

```
/* -----
```

Code for SAS Enterprise Guide By Boyd Owens

DATE: Tuesday, July 14, 2015

PROJECT: SP_Finder

PROJECT Title: SP_Finder.egp

This program uses Natural Language Processing from a Bag of words model to input a IM chat log, clean up and parse text data into data fields, extract variables from the text by user and then run a regression prediction model on each user for being a Child Sexual Predator. Out put is in the form of a YES/NO 1/0 logic table by username.

```
----- */
```

```
/* Conditionally delete set of tables or views, if they exists */
```

```
/* If the member does not exist, then no action is performed */
```

```
%macro _eg_conditional_dropds /parmbuff;
```

```
    %local num;
```

```
    %local stepneeded;
```

```
    %local stepstarted;
```

```
    %local dsname;
```

```
    %local name;
```

```
    %let num=1;
```

```
    /* flags to determine whether a PROC SQL step is needed */
```

```
    /* or even started yet */
```

```
    %let stepneeded=0;
```

```
    %let stepstarted=0;
```

```
    %let dsname= %qscan(&syspbuff,&num,',( )');
```

```
    %do %while(&dsname ne);
```

```
        %let name = %sysfunc(left(&dsname));
```

```
        %if %qsysfunc(exist(&name)) %then %do;
```

```
            %let stepneeded=1;
```

```
            %if (&stepstarted eq 0) %then %do;
```

```
                proc sql;
```

```
                    %let stepstarted=1;
```

```
        %end;
```

```

        drop table &name;
    %end;

    %if %sysfunc(exist(&name,view)) %then %do;
        %let stepneeded=1;
        %if (&stepstarted eq 0) %then %do;
            proc sql;
                %let stepstarted=1;
            %end;
            drop view &name;
        %end;
        %let num=%eval(&num+1);
        %let dsname=%qscan(&syspbuff,&num,',()');
    %end;
    %if &stepstarted %then %do;
        quit;
    %end;
%mend _eg_conditional_dropds;

```

/* Build where clauses from stored process parameters */

```

%macro _eg_WhereParam( COLUMN, PARM, OPERATOR, TYPE=S,
MATCHALL=_ALL_VALUES_, MATCHALL_CLAUSE=1, MAX= , IS_EXPLICIT=0);

    %local q1 q2 sq1 sq2;
    %local isEmpty;
    %local isEqual isNotEqual;
    %local isIn isNotIn;
    %local isString;
    %local isBetween;

    %let isEqual = ("%QUPCASE(&OPERATOR)" = "EQ" OR "&OPERATOR" = "=");
    %let isNotEqual = ("%QUPCASE(&OPERATOR)" = "NE" OR "&OPERATOR" = "<>");
    %let isIn = ("%QUPCASE(&OPERATOR)" = "IN");
    %let isNotIn = ("%QUPCASE(&OPERATOR)" = "NOT IN");
    %let isString = (%QUPCASE(&TYPE) eq S or %QUPCASE(&TYPE) eq STRING );
    %if &isString %then
    %do;
        %let q1=%str(%");
        %let q2=%str(%");
        %let sq1=%str(%');
        %let sq2=%str(%');
    %end;

```

```

%end;
%else %if %QUPCASE(&TYPE) eq D or %QUPCASE(&TYPE) eq DATE %then
%do;
    %let q1=%str("%");
    %let q2=%str("%d");
        %let sq1=%str('%');
    %let sq2=%str('%');
%end;
%else %if %QUPCASE(&TYPE) eq T or %QUPCASE(&TYPE) eq TIME %then
%do;
    %let q1=%str("%");
    %let q2=%str("%t");
        %let sq1=%str('%');
    %let sq2=%str('%');
%end;
%else %if %QUPCASE(&TYPE) eq DT or %QUPCASE(&TYPE) eq DATETIME %then
%do;
    %let q1=%str("%");
    %let q2=%str("%dt");
        %let sq1=%str('%');
    %let sq2=%str('%');
%end;
%else
%do;
    %let q1=;
    %let q2=;
        %let sq1=;
    %let sq2=;
%end;

%if "&PARM" = "" %then %let PARM=&COLUMN;

%let isBetween = ("%QUPCASE(&OPERATOR)"="BETWEEN" or
"%QUPCASE(&OPERATOR)"="NOT BETWEEN");

%if "&MAX" = "" %then %do;
    %let MAX = &parm._MAX;
    %if &isBetween %then %let PARM = &parm._MIN;
%end;

%if not %symexist(&PARM) or (&isBetween and not %symexist(&MAX)) %then %do;
    %if &IS_EXPLICIT=0 %then %do;
        not &MATCHALL_CLAUSE
    
```

```

        %end;
        %else %do;
            not 1=1
        %end;
    %end;
%else %if "%quppercase(&&&PARM)" = "%quppercase(&MATCHALL)" %then %do;
    %if &IS_EXPLICIT=0 %then %do;
        &MATCHALL_CLAUSE
    %end;
    %else %do;
        1=1
    %end;
%end;
%else %if (not %symexist(&PARM._count)) or &isBetween %then %do;
    %let isEmpty = ("%&&&PARM" = "");
    %if (&isEqual AND &isEmpty AND &isString) %then
        &COLUMN is null;
    %else %if (&isNotEqual AND &isEmpty AND &isString) %then
        &COLUMN is not null;
    %else %do;
        %if &IS_EXPLICIT=0 %then %do;
            &COLUMN &OPERATOR %unquote(&q1)&&&PARM%unquote(&q2)
        %end;
        %else %do;
            &COLUMN &OPERATOR
%unquote(%nrstr(&sq1))&&&PARM%unquote(%nrstr(&sq2))
        %end;
        %if &isBetween %then
            AND %unquote(&q1)&&&MAX%unquote(&q2);
        %end;
    %end;
%else
%do;
    %local emptyList;
    %let emptyList = %symexist(&PARM._count);
    %if &emptyList %then %let emptyList = &&&PARM._count = 0;
    %if (&emptyList) %then
    %do;
        %if (&isNotin) %then
            1;
        %else
            0;
    %end;

```

```

        %else %if (&&&PARM._count = 1) %then
%do;
    %let isEmpty = ("&&&PARM" = "");
    %if (&isIn AND &isEmpty AND &isString) %then
        &COLUMN is null;
    %else %if (&isNotIn AND &isEmpty AND &isString) %then
        &COLUMN is not null;
    %else %do;
        %if &IS_EXPLICIT=0 %then %do;
            &COLUMN &OPERATOR (%unquote(&q1)&&&PARM%unquote(&q2))
        %end;
        %else %do;
            &COLUMN &OPERATOR
(%unquote(%nrstr(&sq1))&&&PARM%unquote(%nrstr(&sq2)))
        %end;
    %end;
%end;
%else
%do;
    %local addIsNull addIsNotNull addComma;
    %let addIsNull = %eval(0);
    %let addIsNotNull = %eval(0);
    %let addComma = %eval(0);
    (&COLUMN &OPERATOR (
%do i=1 %to &&&PARM._count;
    %let isEmpty = ("&&&PARM&i" = "");
    %if (&isString AND &isEmpty AND (&isIn OR &isNotIn)) %then
%do;
        %if (&isIn) %then %let addIsNull = 1;
        %else %let addIsNotNull = 1;
    %end;
    %else
%do;
        %if &addComma %then %do;,%end;
            %if &IS_EXPLICIT=0 %then %do;
                %unquote(&q1)&&&PARM&i%unquote(&q2)
            %end;
            %else %do;
                %unquote(%nrstr(&sq1))&&&PARM&i%unquote(%nrstr(&sq2))
            %end;
        %let addComma = %eval(1);
    %end;
%end;)

```

```

    %if &addIsNull %then OR &COLUMN is null;
    %else %if &addIsNotNull %then AND &COLUMN is not null;
    %do;)
    %end;
%end;
%end;
%mend;

/* ----- */
/* MACRO: enterpriseguide          */
/* PURPOSE: define a macro variable */
/* that contains the file system   */
/* path of the WORK library on the */
/* server. Note that different    */
/* logic is needed depending on the */
/* server type.                   */
/* ----- */
%macro enterpriseguide;
%global sasworklocation;
%local tempdsn unique_dsn path;

%if &sysscp=OS %then %do; /* MVS Server */
    %if %sysfunc(getoption(filesystem))=MVS %then %do;
        /* By default, physical file name will be considered a classic MVS data set. */
        /* Construct dsn that will be unique for each concurrent session under a particular
account: */
        filename egtemp '&egtemp' disp=(new,delete); /* create a temporary data set */
        %let tempdsn=%sysfunc(pathname(egtemp)); /* get dsn */
        filename egtemp clear; /* get rid of data set - we only wanted its name */
        %let unique_dsn=".EGTEMP.%substr(&tempdsn, 1, 16).PDSE";
        filename egtmpdir &unique_dsn
            disp=(new,delete,delete) space=(cyl,(5,5,50))
            dsorg=po dsntype=library recfm=vb
            lrecl=8000 blksize=8004 ;
        options fileext=ignore ;
    %end;
    %else %do;
/*
        By default, physical file name will be considered an HFS
(hierarchical file system) file.
*/
        %if "%sysfunc(getoption(filetempdir))"="" %then %do;
            filename egtmpdir '/tmp';

```

```

        %end;
        %else %do;
            filename egtmpdir "%sysfunc(getoption(filetempdir))";
        %end;
    %end;
    %let path=%sysfunc(pathname(egtmpdir));
    %let sasworklocation=%sysfunc(quote(&path));
%end; /* MVS Server */
%else %do;
    %let sasworklocation = "%sysfunc(getoption(work))";
%end;
%if &sysscp=VMS_AXP %then %do; /* Alpha VMS server */
    %let sasworklocation = "%sysfunc(getoption(work))";
%end;
%if &sysscp=CMS %then %do;
    %let path = %sysfunc(getoption(work));
    %let sasworklocation = "%substr(&path, %index(&path,%str( )))";
%end;
%mend enterpriseguide;

%enterpriseguide

/* save the current settings of XPIXELS and YPIXELS */
/* so that they can be restored later          */
%macro _sas_pushchartsize(new_xsize, new_ysize);
    %global _savedxpixels _savedypixels;
    options nonotes;
    proc sql noprint;
        select setting into :_savedxpixels
        from sashelp.vgopt
        where optname eq "XPIXELS";
        select setting into :_savedypixels
        from sashelp.vgopt
        where optname eq "YPIXELS";
    quit;
    options notes;
    GOPTIONS XPIXELS=&new_xsize YPIXELS=&new_ysize;
%mend;

/* restore the previous values for XPIXELS and YPIXELS */
%macro _sas_popchartsize;
    %if %symexist(_savedxpixels) %then %do;
        GOPTIONS XPIXELS=&_savedxpixels YPIXELS=&_savedypixels;
    %end;

```

```

        %symdel _savedxpixels / nowarn;
        %symdel _savedypixels / nowarn;
    %end;
%mend;

ODS PROCTITLE;
OPTIONS DEV=ACTIVEX;
GOPTIONS XPIXELS=0 YPIXELS=0;
FILENAME EGSRX TEMP;
ODS tagsets.sasreport13(ID=EGSRX) FILE=EGSRX
    STYLE=ARRIS1

STYLESHEET=(URL="file:///C:/Users/BoydOw/AppData/Roaming/SAS/SharedSettings/Styles/ARRIS1.css")
    NOGTITLE
    NOGFOOTNOTE
    GPATH=&sasworklocation
    ENCODING=UTF8
    options(rolap="on")
;

/* START OF NODE: Import IM Chat */
%LET _CLIENTTASKLABEL='Import IM Chat';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

GOPTIONS ACCESSIBLE;
/* -----
Code by Boyd Owens

Tuesday, July 14, 2015 at 1:33:59 PM

```

Source file: E:\ChatLog.txt
Server: Local File System

Output data: WORK.ChatLog
Server: SASApp

Note: In preparation for running the following code, the Import Data wizard has used internal routines to transfer the source data file from the local file system to SASApp. There is no SAS code

available to represent this action.

----- */

```
DATA WORK.ChatLog;
  LENGTH
    F1          $ 513 ;
  FORMAT
    F1          $CHAR513. ;
  INFORMAT
    F1          $CHAR513. ;
  INFILE
    '/user_projects_production/sasworkspace/SAS_work2748000072FA_qusasprdapp1.arrisi.com/#
LN00014'
    LRECL=32767
    ENCODING="LATIN1"
    DLM='09'x
    MISSOVER
    DSD ;
  INPUT
    F1          : $CHAR513. ;
RUN;
```

```
GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: Parse Data Fields */
%LET _CLIENTTASKLABEL='Parse Data Fields';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
%_eg_conditional_dropds(WORK.QUERY_FOR_CHATLOG);
```

```
PROC SQL;
  CREATE TABLE WORK.QUERY_FOR_CHATLOG AS
  SELECT t1.F1,
    /* NAME */
    (STRIP(SUBSTR(t1.F1,1,(INDEX(t1.F1," ")))) LABEL="NAME" AS NAME,
```

```
/* DATETIME */
  (SUBSTR(t1.F1, INDEX(t1.F1,"")+1, 20)) LABEL="DATETIME" AS DATETIME,
/* MESSAGE */
  (STRIP(SUBSTR(t1.F1,(INDEX(t1.F1,"")+2)))) LABEL="MESSAGE" AS MESSAGE
FROM WORK.CHATLOG t1;
QUIT;
```

```
GOPTIONS NOACCESSIBLE;
```

```
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: DATE-TIME CONVERSION */
%LET _CLIENTTASKLABEL='DATE-TIME CONVERSION';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
%_eg_conditional_dropds(WORK.QUERY_FOR_CHATLOG_0000);
```

```
PROC SQL;
  CREATE TABLE WORK.QUERY_FOR_CHATLOG_0000 AS
  SELECT t1.F1,
         t1.NAME,
         t1.DATETIME,
/* DATE */
         (INPUT(SUBSTR(t1.DATETIME, 1, 8), MMDDYY10.)) FORMAT=MMDDYY10.
  LABEL="DATE" AS DATE,
/* TIME */
         (INPUT(SUBSTR(t1.DATETIME, 10, 8), IS8601TM8.)) FORMAT=IS8601TM8.
  LABEL="TIME" AS TIME,
/* SOURCE */
         ("Calibration") LABEL="SOURCE" AS SOURCE,
         t1.MESSAGE
  FROM WORK.QUERY_FOR_CHATLOG t1;
QUIT;
```

```
GOPTIONS NOACCESSIBLE;
```

```
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: Import Data (SentiWordNet_B.xlsx[SentiWordB]) */
%LET _CLIENTTASKLABEL='Import Data (SentiWordNet_B.xlsx[SentiWordB])';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

GOPTIONS ACCESSIBLE;

```
/* -----
Code By Boyd Owens
```

Tuesday, July 14, 2015 at 1:34:22 PM
Import Sentiwordnet file.

Source file:
C:\Documents\Boyd\SentiWordNet\SentiWordNet_B.xlsx
Server: Local File System

Output data: WORK.SentiWordNet_B
Server: SASApp

Note: In preparation for running the following code, the Import
Data wizard has used internal routines to transfer the source data
file from the local file system to SASApp. There is no SAS code
available to represent this action.

```
----- */
```

```
/* -----
This DATA step reads the data values from a temporary text file
created by the Import Data wizard. The values within the temporary
text file were extracted from the Excel source file.
----- */
```

DATA WORK.SentiWordNet_B;

LENGTH

POS	\$ 1
ID	8
PosScore	8

```

NegScore      8
ObjScore      8
NetScore      8
PosFlag       8
NegFlag       8
Term_Underscore $ 71
Term_Space    $ 71 ;
FORMAT
  POS          $CHAR1.
  ID           BEST12.
  PosScore     BEST12.
  NegScore     BEST12.
  ObjScore     BEST12.
  NetScore     BEST12.
  PosFlag      BEST12.
  NegFlag      BEST12.
  Term_Underscore $CHAR71.
  Term_Space    $CHAR71. ;
INFORMAT
  POS          $CHAR1.
  ID           BEST12.
  PosScore     BEST12.
  NegScore     BEST12.
  ObjScore     BEST12.
  NetScore     BEST12.
  PosFlag      BEST12.
  NegFlag      BEST12.
  Term_Underscore $CHAR71.
  Term_Space    $CHAR71. ;
INFILE
'/user_projects_production/sasworkspace/SAS_work2748000072FA_qusasprdapp1.arrisi.com/#
LN00019'
  LRECL=164
  ENCODING="LATIN1"
  TERMSTR=CRLF
  DLM='7F'x
  MISSOVER
  DSD ;
INPUT
  POS          : $CHAR1.
  ID           : BEST32.
  PosScore     : BEST32.
  NegScore     : BEST32.

```

```
ObjScore      : BEST32.
NetScore      : BEST32.
PosFlag       : BEST32.
NegFlag       : BEST32.
Term_Underscore : $CHAR71.
Term_Space    : $CHAR71. ;
RUN;
```

```
GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: Emoticon */
%LET _CLIENTTASKLABEL='Emoticon';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
%LET _SASPROGRAMFILE=;
```

```
GOPTIONS ACCESSIBLE;
```

```
/*
```

emoticon: a macro to replace common emoticons, acronyms, and initialisms with text. It is designed to process text comments prior to text/sentiment analysis.

To call the macro:

```
%emoticon(comment=name_of_character_variable_containing_comments,
set= name_of_dataset_containing_comments);
```

```
*/
```

```
%macro emoticon (comment=, set=);
```

```
data work.transformed_&set.;
```

```
set &set.;
```

```
/*emoticons, replacement with leading and trailing blanks*/
```

```
&comment.=tranwrd(&comment., ">:]", " smile ");
```

```
&comment.=tranwrd(&comment., "(-:", " smile ");
```

```
&comment.=tranwrd(&comment., ":-)", " smile ");
```

```
&comment.=tranwrd(&comment., ":", " smile ");
```

```
&comment.=tranwrd(&comment., ":o)", " smile ");
```

```
&comment.=tranwrd(&comment., ":]", " smile ");
```

```
&comment.=tranwrd(&comment., ":3", " smile ");
```

```
&comment.=tranwrd(&comment., ":c)", " smile ");
```

```

&comment.=tranwrd(&comment., ">", " smile ");
&comment.=tranwrd(&comment., "=]", " smile ");
&comment.=tranwrd(&comment., "8)", " smile ");
&comment.=tranwrd(&comment., "=)", " smile ");
&comment.=tranwrd(&comment., ":}", " smile ");
&comment.=tranwrd(&comment., ".^)", " smile ");
&comment.=tranwrd(&comment., ":-)", " smile ");
&comment.=tranwrd(&comment., "#:-)", " smile ");
&comment.=tranwrd(&comment., ":-)8", " smile ");
&comment.=tranwrd(&comment., "d:-)", " smile ");
&comment.=tranwrd(&comment., "&:-)", " smile ");
&comment.=tranwrd(&comment., "8-)", " smile ");
&comment.=tranwrd(&comment., "{:-)", " smile ");
&comment.=tranwrd(&comment., "(-)", " smile ");
&comment.=tranwrd(&comment., ":-( )", " smile ");
&comment.=tranwrd(&comment., "C|:-)", " smile ");
&comment.=tranwrd(&comment., "[::-)", " smile ");
&comment.=tranwrd(&comment., ">:D", " laugh ");
&comment.=tranwrd(&comment., ":-D", " laugh ");
&comment.=tranwrd(&comment., ":D", " laugh ");
&comment.=tranwrd(&comment., "8-D", " laugh ");
&comment.=tranwrd(&comment., "8D", " laugh ");
&comment.=tranwrd(&comment., "x-D", " laugh ");
&comment.=tranwrd(&comment., "xD", " laugh ");
&comment.=tranwrd(&comment., "X-D", " laugh ");
&comment.=tranwrd(&comment., "XD", " laugh ");
&comment.=tranwrd(&comment., "=-D", " laugh ");
&comment.=tranwrd(&comment., "=D", " laugh ");
&comment.=tranwrd(&comment., "=-3", " laugh ");
&comment.=tranwrd(&comment., "=3", " laugh ");
&comment.=tranwrd(&comment., "B^D", " laugh ");
&comment.=tranwrd(&comment., ":-))", " happy ");
&comment.=tranwrd(&comment., ">:[", " sad ");
&comment.=tranwrd(&comment., ":-(", " sad ");
&comment.=tranwrd(&comment., ":(", " sad ");
&comment.=tranwrd(&comment., ":-c", " sad ");
&comment.=tranwrd(&comment., ":c", " sad ");
&comment.=tranwrd(&comment., ":-<", " sad ");
Data Miningand Text Analytics SASGlobalForum2013
&comment.=tranwrd(&comment., ":-<", " sad ");
&comment.=tranwrd(&comment., ":-[", " sad ");
&comment.=tranwrd(&comment., ":[", " sad ");
&comment.=tranwrd(&comment., ":{", " sad ");

```

&comment.=tranwrd(&comment., ":-||", " angry ");
&comment.=tranwrd(&comment., ":@", " angry ");
&comment.=tranwrd(&comment., ">:-(", " angry ");
&comment.=tranwrd(&comment., "QQ", " crying ");
&comment.=tranwrd(&comment., "D:<", " disgust or sadness ");
&comment.=tranwrd(&comment., "D:", " disgust or sadness ");
&comment.=tranwrd(&comment., "D8", " disgust or sadness ");
&comment.=tranwrd(&comment., "D;", " disgust or sadness ");
&comment.=tranwrd(&comment., "D=", " disgust or sadness ");
&comment.=tranwrd(&comment., "DX", " disgust or sadness ");
&comment.=tranwrd(&comment., "v.v", " disgust or sadness ");
&comment.=tranwrd(&comment., ">:o", " surprise ");
&comment.=tranwrd(&comment., ">:O", " surprise ");
&comment.=tranwrd(&comment., ":-O", " surprise ");
&comment.=tranwrd(&comment., ":O", " surprise ");
&comment.=tranwrd(&comment., "°o°", " surprise ");
&comment.=tranwrd(&comment., "°O°", " surprise ");
&comment.=tranwrd(&comment., ":O", " surprise ");
&comment.=tranwrd(&comment., "o_O", " surprise ");
&comment.=tranwrd(&comment., "o_0", " surprise ");
&comment.=tranwrd(&comment., "o.O", " surprise ");
&comment.=tranwrd(&comment., "8-0", " surprise ");
&comment.=tranwrd(&comment., ":-<>", " surprise ");
&comment.=tranwrd(&comment., ".*", " kiss ");
&comment.=tranwrd(&comment., ".*^*", " kiss ");
&comment.=tranwrd(&comment., ">:]", " wink ");
&comment.=tranwrd(&comment., ";-)", " wink ");
&comment.=tranwrd(&comment., ";)", " wink ");
&comment.=tranwrd(&comment., ".*-)", " wink ");
&comment.=tranwrd(&comment., ".*)", " wink ");
&comment.=tranwrd(&comment., ";-]", " wink ");
&comment.=tranwrd(&comment., ";]", " wink ");
&comment.=tranwrd(&comment., ";D", " wink ");
&comment.=tranwrd(&comment., ";^)", " wink ");
&comment.=tranwrd(&comment., ":-", " wink ");
&comment.=tranwrd(&comment., ">:P", " playfully sticking out tongue ");
&comment.=tranwrd(&comment., ":-P", " playfully sticking out tongue ");
&comment.=tranwrd(&comment., ":P", " playfully sticking out tongue ");
&comment.=tranwrd(&comment., "X-P", " playfully sticking out tongue ");
&comment.=tranwrd(&comment., "x-p", " playfully sticking out tongue ");
&comment.=tranwrd(&comment., ":-p", " playfully sticking out tongue ");
&comment.=tranwrd(&comment., ":p", " playfully sticking out tongue ");
&comment.=tranwrd(&comment., "=p", " playfully sticking out tongue ");

```

&comment.=tranwrd(&comment., ":-b", " playfully sticking out tongue ");
&comment.=tranwrd(&comment., ":b", " playfully sticking out tongue ");
&comment.=tranwrd(&comment., ":-7", " tongue in cheek or sarcasm ");
&comment.=tranwrd(&comment., ">:\", " annoyed ");
&comment.=tranwrd(&comment., ">:/", " annoyed ");
&comment.=tranwrd(&comment., ":-\\"", " annoyed ");
&comment.=tranwrd(&comment., ":-/", " annoyed ");
&comment.=tranwrd(&comment., ":-.", " annoyed ");
&comment.=tranwrd(&comment., ":-/", " annoyed ");
&comment.=tranwrd(&comment., ":\\"", " annoyed ");
&comment.=tranwrd(&comment., "=/", " annoyed ");
&comment.=tranwrd(&comment., "=\\", " annoyed ");
&comment.=tranwrd(&comment., ":S", " annoyed ");
&comment.=tranwrd(&comment., ">.<", " annoyed ");
&comment.=tranwrd(&comment., ":-|", " determined or straight face ");
&comment.=tranwrd(&comment., ":$", " embarrassed ");
Data Miningand Text Analytics SASGlobalForum2013
&comment.=tranwrd(&comment., ">:X", " not speaking ");
&comment.=tranwrd(&comment., ":-X", " not speaking ");
&comment.=tranwrd(&comment., ":X", " not speaking ");
&comment.=tranwrd(&comment., "O:-)", " angel or innocent ");
&comment.=tranwrd(&comment., "O:-3", " angel or innocent ");
&comment.=tranwrd(&comment., "O:3", " angel or innocent ");
&comment.=tranwrd(&comment., "O:-)", " angel or innocent ");
&comment.=tranwrd(&comment., "O:) ", " angel or innocent ");
&comment.=tranwrd(&comment., "O:^)", " angel or innocent ");
&comment.=tranwrd(&comment., ">:)", " evil ");
&comment.=tranwrd(&comment., ">:)", " evil ");
&comment.=tranwrd(&comment., ">:-)", " evil ");
&comment.=tranwrd(&comment., "}:-) ", " devilish ");
&comment.=tranwrd(&comment., "}:)", " devilish ");
&comment.=tranwrd(&comment., "3:-)", " devilish ");
&comment.=tranwrd(&comment., "3:) ", " devilish ");
&comment.=tranwrd(&comment., "o\o", " high five ");
&comment.=tranwrd(&comment., "^5", " high five ");
&comment.=tranwrd(&comment., "|-O", " bored ");
&comment.=tranwrd(&comment., ":-&", " tongue tied ");
&comment.=tranwrd(&comment., ":&", " tongue tied ");
&comment.=tranwrd(&comment., "#-)", " confused ");
&comment.=tranwrd(&comment., "%-)", " confused ");
&comment.=tranwrd(&comment., "%)", " confused ");
&comment.=tranwrd(&comment., ":-####", " sick ");
&comment.=tranwrd(&comment., "####", " sick ");

```

```

&comment.=tranwrd(&comment., "<:-|", " dunce ");
&comment.=tranwrd(&comment., "<*)"))-{", " fish ");
&comment.=tranwrd(&comment., "><(((*)>", " fish ");
&comment.=tranwrd(&comment., "><>", " fish ");
&comment.=tranwrd(&comment., "<3", " heart ");
&comment.=tranwrd(&comment., "</3", " broken heart ");
&comment.=tranwrd(&comment., ":-o zz", "bored ");
&comment.=tranwrd(&comment., ": @", " shouting ");
&comment.=tranwrd(&comment., ":- (0)", " shouting ");
&comment.=tranwrd(&comment., "(-.-)", " sleeping ");
&comment.=tranwrd(&comment., "|-l", " sleeping ");
&comment.=tranwrd(&comment., "|-O", " snoring ");
&comment.=tranwrd(&comment., ":-v", " talking ");
/*abbreviations with leading and trailing blanks to prevent
replacing a portion of an existing word. */
&comment.=tranwrd(&comment., " @TEOTD ", " At the end of the day ");
&comment.=tranwrd(&comment., " 143 ", " I love you ");
&comment.=tranwrd(&comment., " 2G2BT ", " Too good to be true ");
&comment.=tranwrd(&comment., " 404 ", " I do not know ");
&comment.=tranwrd(&comment., " 4EAE ", " Forever and ever ");
&comment.=tranwrd(&comment., " A3 ", " Anytime, anywhere, anyplace ");
&comment.=tranwrd(&comment., " AAF ", " As a matter of fact ");
&comment.=tranwrd(&comment., " AAK ", " Asleep at keyboard ");
&comment.=tranwrd(&comment., " AAMOI ", " As a matter of interest ");
&comment.=tranwrd(&comment., " AAP ", " Always a pleasure ");
&comment.=tranwrd(&comment., " AAR ", " At any rate ");
&comment.=tranwrd(&comment., " AAS ", " Alive and smiling ");
&comment.=tranwrd(&comment., " ACK ", " Acknowledge ");
&comment.=tranwrd(&comment., " ADR ", " Address ");
&comment.=tranwrd(&comment., " AEAP ", " As early as possible ");
&comment.=tranwrd(&comment., " AFAIK ", " As far as I know ");
&comment.=tranwrd(&comment., " AFK ", " Away from keyboard ");
&comment.=tranwrd(&comment., " AFPOE ", " A fresh pair of eyes ");
&comment.=tranwrd(&comment., " AIGHT ", " Alright ");
&comment.=tranwrd(&comment., " AISB ", " As it should be ");
&comment.=tranwrd(&comment., " AKA ", " Also known as ");
Data Miningand Text Analytics SASGlobalForum2013
&comment.=tranwrd(&comment., " ALCON ", " All concerned ");
&comment.=tranwrd(&comment., " AML ", " All my love ");
&comment.=tranwrd(&comment., " AOTA ", " All of the above ");
&comment.=tranwrd(&comment., " ASAP ", " As soon as possible ");
&comment.=tranwrd(&comment., " ATM ", " At the moment ");
&comment.=tranwrd(&comment., " AWOL ", " Away without leaving ");

```

&comment.=tranwrd(&comment.," AYES " , " At your earliest convenience ");
&comment.=tranwrd(&comment.," AYOR " , " At your own risk ");
&comment.=tranwrd(&comment.," AYSOS " , " Are you stupid or something ");
&comment.=tranwrd(&comment.," AYTM " , " And you are telling me this because ");
&comment.=tranwrd(&comment.," B/F " , " Boyfriend ");
&comment.=tranwrd(&comment.," B4 " , " Before ");
&comment.=tranwrd(&comment.," B4N " , " Bye for now ");
&comment.=tranwrd(&comment.," BAK " , " Back at keyboard ");
&comment.=tranwrd(&comment.," BAU " , " Business as usual ");
&comment.=tranwrd(&comment.," BB " , " Be back ");
&comment.=tranwrd(&comment.," BBIAF " , " Be back in a few ");
&comment.=tranwrd(&comment.," BBIAM " , " Be back in a minute ");
&comment.=tranwrd(&comment.," BBIAS " , " Be back in a sec ");
&comment.=tranwrd(&comment.," BBL " , " Be back later ");
&comment.=tranwrd(&comment.," BBQ " , " Be back quickly ");
&comment.=tranwrd(&comment.," BBS " , " Be back soon ");
&comment.=tranwrd(&comment.," BBT " , " Be back tomorrow ");
&comment.=tranwrd(&comment.," BC " , " Because ");
&comment.=tranwrd(&comment.," BCNU " , " Be seeing you ");
&comment.=tranwrd(&comment.," BCOS " , " Because ");
&comment.=tranwrd(&comment.," BF " , " Best friend ");
&comment.=tranwrd(&comment.," BDN " , " Big damn number ");
&comment.=tranwrd(&comment.," BFN " , " Bye for now ");
&comment.=tranwrd(&comment.," BG " , " Big grin ");
&comment.=tranwrd(&comment.," BGWM " , " Be gentle with me ");
&comment.=tranwrd(&comment.," BIOYN " , " Blow it out your nose ");
&comment.=tranwrd(&comment.," BLNT " , " Better luck next time ");
&comment.=tranwrd(&comment.," BM&Y " , " Between me and you ");
&comment.=tranwrd(&comment.," BOL " , " Best of luck ");
&comment.=tranwrd(&comment.," BPLM " , " Big person little mind ");
&comment.=tranwrd(&comment.," BR " , " Best regards ");
&comment.=tranwrd(&comment.," BRB " , " Be right back ");
&comment.=tranwrd(&comment.," BRT " , " Be right there ");
&comment.=tranwrd(&comment.," BTA " , " But then again ");
&comment.=tranwrd(&comment.," BTDT " , " Been there, done that ");
&comment.=tranwrd(&comment.," BTW " , " By the way ");
&comment.=tranwrd(&comment.," CD9 " , " Parents are around ");
&comment.=tranwrd(&comment.," CHK " , " Check ");
&comment.=tranwrd(&comment.," CMIW " , " Correct me if I am wrong ");
&comment.=tranwrd(&comment.," CMON " , " Come on ");
&comment.=tranwrd(&comment.," COB " , " Close of business ");
&comment.=tranwrd(&comment.," COS " , " Because ");
&comment.=tranwrd(&comment.," C/P " , " Cross post ");

&comment.=tranwrd(&comment.," CR8 " ," Create ");
 &comment.=tranwrd(&comment.," CRB " ," Come right back ");
 &comment.=tranwrd(&comment.," CRBT " ," Crying really big tears ");
 &comment.=tranwrd(&comment.," CU " ," See you ");
 &comment.=tranwrd(&comment.," CUA " ," See you around ");
 &comment.=tranwrd(&comment.," CUL " ," See you later ");
 &comment.=tranwrd(&comment.," CUL8R " ," See you later ");
 &comment.=tranwrd(&comment.," CWYL " ," Chat with you later ");
 &comment.=tranwrd(&comment.," CYA " ," See ya ");
 &comment.=tranwrd(&comment.," CYO " ," See you online ");
 &comment.=tranwrd(&comment.," D/L " ," Download ");
 &comment.=tranwrd(&comment.," DL " ," Download ");
 &comment.=tranwrd(&comment.," DEGT " ," Do not even go there ");
 &comment.=tranwrd(&comment.," DIKU " ," Do I know you? ");
 Data Miningand Text Analytics SASGlobalForum2013
 &comment.=tranwrd(&comment.," DQMOT " ," Do not quote me on this ");
 &comment.=tranwrd(&comment.," DTS " ," Do not think so ");
 &comment.=tranwrd(&comment.," DV8 " ," Deviate ");
 &comment.=tranwrd(&comment.," DYK " ," Did you know ");
 &comment.=tranwrd(&comment.," EBKAC " ," Error between keyboard and chair ");
 &comment.=tranwrd(&comment.," EF4T " ," Effort ");
 &comment.=tranwrd(&comment.," EG " ," Evil grin ");
 &comment.=tranwrd(&comment.," EMA " ," E-mail address ");
 &comment.=tranwrd(&comment.," EMFBI " ," Excuse me for butting in ");
 &comment.=tranwrd(&comment.," EMSG " ," E-mail message ");
 &comment.=tranwrd(&comment.," ENUF " ," Enough ");
 &comment.=tranwrd(&comment.," EOD " ," End of day ");
 &comment.=tranwrd(&comment.," EOM " ," End of message ");
 &comment.=tranwrd(&comment.," EVA " ," Ever ");
 &comment.=tranwrd(&comment.," EZY " ," Easy ");
 &comment.=tranwrd(&comment.," F2F " ," Face to face ");
 &comment.=tranwrd(&comment.," F2T " ," Free to talk ");
 &comment.=tranwrd(&comment.," FBM " ," Fine by me ");
 &comment.=tranwrd(&comment.," FC " ," Fingers crossed ");
 &comment.=tranwrd(&comment.," FICCL " ," Frankly I could not care a less ");
 &comment.=tranwrd(&comment.," FOMCL " ," Falling off my chair laughing ");
 &comment.=tranwrd(&comment.," FITB " ," Fill in the blank ");
 &comment.=tranwrd(&comment.," FRT " ," For real though ");
 &comment.=tranwrd(&comment.," FWIW " ," For what it is worth ");
 &comment.=tranwrd(&comment.," FYEO " ," For your eyes only ");
 &comment.=tranwrd(&comment.," FYI " ," For your information ");
 &comment.=tranwrd(&comment.," G " ," Grin ");
 &comment.=tranwrd(&comment.," G/F " ," Girlfriend ");

```

&comment.=tranwrd(&comment.," G2CU " ," Good to see you ");
&comment.=tranwrd(&comment.," G2G " ," Got to go ");
&comment.=tranwrd(&comment.," G2R " ," Got to run ");
&comment.=tranwrd(&comment.," G9 " ," Genius ");
&comment.=tranwrd(&comment.," GA " ," Go ahead ");
&comment.=tranwrd(&comment.," GAL " ," Get a life ");
&comment.=tranwrd(&comment.," GB " ," Goodbye ");
&comment.=tranwrd(&comment.," GBU " ," God bless you ");
&comment.=tranwrd(&comment.," GDR " ," Grinning, ducking, and running ");
&comment.=tranwrd(&comment.," GD/R " ," Grinning, ducking, and running ");
&comment.=tranwrd(&comment.," GFI " ," Go for it ");
&comment.=tranwrd(&comment.," GG " ," Gotta Go or Good Game ");
&comment.=tranwrd(&comment.," GIAR " ," Give it a rest ");
&comment.=tranwrd(&comment.," GIGO " ," Garbage in, garbage out ");
&comment.=tranwrd(&comment.," GL " ," Good luck ");
&comment.=tranwrd(&comment.," GL/HF " ," Good luck, have fun ");
&comment.=tranwrd(&comment.," GLNG " ," Good luck next game ");
&comment.=tranwrd(&comment.," GMTA " ," Great minds think alike ");
&comment.=tranwrd(&comment.," GOI " ," Get over it ");
&comment.=tranwrd(&comment.," GOL " ," Giggling out loud ");
&comment.=tranwrd(&comment.," GR8 " ," Great ");
&comment.=tranwrd(&comment.," GR&D " ," Grinning, running and ducking ");
&comment.=tranwrd(&comment.," GT " ," Good try ");
&comment.=tranwrd(&comment.," GTG " ," Got to go ");
&comment.=tranwrd(&comment.," GTRM " ," Going to read mail ");
&comment.=tranwrd(&comment.," H&K " ," Hugs & kisses ");
&comment.=tranwrd(&comment.," H2CUS " ," Hope to see you soon ");
&comment.=tranwrd(&comment.," H8 " ," Hate ");
&comment.=tranwrd(&comment.," HAGN " ," Have a good night ");
&comment.=tranwrd(&comment.," HAGO " ," Have a good one ");
&comment.=tranwrd(&comment.," HF " ," Have fun ");
&comment.=tranwrd(&comment.," HHIS " ," Head hanging in shame ");
&comment.=tranwrd(&comment.," HOAS " ," Hold on a second ");
&comment.=tranwrd(&comment.," HRU " ," How are you? ");
&comment.=tranwrd(&comment.," HTH " ," Hope this helps ");
Data Miningand Text Analytics SASGlobalForum2013
&comment.=tranwrd(&comment.," HV " ," Have ");
&comment.=tranwrd(&comment.," IAC " ," In any case ");
&comment.=tranwrd(&comment.," IANAL " ," I am not a lawyer ");
&comment.=tranwrd(&comment.," IB " ," I am back ");
&comment.=tranwrd(&comment.," IC " ," I see ");
&comment.=tranwrd(&comment.," ICBW " ," It could be worse ");
&comment.=tranwrd(&comment.," IDK " ," I do not know ");

```

&comment.=tranwrd(&comment.," IDTS " ," I do not think so ");
&comment.=tranwrd(&comment.," IDUNNO " ," I do not know ");
&comment.=tranwrd(&comment.," IG2R " ," I got to run ");
&comment.=tranwrd(&comment.," IIRC " ," If I remember correctly ");
&comment.=tranwrd(&comment.," ILBL8 " ," I will be late ");
&comment.=tranwrd(&comment.," ILU " ," I love you ");
&comment.=tranwrd(&comment.," ILY " ," I love you ");
&comment.=tranwrd(&comment.," IM " ," Instant message ");
&comment.=tranwrd(&comment.," IMHO " ," In my humble opinion ");
&comment.=tranwrd(&comment.," IMNSHO " ," In my not so humble opinion ");
&comment.=tranwrd(&comment.," IMO " ," In my opinion ");
&comment.=tranwrd(&comment.," IMS " ," I am sorry ");
&comment.=tranwrd(&comment.," INAL " ," I am not a lawyer ");
&comment.=tranwrd(&comment.," IOW " ," In other words ");
&comment.=tranwrd(&comment.," IRL " ," In real life ");
&comment.=tranwrd(&comment.," IRMC " ," I rest my case ");
&comment.=tranwrd(&comment.," IUSS " ," If you say so ");
&comment.=tranwrd(&comment.," IYKWIM " ," If you know what I mean ");
&comment.=tranwrd(&comment.," IYO " ," In your opinion ");
&comment.=tranwrd(&comment.," IYSS " ," If you say so ");
&comment.=tranwrd(&comment.," j00r " ," Your ");
&comment.=tranwrd(&comment.," JAC " ," Just a sec ");
&comment.=tranwrd(&comment.," JIC " ," Just in case ");
&comment.=tranwrd(&comment.," JJA " ," Just joking around ");
&comment.=tranwrd(&comment.," JK " ," Just kidding ");
&comment.=tranwrd(&comment.," JMO " ," Just my opinion ");
&comment.=tranwrd(&comment.," JP " ," Just playing ");
&comment.=tranwrd(&comment.," K8T " ," Katie ");
&comment.=tranwrd(&comment.," k/b " ," Keyboard ");
&comment.=tranwrd(&comment.," KB " ," Keyboard ");
&comment.=tranwrd(&comment.," KIT " ," Keep in touch ");
&comment.=tranwrd(&comment.," KOC " ," Kiss on cheek ");
&comment.=tranwrd(&comment.," KOTC " ," Kiss on the cheek ");
&comment.=tranwrd(&comment.," KOTL " ," Kiss on the lips ");
&comment.=tranwrd(&comment.," KNIM " ," Know what I mean? ");
&comment.=tranwrd(&comment.," l33t " ," elite ");
&comment.=tranwrd(&comment.," L8R " ," Later ");
&comment.=tranwrd(&comment.," LD " ," Later, dude / Long distance ");
&comment.=tranwrd(&comment.," LERK " ," leaving easy reach of keyboard ");
&comment.=tranwrd(&comment.," LOL " ," Laughing out loud ");
&comment.=tranwrd(&comment.," LTM " ," Laugh to myself ");
&comment.=tranwrd(&comment.," LTNS " ," Long time no see ");
&comment.=tranwrd(&comment.," LYLAS " ," Love you like a sis ");

```

&comment.=tranwrd(&comment.," M8 " ," Mate ");
&comment.=tranwrd(&comment.," MFI " ," Mad for it ");
&comment.=tranwrd(&comment.," MoS " ," Mother over shoulder ");
&comment.=tranwrd(&comment.," MSG " ," Message ");
&comment.=tranwrd(&comment.," MTF " ," More to follow ");
&comment.=tranwrd(&comment.," MTFBWU " ," May the force be with you ");
&comment.=tranwrd(&comment.," MUSM " ," Miss you so much ");
&comment.=tranwrd(&comment.," MYOB " ," Mind your own business ");
&comment.=tranwrd(&comment.," n00b " ," Newbie ");
&comment.=tranwrd(&comment.," N1 " ," Nice one ");
&comment.=tranwrd(&comment.," NBD " ," No big deal ");
&comment.=tranwrd(&comment.," NE " ," Any ");
&comment.=tranwrd(&comment.," NE1 " ," Anyone ");
Data Miningand Text Analytics SASGlobalForum2013
&comment.=tranwrd(&comment.," NFM " ," None for me or Not for me ");
&comment.=tranwrd(&comment.," NIMBY " ," Not in my back yard ");
&comment.=tranwrd(&comment.," NLT " ," No later than ");
&comment.=tranwrd(&comment.," NM " ," Nothing much or Never mind ");
&comment.=tranwrd(&comment.," NMH " ," Not much here ");
&comment.=tranwrd(&comment.," NO1 " ," No one ");
&comment.=tranwrd(&comment.," NOYB " ," None of your business ");
&comment.=tranwrd(&comment.," NP " ," No problem ");
&comment.=tranwrd(&comment.," NRN " ," No response or reply necessary ");
&comment.=tranwrd(&comment.," NVM " ," Never mind ");
&comment.=tranwrd(&comment.," NW " ," No way ");
&comment.=tranwrd(&comment.," NW) " ," No way out ");
&comment.=tranwrd(&comment.," OIC " ," Oh I see ");
&comment.=tranwrd(&comment.," OMG " ," Oh my God ");
&comment.=tranwrd(&comment.," OMW " ," On my way ");
&comment.=tranwrd(&comment.," OO " ," Over and out ");
&comment.=tranwrd(&comment.," OOH " ," Out of here ");
&comment.=tranwrd(&comment.," OOTD " ," One of these days ");
&comment.=tranwrd(&comment.," OP " ," On phone ");
&comment.=tranwrd(&comment.," OTB " ," Off to bed ");
&comment.=tranwrd(&comment.," OTL " ," Out to lunch ");
&comment.=tranwrd(&comment.," OTOH " ," On the other hand ");
&comment.=tranwrd(&comment.," OTT " ," Over the top ");
&comment.=tranwrd(&comment.," OTTOMH " ," Off the top of my head ");
&comment.=tranwrd(&comment.," OTW " ," Off to work ");
&comment.=tranwrd(&comment.," OVA " ," Over ");
&comment.=tranwrd(&comment.," PCM " ," Please call me ");
&comment.=tranwrd(&comment.," PDQ " ," Pretty darn quick ");
&comment.=tranwrd(&comment.," PLMK " ," Please let me know ");

```

&comment.=tranwrd(&comment.," PLS " ," Please ");
 &comment.=tranwrd(&comment.," PLZ " ," Please ");
 &comment.=tranwrd(&comment.," PM " ," Private Message ");
 &comment.=tranwrd(&comment.," PMFI " ," Pardon me for interrupting ");
 &comment.=tranwrd(&comment.," PMFJI " ," Pardon me for jumping in ");
 &comment.=tranwrd(&comment.," POAHF " ," Put on a happy face ");
 &comment.=tranwrd(&comment.," POS " ," Parent over shoulder ");
 &comment.=tranwrd(&comment.," PPL " ," People ");
 &comment.=tranwrd(&comment.," PROLLY " ," Probably ");
 &comment.=tranwrd(&comment.," PRT " ," Party ");
 &comment.=tranwrd(&comment.," PRW " ," People or parents are watching ");
 &comment.=tranwrd(&comment.," PTL " ," Praise the Lord ");
 &comment.=tranwrd(&comment.," PTMM " ," Please tell me more ");
 &comment.=tranwrd(&comment.," PXT " ," Please explain that ");
 &comment.=tranwrd(&comment.," PU " ," That stinks! ");
 &comment.=tranwrd(&comment.," Q " ," Queue ");
 &comment.=tranwrd(&comment.," QIK " ," Quick ");
 &comment.=tranwrd(&comment.," QT " ," Cutie ");
 &comment.=tranwrd(&comment.," RL " ," Real life ");
 &comment.=tranwrd(&comment.," RP " ," Role play ");
 &comment.=tranwrd(&comment.," RME " ," Rolling my eyes ");
 &comment.=tranwrd(&comment.," ROFL " ," Rolling on floor laughing ");
 &comment.=tranwrd(&comment.," ROTFL " ," Rolling on the floor laughing ");
 &comment.=tranwrd(&comment.," ROTFLUTS " ," Rolling on the floor laughing unable to speak ");
 &comment.=tranwrd(&comment.," RSN " ," Real soon now ");
 &comment.=tranwrd(&comment.," RTFM " ," Read the manual disgust");
 &comment.=tranwrd(&comment.," RUOK " ," Are you okay ");
 &comment.=tranwrd(&comment.," SAL " ," Such a laugh ");
 &comment.=tranwrd(&comment.," SC " ," Stay cool ");
 &comment.=tranwrd(&comment.," SETE " ," Smiling ear to ear ");
 &comment.=tranwrd(&comment.," SICNR " ," Sorry I could not resist ");
 &comment.=tranwrd(&comment.," SIG2R " ," Sorry I got to run ");
 &comment.=tranwrd(&comment.," SMHID " ," Scratching my head in disbelief ");
 Data Miningand Text Analytics SASGlobalForum2013
 &comment.=tranwrd(&comment.," SNAFU " ," Situation normal all fouled up ");
 &comment.=tranwrd(&comment.," SOL " ," Sooner or later ");
 &comment.=tranwrd(&comment.," SOMY " ," Sick of me yet ");
 &comment.=tranwrd(&comment.," SOTMG " ," Short of time must go ");
 &comment.=tranwrd(&comment.," SPK " ," Speak ");
 &comment.=tranwrd(&comment.," SPST " ," Same place same time ");
 &comment.=tranwrd(&comment.," SRY " ," Sorry ");
 &comment.=tranwrd(&comment.," SS " ," So sorry ");

&comment.=tranwrd(&comment.," SSDD " ," Same stuff different day ");
&comment.=tranwrd(&comment.," SSINF " ," So stupid it is not funny ");
&comment.=tranwrd(&comment.," STW " ," Search the Web ");
&comment.=tranwrd(&comment.," SUITM " ," See you in the morning ");
&comment.=tranwrd(&comment.," SUL " ," See you later ");
&comment.=tranwrd(&comment.," SUP " ," What is up ");
&comment.=tranwrd(&comment.," SYL " ," See you later ");
&comment.=tranwrd(&comment.," T+ " ," Think positive ");
&comment.=tranwrd(&comment.," TA " ," Thanks a lot ");
&comment.=tranwrd(&comment.," TAFN " ," That is all for now ");
&comment.=tranwrd(&comment.," TAM " ," Tomorrow AM ");
&comment.=tranwrd(&comment.," TBC " ," To be continued ");
&comment.=tranwrd(&comment.," TBD " ," To be determined ");
&comment.=tranwrd(&comment.," TBH " ," To be honest ");
&comment.=tranwrd(&comment.," TC " ," Take care ");
&comment.=tranwrd(&comment.," TGIF " ," Thank God it is Friday ");
&comment.=tranwrd(&comment.," THX " ," Thanks ");
&comment.=tranwrd(&comment.," THNX " ," Thanks ");
&comment.=tranwrd(&comment.," THNQ " ," Thank-you ");
&comment.=tranwrd(&comment.," TIA " ," Thanks in advance ");
&comment.=tranwrd(&comment.," TIAD " ," Tomorrow is another day ");
&comment.=tranwrd(&comment.," TLK2UL8R " ," Talk to you later ");
&comment.=tranwrd(&comment.," TMB " ," Text me back ");
&comment.=tranwrd(&comment.," TMI " ," Too much information ");
&comment.=tranwrd(&comment.," TMOT " ," Trust me on this ");
&comment.=tranwrd(&comment.," TMWFI " ," Take my word for it ");
&comment.=tranwrd(&comment.," TNSTAAFL " ," There is no such thing as a free lunch ");
&comment.=tranwrd(&comment.," TPM " ," Tomorrow PM ");
&comment.=tranwrd(&comment.," TPTB " ," The powers that be ");
&comment.=tranwrd(&comment.," TSTB " ," The sooner, the better ");
&comment.=tranwrd(&comment.," TTFN " ," Ta ta for now ");
&comment.=tranwrd(&comment.," TTTT " ," These things take time ");
&comment.=tranwrd(&comment.," TTYL " ," Talk to you later ");
&comment.=tranwrd(&comment.," TTYS " ," Talk to you soon ");
&comment.=tranwrd(&comment.," TU " ," Thank you ");
&comment.=tranwrd(&comment.," TY " ," Thank you ");
&comment.=tranwrd(&comment.," TYT " ," Take your time ");
&comment.=tranwrd(&comment.," TYVM " ," Thank you very much ");
&comment.=tranwrd(&comment.," UCMU " ," You crack me up ");
&comment.=tranwrd(&comment.," UGTBK " ," You have got to be kidding ");
&comment.=tranwrd(&comment.," UKTR " ," You know that is right ");
&comment.=tranwrd(&comment.," UL " ," Upload ");
&comment.=tranwrd(&comment.," UR " ," Your / You are ");

```

&comment.=tranwrd(&comment.," UV " ," Unpleasant visual ");
&comment.=tranwrd(&comment.," UW " ," You are welcome ");
&comment.=tranwrd(&comment.," VEG " ," Very evil grin ");
&comment.=tranwrd(&comment.," VFM " ," Value for money ");
&comment.=tranwrd(&comment.," VGC " ," Very good condition ");
&comment.=tranwrd(&comment.," VIP " ," Very important person ");
&comment.=tranwrd(&comment.," VM " ," Voice mail ");
&comment.=tranwrd(&comment.," VSF " ," Very sad face ");
&comment.=tranwrd(&comment.," WAM " ," Wait a minute ");
&comment.=tranwrd(&comment.," WAN2TLK " ," Want to talk ");
&comment.=tranwrd(&comment.," WAYF " ," Where are you from ");
&comment.=tranwrd(&comment.," W/B " ," Write back ");
Data Miningand Text Analytics SASGlobalForum2013
&comment.=tranwrd(&comment.," WB " ," Welcome back ");
&comment.=tranwrd(&comment.," WC " ," Who cares ");
&comment.=tranwrd(&comment.," WCA " ," Who cares anyway ");
&comment.=tranwrd(&comment.," WIBNI " ," Would not it be nice if ");
&comment.=tranwrd(&comment.," WDALYIC " ," Who died and left you in charge ");
&comment.=tranwrd(&comment.," WDYK " ," What do you know ");
&comment.=tranwrd(&comment.," WIIFM " ," What is in it for me ");
&comment.=tranwrd(&comment.," WISP " ," Winning is so pleasurable ");
&comment.=tranwrd(&comment.," WITW " ," What in the world ");
&comment.=tranwrd(&comment.," WIU " ," Wrap it up ");
&comment.=tranwrd(&comment.," WK " ," Week ");
&comment.=tranwrd(&comment.," WKD " ," Weekend ");
&comment.=tranwrd(&comment.," WRT " ," With regard to ");
&comment.=tranwrd(&comment.," WOMBAT " ," Waste of money, brains and time ");
&comment.=tranwrd(&comment.," WRK " ," Work ");
&comment.=tranwrd(&comment.," WRUD " ," What are you doing? ");
&comment.=tranwrd(&comment.," WTB " ," Wanted to buy ");
&comment.=tranwrd(&comment.," WTF " ," Disbelief ");
&comment.=tranwrd(&comment.," WTG " ," Way to go ");
&comment.=tranwrd(&comment.," WTH " ," What the heck ");
&comment.=tranwrd(&comment.," WU? " ," What is up ");
&comment.=tranwrd(&comment.," WUCIWUG " ," What you see is what you get ");
&comment.=tranwrd(&comment.," WUF? " ," Where you from ");
&comment.=tranwrd(&comment.," WWJD " ," What would Jesus do ");
&comment.=tranwrd(&comment.," WWYC " ," Write when you can ");
&comment.=tranwrd(&comment.," WYLEI " ," When you least expect it ");
&comment.=tranwrd(&comment.," WYSIWYG " ," What you see is what you get ");
&comment.=tranwrd(&comment.," X " ," Kiss ");
&comment.=tranwrd(&comment.," XLNT " ," Excellent ");
&comment.=tranwrd(&comment.," YBS " ," You will be sorry ");

```

```

&comment.=tranwrd(&comment.," YCMU " ," You crack me up ");
&comment.=tranwrd(&comment.," YGBKM " ," You have got to be kidding me ");
&comment.=tranwrd(&comment.," YKWYCD " ," You know what you can do ");
&comment.=tranwrd(&comment.," YMMV " ," Your mileage may vary ");
&comment.=tranwrd(&comment.," YSYD " ," Yeah sure you do ");
&comment.=tranwrd(&comment.," YW " ," You are welcome ");
&comment.=tranwrd(&comment.," ZZZ " ," Sleeping or bored ");
run;
%mend emoticon;

```

```

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;
%LET _SASPROGRAMFILE=;

```

```

/* START OF NODE: Dictionary of Affect */
%LET _CLIENTTASKLABEL='Dictionary of Affect';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

```

```
GOPTIONS ACCESSIBLE;
```

```

/* -----
Code by Boyd Owens

```

Generated on Tuesday, July 14, 2015 at 1:34:32 PM

Source file: E:\DictionaryofAffectclean.txt
Server: Local File System

Output data: WORK.DictionaryofAffectclean
Server: SASApp

Note: In preparation for running the following code, the Import Data wizard has used internal routines to transfer the source data file from the local file system to SASApp. There is no SAS code available to represent this action.

```
----- */
```

```
DATA WORK.DictionaryofAffectclean;
```

```

LENGTH
  Word          $ 37
  Pleasantness  8
  Activation    8
  Imagery       8 ;
FORMAT
  Word          $CHAR37.
  Pleasantness  BEST12.
  Activation    BEST12.
  Imagery       BEST12. ;
INFORMAT
  Word          $CHAR37.
  Pleasantness  BEST12.
  Activation    BEST12.
  Imagery       BEST12. ;
INFILE
'/user_projects_production/sasworkspace/SAS_work2748000072FA_qusasprdapp1.arrisi.com/#
LN00023'
  LRECL=32767
  FIRSTOBS=2
  ENCODING="LATIN1"
  TRUNCOVER ;
INPUT
  @1  Word          $CHAR37.
  @38 Pleasantness  ?? BEST7.
  @45 Activation    ?? BEST7.
  @52 Imagery       ?? BEST29. ;
RUN;

```

```

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

```

```

/* START OF NODE: Import Data (blog-gender-dataset.xlsx[GENDER]) */
%LET _CLIENTTASKLABEL='Import Data (blog-gender-dataset.xlsx[GENDER])';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

```

```

GOPTIONS ACCESSIBLE;

```

```
/* -----  
Code by Boyd Owens
```

Generated on Tuesday, July 14, 2015 at 1:34:45 PM

Source file: E:\blog-gender-dataset.xlsx
Server: Local File System

Output data: WORK.blog_gender_dataset1
Server: SASApp

Note: In preparation for running the following code, the Import Data wizard has used internal routines to transfer the source data file from the local file system to SASApp. There is no SAS code available to represent this action.

Some characters embedded within the spreadsheet data were translated to alternative characters so as to avoid transmission errors.

```
----- */
```

```
/* -----
```

This DATA step reads the data values from a temporary text file created by the Import Data wizard. The values within the temporary text file were extracted from the Excel source file.

```
----- */
```

```
DATA WORK.blog_gender_dataset1;
```

```
LENGTH
```

```
MESSAGE    $ 32714
```

```
GENDER     $ 3 ;
```

```
FORMAT
```

```
MESSAGE    $CHAR32714.
```

```
GENDER     $CHAR3. ;
```

```
INFORMAT
```

```
MESSAGE    $CHAR32714.
```

```
GENDER     $CHAR3. ;
```

```
INFILE
```

```
  '/user_projects_production/sasworkspace/SAS_work2748000072FA_qusasprdapp1.arrisi.com/#  
LN00026'
```

```
  LRECL=33108
```

```
  ENCODING="LATIN1"
```

```
  TERMSTR=CRLF
```

```

DLM='7F'x
MISSOVER
DSD ;
INPUT
MESSAGE      : $CHAR32714.
GENDER       : $CHAR3. ;
RUN;

```

```

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

```

```

/* START OF NODE: GENDER SCORE */
%LET _CLIENTTASKLABEL='GENDER SCORE';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

```

```

GOPTIONS ACCESSIBLE;
%_eg_conditional_dropds(WORK.QUERY_FOR_BLOG_GENDER_DATAS_0000);

```

```

PROC SQL;
CREATE TABLE WORK.QUERY_FOR_BLOG_GENDER_DATAS_0000 AS
SELECT t1.MESSAGE,
       t1.GENDER,
       /* MALEYN */
       (IFN(t1.GENDER="M", 1,0)) LABEL="MALEYN" AS MALEYN,
       /* LETTERCOUNT */
       (LENGTHN(t1.MESSAGE)) LABEL="LETTERCOUNT" AS LETTERCOUNT,
       /* WORDCOUNT */
       (COUNTW(t1.MESSAGE)) LABEL="WORDCOUNT" AS WORDCOUNT,
       /* MESSAGECOUNT */
       (1) LABEL="MESSAGECOUNT" AS MESSAGECOUNT,
       /* ALLCAPS */
       (IFN(ANYLOWER(t1.MESSAGE)=0,1,0)) LABEL="ALLCAPS" AS ALLCAPS,
       /* HASHTAG */
       (IFN(t1.MESSAGE CONTAINS "#", 1,0)) LABEL="HASHTAG" AS HASHTAG,
       /* RelationWord */
       ((COUNT(t1.MESSAGE, "meet", 'i') + COUNT(t1.MESSAGE, "date", 'i') +
COUNT(t1.MESSAGE, "boyfriend", 'i')

```

+COUNT(t1.MESSAGE, "girlfriend", 'i') + COUNT(t1.MESSAGE, "hookup", 'i') +
 COUNT(t1.MESSAGE,
 "hang", 'i')
 + COUNT(t1.MESSAGE, "acquainted", 'i') + COUNT(t1.MESSAGE, "affiliated",
 'i') +
 COUNT(t1.MESSAGE,
 "arm's-length", 'i') + COUNT(t1.MESSAGE, "brittle", 'i') + COUNT(t1.MESSAGE,
 "broken", 'i')
)+
 COUNT(t1.MESSAGE, "bromantic", 'i') + COUNT(t1.MESSAGE, "brotherly", 'i')
)+ COUNT(t1.MESSAGE,
 "chummy",
 'i') + COUNT(t1.MESSAGE, "clannish", 'i') + COUNT(t1.MESSAGE, "close", 'i')
)+
 COUNT(t1.MESSAGE, "close",
 'i') + COUNT(t1.MESSAGE, "close", 'i') + COUNT(t1.MESSAGE, "close", 'i') +
 COUNT(t1.MESSAGE,
 "connected",
 , 'i') + COUNT(t1.MESSAGE, "cosy", 'i') + COUNT(t1.MESSAGE, "cozy", 'i') +
 COUNT(t1.MESSAGE,
 "dysfunctional", 'i') + COUNT(t1.MESSAGE, "estranged", 'i') +
 COUNT(t1.MESSAGE, "fragile",
 'i') +
 COUNT(t1.MESSAGE, "fraternal", 'i') + COUNT(t1.MESSAGE, "fraternal", 'i') +
 COUNT(t1.MESSAGE,
 "friendly",
 , 'i') + COUNT(t1.MESSAGE, "go", 'i') + COUNT(t1.MESSAGE, "have", 'i') +
 COUNT(t1.MESSAGE,
 "have", 'i')
)+ COUNT(t1.MESSAGE, "heavy", 'i') + COUNT(t1.MESSAGE, "illicit", 'i') +
 COUNT(t1.MESSAGE,
 "immediate",
 'i') + COUNT(t1.MESSAGE, "inseparable", 'i') + COUNT(t1.MESSAGE,
 "interpersonal", 'i') +
 COUNT(t1.MESSAGE, "intimate", 'i') + COUNT(t1.MESSAGE, "intimate", 'i') +
 COUNT(t1.MESSAGE,
 "intimate",
 'i') + COUNT(t1.MESSAGE, "intimately", 'i') + COUNT(t1.MESSAGE, "long-lost",
 , 'i') +
 COUNT(t1.MESSAGE,
 "loveless", 'i') + COUNT(t1.MESSAGE, "maternal", 'i') + COUNT(t1.MESSAGE,
 "matrilineal", 'i')
)+

COUNT(t1.MESSAGE, "monogamous" , 'i')+ COUNT(t1.MESSAGE,
"monogamously" , 'i')+
COUNT(t1.MESSAGE, "mouth"
, 'i')+ COUNT(t1.MESSAGE, "one-sided" , 'i')+ COUNT(t1.MESSAGE,
"one-to-one" , 'i')+
COUNT(t1.MESSAGE,
"one-way" , 'i')+ COUNT(t1.MESSAGE, "patriarchal" , 'i')+
COUNT(t1.MESSAGE, "patrilineal" ,
'i')+
COUNT(t1.MESSAGE, "personal" , 'i')+ COUNT(t1.MESSAGE, "personally" , 'i'
)+ COUNT(t1.MESSAGE,
"platonic"
, 'i')+ COUNT(t1.MESSAGE, "platonically" , 'i')+ COUNT(t1.MESSAGE,
"political" , 'i')+
COUNT(t1.MESSAGE,
"polyandrous" , 'i')+ COUNT(t1.MESSAGE, "polygamous" , 'i')+
COUNT(t1.MESSAGE, "related" ,
'i')+
COUNT(t1.MESSAGE, "rocky" , 'i')+ COUNT(t1.MESSAGE, "same-sex" , 'i')+
COUNT(t1.MESSAGE,
"serious" , 'i'
)+ COUNT(t1.MESSAGE, "sexual" , 'i')+ COUNT(t1.MESSAGE, "shifting" , 'i')+
COUNT(t1.MESSAGE,
"strong" ,
'i')+ COUNT(t1.MESSAGE, "suited" , 'i')+ COUNT(t1.MESSAGE, "symbiotic" , 'i'
)+
COUNT(t1.MESSAGE, "thick"
, 'i')+ COUNT(t1.MESSAGE, "tight" , 'i')+ COUNT(t1.MESSAGE, "tightknit" , 'i'
)+
COUNT(t1.MESSAGE,
"unstable" , 'i')+ COUNT(t1.MESSAGE, "warming" , 'i')+ COUNT(t1.MESSAGE,
"a hungry mouth" ,
'i')+
COUNT(t1.MESSAGE, "a hungry mouth to feed" , 'i')+ COUNT(t1.MESSAGE,
"an old friend" , 'i')+
COUNT(t1.MESSAGE, "an old ally" , 'i')+ COUNT(t1.MESSAGE, "an old enemy"
, 'i')+
COUNT(t1.MESSAGE,
"an old student" , 'i')+ COUNT(t1.MESSAGE, "an old girlfriend" , 'i')+
COUNT(t1.MESSAGE,
"thick as thieves" , 'i')+ COUNT(t1.MESSAGE, "at arm's length" , 'i')+
COUNT(t1.MESSAGE,
"at arms length"

```

        , 'i' )+ COUNT(t1.MESSAGE, "be on good terms" , 'i' )+ COUNT(t1.MESSAGE,
"be on bad terms" ,
        'i' )+
        COUNT(t1.MESSAGE, "be on friendly terms" , 'i' )+ COUNT(t1.MESSAGE, "get
along famously" , 'i'
        )+
        COUNT(t1.MESSAGE, "get on famously" , 'i' )+ COUNT(t1.MESSAGE, "not on
speaking terms" , 'i' )+
        COUNT(t1.MESSAGE, "on the good side of" , 'i' )+ COUNT(t1.MESSAGE, "on
the bad side of" , 'i'
        )+
        COUNT(t1.MESSAGE, "on the right side of" , 'i' )+ COUNT(t1.MESSAGE, "on
the wrong side of" ,
        'i' )+
        COUNT(t1.MESSAGE, "nodding acquaintance" , 'i' )+ COUNT(t1.MESSAGE,
"nodding terms" , 'i' )+
        COUNT(t1.MESSAGE, "the best of friends" , 'i' ))) LABEL="RelationWord" AS
RelationWord,
        /* FamilyWords */
        (COUNT(t1.MESSAGE, "mom", 'i' )+ COUNT(t1.MESSAGE, "father", 'i' )+
COUNT(t1.MESSAGE, "dad", 'i' )+
        COUNT(t1.MESSAGE, "parent", 'i' )+ COUNT(t1.MESSAGE, "children", 'i' )+
COUNT(t1.MESSAGE, "son"
        , 'i' )+
        COUNT(t1.MESSAGE, "daughter", 'i' )+ COUNT(t1.MESSAGE, "sister", 'i' )+
COUNT(t1.MESSAGE,
        "brother", 'i' )+
        COUNT(t1.MESSAGE, "grandmother", 'i' )+ COUNT(t1.MESSAGE,
"grandfather", 'i' )+
        COUNT(t1.MESSAGE,
        "grandparent", 'i' )+ COUNT(t1.MESSAGE, "grandson", 'i' )+
COUNT(t1.MESSAGE, "granddaughter",
        'i' )+
        COUNT(t1.MESSAGE, "grandchild", 'i' )+ COUNT(t1.MESSAGE, "aunt", 'i' )+
COUNT(t1.MESSAGE,
        "uncle", 'i' )+
        COUNT(t1.MESSAGE, "niece", 'i' )+ COUNT(t1.MESSAGE, "nephew", 'i' )+
COUNT(t1.MESSAGE, "cousin"
        , 'i' )+
        COUNT(t1.MESSAGE, "husband", 'i' )+ COUNT(t1.MESSAGE, "wife", 'i' )+
COUNT(t1.MESSAGE,
        "sister-in-law", 'i'

```

```

)+ COUNT(t1.MESSAGE, "brother-in-law", 'i') + COUNT(t1.MESSAGE,
"mother-in-law", 'i') +
COUNT(t1.MESSAGE,
"father-in-law", 'i') + COUNT(t1.MESSAGE, "partner", 'i') +
COUNT(t1.MESSAGE, "fiancé", 'i') +
COUNT(t1.MESSAGE, "fiancée", 'i') + COUNT(t1.MESSAGE, "fiance", 'i') +
COUNT(t1.MESSAGE,
"fiancee", 'i') +
COUNT(t1.MESSAGE, "sis", 'i') + COUNT(t1.MESSAGE, "mum", 'i') +
COUNT(t1.MESSAGE, "cuz", 'i') +
COUNT(t1.MESSAGE, "bro", 'i') + COUNT(t1.MESSAGE, "pop", 'i'))
LABEL="FamilyWords" AS
FamilyWords,
/* PersPronoun */
(COUNT(t1.MESSAGE, "I ") + COUNT(t1.MESSAGE, "me ", 'i') +
COUNT(t1.MESSAGE, "my ", 'i') +
COUNT(t1.MESSAGE, "mine ", 'i') + COUNT(t1.MESSAGE, "you", 'i') +
COUNT(t1.MESSAGE, "your ", 'i')
) +
COUNT(t1.MESSAGE, "yours", 'i') + COUNT(t1.MESSAGE, "he ", 'i') +
COUNT(t1.MESSAGE, "she ", 'i')
) +
COUNT(t1.MESSAGE, "it ", 'i') + COUNT(t1.MESSAGE, "him", 'i') +
COUNT(t1.MESSAGE, "his", 'i')
+
COUNT(t1.MESSAGE, "her", 'i') + COUNT(t1.MESSAGE, "its", 'i') +
COUNT(t1.MESSAGE, "ours", 'i')
+
COUNT(t1.MESSAGE, "they", 'i') + COUNT(t1.MESSAGE, "hers", 'i') +
COUNT(t1.MESSAGE, "we ", 'i')
+
COUNT(t1.MESSAGE, "us ", 'i') + COUNT(t1.MESSAGE, "our ", 'i') +
COUNT(t1.MESSAGE, "them", 'i')
) +
COUNT(t1.MESSAGE, "their", 'i') + COUNT(t1.MESSAGE, "theirs", 'i') +
COUNT(t1.MESSAGE, "u ", 'i')
) +
COUNT(t1.MESSAGE, "u?", 'i')
) LABEL="PersPronoun" AS PersPronoun,
/* REFpronouns */
(COUNT(t1.MESSAGE, "myself", 'i') + COUNT(t1.MESSAGE, "yourself", 'i') +
COUNT(t1.MESSAGE, "thyself", 'i') +

```

```

COUNT(t1.MESSAGE, "himself", 'i')+ COUNT(t1.MESSAGE, "hissself", 'i')+
COUNT(t1.MESSAGE,
    "herself", 'i')+
COUNT(t1.MESSAGE, "itself", 'i')+ COUNT(t1.MESSAGE, "oneself", 'i')+
COUNT(t1.MESSAGE,
    "ourselves", 'i')+
COUNT(t1.MESSAGE, "ourself", 'i')+ COUNT(t1.MESSAGE, "yourselves", 'i')+
COUNT(t1.MESSAGE,
    "themself", 'i'
    )+ COUNT(t1.MESSAGE, "themselves", 'i')+ COUNT(t1.MESSAGE,
"theirselves", 'i')) LABEL=
    "REFPronouns" AS REFPronouns,
/* XOCOUNT */
    (COUNT(t1.MESSAGE, "xo", 'i')) LABEL="XOCOUNT" AS XOCOUNT,
/* ModalVerbs */
    (COUNT(t1.MESSAGE, "can", 'i') + COUNT(t1.MESSAGE, "could", 'i') +
COUNT(t1.MESSAGE, "may", 'i') +
COUNT(t1.MESSAGE, "might", 'i') + COUNT(t1.MESSAGE, "shall", 'i') +
COUNT(t1.MESSAGE, "shall",
    'i') +
COUNT(t1.MESSAGE, "should", 'i') + COUNT(t1.MESSAGE, "will", 'i') +
COUNT(t1.MESSAGE, "would",
    'i') +
COUNT(t1.MESSAGE, "must", 'i') + COUNT(t1.MESSAGE, "ought", 'i') +
COUNT(t1.MESSAGE, "dare", 'i'
    ) +
COUNT(t1.MESSAGE, "need", 'i') + COUNT(t1.MESSAGE, "darest", 'i') +
COUNT(t1.MESSAGE,
    "had better", 'i') +
COUNT(t1.MESSAGE, "used to", 'i')) LABEL="ModalVerbs" AS ModalVerbs,
/* Stretch_Index */
    (COUNT(t1.MESSAGE, "aaa", "i")+ COUNT(t1.MESSAGE, "bbb", "i")+
COUNT(t1.MESSAGE, "ccc", "i")+
COUNT(t1.MESSAGE, "ddd", "i")+ COUNT(t1.MESSAGE, "eee", "i")+
COUNT(t1.MESSAGE, "fff", "i")+
COUNT(t1.MESSAGE, "ggg", "i")+ COUNT(t1.MESSAGE, "hhh", "i")+
COUNT(t1.MESSAGE, "iii", "i")+
COUNT(t1.MESSAGE, "jjj", "i")+ COUNT(t1.MESSAGE, "kkk", "i")+
COUNT(t1.MESSAGE, "lll", "i")+
COUNT(t1.MESSAGE, "mmm", "i")+ COUNT(t1.MESSAGE, "nnn", "i")+
COUNT(t1.MESSAGE, "ooo", "i")+
COUNT(t1.MESSAGE, "ppp", "i")+ COUNT(t1.MESSAGE, "qqq", "i")+
COUNT(t1.MESSAGE, "rrr", "i")+

```

```

COUNT(t1.MESSAGE, "sss", "i")+ COUNT(t1.MESSAGE, "ttt", "i")+
COUNT(t1.MESSAGE, "uuu", "i")+
COUNT(t1.MESSAGE, "vvv", "i")+ COUNT(t1.MESSAGE, "www", "i")+
COUNT(t1.MESSAGE, "xxx", "i")+
COUNT(t1.MESSAGE, "yyy", "i")+ COUNT(t1.MESSAGE, "zzz", "i")+
COUNT(t1.MESSAGE, "111", "i")+
COUNT(t1.MESSAGE, "222", "i")+ COUNT(t1.MESSAGE, "333", "i")+
COUNT(t1.MESSAGE, "444", "i")+
COUNT(t1.MESSAGE, "555", "i")+ COUNT(t1.MESSAGE, "666", "i")+
COUNT(t1.MESSAGE, "777", "i")+
COUNT(t1.MESSAGE, "888", "i")+ COUNT(t1.MESSAGE, "999", "i")+
COUNT(t1.MESSAGE, "000", "i")+
COUNT(t1.MESSAGE, "``", "i")+ COUNT(t1.MESSAGE, "~~", "i")+
COUNT(t1.MESSAGE, "!!!", "i")+
COUNT(t1.MESSAGE, "@@@", "i")+ COUNT(t1.MESSAGE, "###", "i")+
COUNT(t1.MESSAGE, "$$$", "i")+
COUNT(t1.MESSAGE, "%%%", "i")+ COUNT(t1.MESSAGE, "^^^", "i")+
COUNT(t1.MESSAGE, "&&&", "i")+
COUNT(t1.MESSAGE, "****", "i")+ COUNT(t1.MESSAGE, "((((", "i")+
COUNT(t1.MESSAGE, ")))", "i")+
COUNT(t1.MESSAGE, "===", "i")+ COUNT(t1.MESSAGE, "+++", "i")+
COUNT(t1.MESSAGE, "\\\\", "i")+
COUNT(t1.MESSAGE, "|||", "i")+ COUNT(t1.MESSAGE, "[[[", "i")+
COUNT(t1.MESSAGE, "]]]", "i")+
COUNT(t1.MESSAGE, "}}}", "i")+ COUNT(t1.MESSAGE, "{{{{", "i")+
COUNT(t1.MESSAGE, "", "i")+
COUNT(t1.MESSAGE,
    ";;;", "i")+ COUNT(t1.MESSAGE, "...", "i")+ COUNT(t1.MESSAGE, "???", "i")+
COUNT(t1.MESSAGE,
    "///", "i")+
COUNT(t1.MESSAGE, "...", "i")+ COUNT(t1.MESSAGE, ",,,", "i")+
COUNT(t1.MESSAGE, "<<<", "i")+
COUNT(t1.MESSAGE, ">>>", "i")) LABEL="Stretch_Index" AS Stretch_Index,
/* NEGATION */
(IFN(INDEXW(t1.MESSAGE, "not")>=1, 1, 0)) LABEL="NEGATION" AS NEGATION,
/* STOPWORDS */
(COUNT(t1.MESSAGE, "a", "i")+ COUNT(t1.MESSAGE, "able", "i")+
COUNT(t1.MESSAGE, "about", "i")+
COUNT(t1.MESSAGE, "across", "i")+ COUNT(t1.MESSAGE, "after", "i")+
COUNT(t1.MESSAGE, "all", "i")
)+
COUNT(t1.MESSAGE, "almost", "i")+ COUNT(t1.MESSAGE, "also", "i")+
COUNT(t1.MESSAGE, "am", "i")+

```

COUNT(t1.MESSAGE, "among", "i")+ COUNT(t1.MESSAGE, "an", "i")+
COUNT(t1.MESSAGE, "and", "i")+
COUNT(t1.MESSAGE, "any", "i")+ COUNT(t1.MESSAGE, "are", "i")+
COUNT(t1.MESSAGE, "as", "i")+
COUNT(t1.MESSAGE, "at", "i")+ COUNT(t1.MESSAGE, "be", "i")+
COUNT(t1.MESSAGE, "because", "i")+
COUNT(t1.MESSAGE, "been", "i")+ COUNT(t1.MESSAGE, "but", "i")+
COUNT(t1.MESSAGE, "by", "i")+
COUNT(t1.MESSAGE, "can", "i")+ COUNT(t1.MESSAGE, "cannot", "i")+
COUNT(t1.MESSAGE, "could", "i"
)+
COUNT(t1.MESSAGE, "dear", "i")+ COUNT(t1.MESSAGE, "did", "i")+
COUNT(t1.MESSAGE, "do", "i")+
COUNT(t1.MESSAGE, "does", "i")+ COUNT(t1.MESSAGE, "either", "i")+
COUNT(t1.MESSAGE, "else", "i"
)+
COUNT(t1.MESSAGE, "ever", "i")+ COUNT(t1.MESSAGE, "every", "i")+
COUNT(t1.MESSAGE, "for", "i")+
COUNT(t1.MESSAGE, "from", "i")+ COUNT(t1.MESSAGE, "get", "i")+
COUNT(t1.MESSAGE, "got", "i")+
COUNT(t1.MESSAGE, "had", "i")+ COUNT(t1.MESSAGE, "has", "i")+
COUNT(t1.MESSAGE, "have", "i")+
COUNT(t1.MESSAGE, "he", "i")+ COUNT(t1.MESSAGE, "her", "i")+
COUNT(t1.MESSAGE, "hers", "i")+
COUNT(t1.MESSAGE, "him", "i")+ COUNT(t1.MESSAGE, "his", "i")+
COUNT(t1.MESSAGE, "how", "i")+
COUNT(t1.MESSAGE, "however", "i")+ COUNT(t1.MESSAGE, "i", "i")+
COUNT(t1.MESSAGE, "if", "i")+
COUNT(t1.MESSAGE, "in", "i")+ COUNT(t1.MESSAGE, "into", "i")+
COUNT(t1.MESSAGE, "is", "i")+
COUNT(t1.MESSAGE, "it", "i")+ COUNT(t1.MESSAGE, "its", "i")+
COUNT(t1.MESSAGE, "just", "i")+
COUNT(t1.MESSAGE, "least", "i")+ COUNT(t1.MESSAGE, "let", "i")+
COUNT(t1.MESSAGE, "like", "i")+
COUNT(t1.MESSAGE, "likely", "i")+ COUNT(t1.MESSAGE, "may", "i")+
COUNT(t1.MESSAGE, "me", "i")+
COUNT(t1.MESSAGE, "might", "i")+ COUNT(t1.MESSAGE, "most", "i")+
COUNT(t1.MESSAGE, "must", "i"
)+
COUNT(t1.MESSAGE, "my", "i")+ COUNT(t1.MESSAGE, "neither", "i")+
COUNT(t1.MESSAGE, "no", "i")+
COUNT(t1.MESSAGE, "nor", "i")+ COUNT(t1.MESSAGE, "not", "i")+
COUNT(t1.MESSAGE, "of", "i")+

```

COUNT(t1.MESSAGE, "off", "i")+ COUNT(t1.MESSAGE, "often", "i")+
COUNT(t1.MESSAGE, "on", "i")+
COUNT(t1.MESSAGE, "only", "i")+ COUNT(t1.MESSAGE, "or", "i")+
COUNT(t1.MESSAGE, "other", "i")+
COUNT(t1.MESSAGE, "our", "i")+ COUNT(t1.MESSAGE, "own", "i")+
COUNT(t1.MESSAGE, "rather", "i")+
COUNT(t1.MESSAGE, "said", "i")+ COUNT(t1.MESSAGE, "say", "i")+
COUNT(t1.MESSAGE, "says", "i")+
COUNT(t1.MESSAGE, "she", "i")+ COUNT(t1.MESSAGE, "should", "i")+
COUNT(t1.MESSAGE, "since", "i"
)+
COUNT(t1.MESSAGE, "so", "i")+ COUNT(t1.MESSAGE, "some", "i")+
COUNT(t1.MESSAGE, "than", "i")+
COUNT(t1.MESSAGE, "that", "i")+ COUNT(t1.MESSAGE, "the", "i")+
COUNT(t1.MESSAGE, "their", "i")+
COUNT(t1.MESSAGE, "them", "i")+ COUNT(t1.MESSAGE, "then", "i")+
COUNT(t1.MESSAGE, "there", "i"
)+
COUNT(t1.MESSAGE, "these", "i")+ COUNT(t1.MESSAGE, "they", "i")+
COUNT(t1.MESSAGE, "this", "i"
)+
COUNT(t1.MESSAGE, "tis", "i")+ COUNT(t1.MESSAGE, "to", "i")+
COUNT(t1.MESSAGE, "too", "i")+
COUNT(t1.MESSAGE, "twas", "i")+ COUNT(t1.MESSAGE, "us", "i")+
COUNT(t1.MESSAGE, "wants", "i")+
COUNT(t1.MESSAGE, "was", "i")+ COUNT(t1.MESSAGE, "we", "i")+
COUNT(t1.MESSAGE, "were", "i")+
COUNT(t1.MESSAGE, "what", "i")+ COUNT(t1.MESSAGE, "when", "i")+
COUNT(t1.MESSAGE, "where", "i"
)+
COUNT(t1.MESSAGE, "which", "i")+ COUNT(t1.MESSAGE, "while", "i")+
COUNT(t1.MESSAGE, "who", "i"
)+
COUNT(t1.MESSAGE, "whom", "i")+ COUNT(t1.MESSAGE, "why", "i")+
COUNT(t1.MESSAGE, "will", "i")+
COUNT(t1.MESSAGE, "with", "i")+ COUNT(t1.MESSAGE, "would", "i")+
COUNT(t1.MESSAGE, "yet", "i")+
COUNT(t1.MESSAGE, "you", "i")+ COUNT(t1.MESSAGE, "your", "i"))
LABEL="STOPWORDS" AS STOPWORDS
FROM WORK.BLOG_GENDER_DATASET1 t1;
QUIT;

GOPTIONS NOACCESSIBLE;

```

```

%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

/* START OF NODE: Dead End so far */
%LET _CLIENTTASKLABEL='Dead End so far';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

GOPTIONS ACCESSIBLE;
TITLE;
TITLE1 "Summary Tables";
FOOTNOTE;
FOOTNOTE1 "Generated by the SAS System (&_SASSERVERNAME, &SYSSCPL) on
%TRIM(%QSYSFUNC(DATE(), NLDATE20.)) at %TRIM(%SYSFUNC(TIME()),
TIMEAMPM12.)";
/* -----
Code generated by SAS Task

Generated on: Tuesday, July 14, 2015 at 1:42:33 PM
By task: Dead End so far

Input Data: SASApp:WORK.QUERY_FOR_BLOG_GENDER_DATAS_0000
Server: SASApp
----- */

%_eg_conditional_dropds(WORK.BLOGSCORE);

/* -----
Run the tabulate procedure
----- */
PROC TABULATE
DATA=WORK.QUERY_FOR_BLOG_GENDER_DATAS_0000

OUT=WORK.BLOGSCORE(LABEL="Summary Tables for
WORK.QUERY_FOR_BLOG_GENDER_DATAS_0000")

;

```

```

VAR LETTERCOUNT WORDCOUNT MESSAGECOUNT ALLCAPS HASHTAG
RelationWord FamilyWords PersPronoun REFPronouns XOCOUNT ModalVerbs Stretch_Index
NEGATION STOPWORDS;
    CLASS MALEYN /    ORDER=UNFORMATTED MISSING;
    CLASS GENDER /    ORDER=UNFORMATTED MISSING;
    TABLE /* Row Dimension */
Sum*(
    LETTERCOUNT
    WORDCOUNT
    MESSAGECOUNT
    ALLCAPS
    HASHTAG
    RelationWord
    FamilyWords
    PersPronoun
    REFPronouns
    XOCOUNT
    ModalVerbs
    Stretch_Index
    NEGATION
    STOPWORDS),
/* Column Dimension */
GENDER
MALEYN          ;
                ;

RUN;
/* -----
   End of task code.
   ----- */
RUN; QUIT;
TITLE; FOOTNOTE;

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

/* START OF NODE: Discriminant Analysis */
%LET _CLIENTTASKLABEL='Discriminant Analysis';

```

```
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
```

```
/* -----
Code generated by SAS Task
```

```
Generated on: Tuesday, July 14, 2015 at 1:42:41 PM
By task: Discriminant Analysis
```

```
Input Data: SASApp:WORK.QUERY_FOR_BLOG_GENDER_DATAS_0000
Server: SASApp
```

```
----- */
```

```
%_eg_conditional_dropds(WORK.SORTTempTableSorted);
```

```
/* -----
```

```
Determine the data set's type attribute (if one is defined)
and prepare it for addition to the data set/view which is
generated in the following step.
```

```
----- */
```

```
DATA _NULL_;
    dsid = OPEN("WORK.QUERY_FOR_BLOG_GENDER_DATAS_0000", "I");
    dstype = ATTRC(DSID, "TYPE");
    IF TRIM(dstype) = " " THEN
        DO;
            CALL SYMPUT("_EG_DSTYPE_", "");
            CALL SYMPUT("_DSTYPE_VARS_", "");
        END;
    ELSE
        DO;
            CALL SYMPUT("_EG_DSTYPE_", "(TYPE=***** || TRIM(dstype) || *****)");
            IF VARNUM(dsid, "_NAME_") NE 0 AND VARNUM(dsid, "_TYPE_") NE 0 THEN
                CALL SYMPUT("_DSTYPE_VARS_", "_TYPE__NAME_");
            ELSE IF VARNUM(dsid, "_TYPE_") NE 0 THEN
                CALL SYMPUT("_DSTYPE_VARS_", "_TYPE_");
            ELSE IF VARNUM(dsid, "_NAME_") NE 0 THEN
                CALL SYMPUT("_DSTYPE_VARS_", "_NAME_");
            ELSE
                CALL SYMPUT("_DSTYPE_VARS_", "");
        END;
    rc = CLOSE(dsid);
    STOP;
```

RUN;

```
/* -----  
Data set WORK.QUERY_FOR_BLOG_GENDER_DATAS_0000 does not need to be sorted.  
----- */
```

DATA WORK.SORTTempTableSorted &_EG_DSTYPE_ /

VIEW=WORK.SORTTempTableSorted;

SET WORK.QUERY_FOR_BLOG_GENDER_DATAS_0000(KEEP=LETTERCOUNT
WORDCOUNT MESSAGECOUNT ALLCAPS HASHTAG RelationWord FamilyWords
PersPronoun REFpronouns XOCOUNT ModalVerbs Stretch_Index NEGATION STOPWORDS
MALEYN &_DSTYPE_VARS_);

RUN;

TITLE;

TITLE1 "Discriminant Analysis Results";

FOOTNOTE;

FOOTNOTE1 "Generated by the SAS System (&_SASSERVERNAME, &SYSSCPL) on
%TRIM(%QSYSFUNC(DATE()), NLDATE20.)) at %TRIM(%SYSFUNC(TIME()),
TIMEAMPM12.))";

PROC DISCRIM DATA = WORK.SORTTempTableSorted

;

VAR LETTERCOUNT WORDCOUNT MESSAGECOUNT ALLCAPS HASHTAG
RelationWord FamilyWords PersPronoun REFpronouns XOCOUNT ModalVerbs Stretch_Index
NEGATION STOPWORDS;

CLASS MALEYN;

PRIORS EQUAL;

```
/* -----  
End of task code.  
----- */
```

RUN; QUIT;

%_eg_conditional_dropds(WORK.SORTTempTableSorted);

TITLE; FOOTNOTE;

GOPTIONS NOACCESSIBLE;

%LET _CLIENTTASKLABEL=;

%LET _CLIENTPROJECTPATH=;

%LET _CLIENTPROJECTNAME=;

```
/* START OF NODE: Import EMO_Ekman tables */
```

%LET _CLIENTTASKLABEL='Import EMO_Ekman tables';

%LET

_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egg';

```
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
```

```
/* -----
```

```
Code by Boyd Owens
```

```
Generated on Tuesday, July 14, 2015 at 1:35:48 PM
```

```
Source file: E:\EMO_Ekman.xlsx
```

```
Server: Local File System
```

```
Output data: WORK.EMO_Ekman
```

```
Server: SASApp
```

```
Note: In preparation for running the following code, the Import  
Data wizard has used internal routines to transfer the source data  
file from the local file system to SASApp. There is no SAS code  
available to represent this action.
```

```
----- */
```

```
/* -----
```

```
This DATA step reads the data values from a temporary text file  
created by the Import Data wizard. The values within the temporary  
text file were extracted from the Excel source file.
```

```
----- */
```

```
DATA WORK.EMO_Ekman;
```

```
LENGTH
```

```
Meaning $ 118
```

```
Text_Icon $ 51
```

```
Ekman_Basic_Emotion $ 8
```

```
Polarity 8
```

```
Plutchik_joy_sad 8
```

```
Plutchik_anger_fear 8
```

```
Plutchik_trust_dis 8
```

```
Plutchik_sup_ant 8
```

```
Subjectivity $ 10
```

```
Subjectivity_No 8
```

```
Time_Affect $ 7
```

```
Time_Affect_No 8
```

```
Functional_State $ 13
```

```
Functional_No 8
```

```

      Chiral      8 ;
FORMAT
  Meaning      $CHAR118.
  Text_Icon    $CHAR51.
  Ekman_Basic_Emotion $CHAR8.
  Polarity     BEST12.
  Plutchik_joy_sad BEST12.
  Plutchik_anger_fear BEST12.
  Plutchik_trust_dis BEST12.
  Plutchik_sup_ant BEST12.
  Subjectivity $CHAR10.
  Subjectivity_No BEST12.
  Time_Affect  $CHAR7.
  Time_Affect_No BEST12.
  Functional_State $CHAR13.
  Functional_No BEST12.
  Chiral      BEST12. ;
INFORMAT
  Meaning      $CHAR118.
  Text_Icon    $CHAR51.
  Ekman_Basic_Emotion $CHAR8.
  Polarity     BEST12.
  Plutchik_joy_sad BEST12.
  Plutchik_anger_fear BEST12.
  Plutchik_trust_dis BEST12.
  Plutchik_sup_ant BEST12.
  Subjectivity $CHAR10.
  Subjectivity_No BEST12.
  Time_Affect  $CHAR7.
  Time_Affect_No BEST12.
  Functional_State $CHAR13.
  Functional_No BEST12.
  Chiral      BEST12. ;
INFILE
'/user_projects_production/sasworkspace/SAS_work2748000072FA_qusasprdapp1.arrisi.com/#
LN00032'
  LRECL=203
  ENCODING="LATIN1"
  TERMSTR=CRLF
  DLM='7F'x
  MISSOVER
  DSD ;
INPUT

```

Meaning : \$CHAR118.
Text_Icon : \$CHAR51.
Ekman_Basic_Emotion : \$CHAR8.
Polarity : BEST32.
Plutchik_joy_sad : BEST32.
Plutchik_anger_fear : BEST32.
Plutchik_trust_dis : BEST32.
Plutchik_sup_ant : BEST32.
Subjectivity : \$CHAR10.
Subjectivity_No : BEST32.
Time_Affect : \$CHAR7.
Time_Affect_No : BEST32.
Functional_State : \$CHAR13.
Functional_No : BEST32.
Chiral : BEST32. ;

RUN;

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

/* START OF NODE: Import EMO Obscurity Tables */
%LET _CLIENTTASKLABEL='Import EMO Obscurity Tables';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

GOPTIONS ACCESSIBLE;

/* -----

Code by Boyd Owens

Generated on Tuesday, July 14, 2015 at 1:35:57 PM

Source file: E:\EMO OBS.xlsx
Server: Local File System

Output data: WORK.EMO OBS
Server: SASApp

Note: In preparation for running the following code, the Import Data wizard has used internal routines to transfer the source data file from the local file system to SASApp. There is no SAS code available to represent this action.

```
----- */  
  
/* -----  
This DATA step reads the data values from a temporary text file  
created by the Import Data wizard. The values within the temporary  
text file were extracted from the Excel source file.  
----- */
```

```
DATA WORK.EMOOBS;  
  LENGTH  
    EMO_ID_No      8  
    Emoticon       $ 9  
    EMO_Strength   8  
    EMO_Obscurity  8 ;  
  DROP  
    Count ;  
  FORMAT  
    EMO_ID_No      BEST12.  
    Emoticon       $CHAR9.  
    EMO_Strength   BEST12.  
    EMO_Obscurity  F12.2 ;  
  INFORMAT  
    EMO_ID_No      BEST12.  
    Emoticon       $CHAR9.  
    EMO_Strength   BEST12.  
    EMO_Obscurity  BEST12. ;  
  INFILE  
    '/user_projects_production/sasworkspace/SAS_work2748000072FA_qusasprdapp1.arrisi.com/#  
LN00035'  
    LRECL=55  
    ENCODING="LATIN1"  
    TERMSTR=CRLF  
    DLM='7F'  
    MISOVER  
    DSD ;  
  INPUT  
    EMO_ID_No      : BEST32.  
    Emoticon       : $CHAR9.  
    Count          : $1.
```

```
EMO_Strength    : BEST32.  
EMO_Obscurity   : BEST32. ;  
RUN;
```

```
GOPTIONS NOACCESSIBLE;  
%LET _CLIENTTASKLABEL=;  
%LET _CLIENTPROJECTPATH=;  
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: TARGET LIST */  
%LET _CLIENTTASKLABEL='TARGET LIST';  
%LET  
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';  
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
```

```
/* -----  
Code by Boyd Owens
```

Generated on Tuesday, July 14, 2015 at 1:36:04 PM

Source file: E:\SP_Target List.xlsx
Server: Local File System

Output data: WORK.'SP_Target List'n
Server: SASApp

Note: In preparation for running the following code, the Import Data wizard has used internal routines to transfer the source data file from the local file system to SASApp. There is no SAS code available to represent this action.

```
----- */
```

```
/* -----
```

This DATA step reads the data values from a temporary text file created by the Import Data wizard. The values within the temporary text file were extracted from the Excel source file.

```
----- */
```

```
DATA WORK.'SP_Target List'n;
```

```

LENGTH
  NAME          $ 21
  Target        8 ;
KEEP
  NAME
  Target ;
FORMAT
  NAME          $CHAR21.
  Target        BEST12. ;
INFORMAT
  NAME          $CHAR21.
  Target        BEST12. ;
INFILE
'/user_projects_production/sasworkspace/SAS_work2748000072FA_qusasprdapp1.arrisi.com/#
LN00038'
  LRECL=76
  ENCODING="LATIN1"
  TERMSTR=CRLF
  DLM='7F'x
  MISSOVER
  DSD ;
INPUT
  NAME          : $CHAR21.
  _TYPE_        : $1.
  _PAGE_        : $1.
  Target        : BEST32.
  WORDCOUNT_Sum : $1.
  RelationWord_Sum : $1.
  FamilyWords_Sum : $1.
  PersPronoun_Sum : $1.
  REFPronouns_Sum : $1.
  XOCount_Sum   : $1.
  ModalVerbs_Sum : $1.
  Stretch_Index_Sum : $1.
  ee_Sum        : $1.
  aa_Sum        : $1.
  ii_Sum        : $1.
  AFFECT_Sum    : $1. ;
RUN;

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;

```

```
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: Import YAMMER FEED */
%LET _CLIENTTASKLABEL='Import YAMMER FEED';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

GOPTIONS ACCESSIBLE;

```
/* -----
Code by Boyd Owens
```

Generated on Tuesday, July 14, 2015 at 1:36:10 PM

Source file: E:\YAMMER FEED.xlsx
Server: Local File System

Output data: WORK.'YAMMER FEED'n
Server: SASApp

Note: In preparation for running the following code, the Import Data wizard has used internal routines to transfer the source data file from the local file system to SASApp. There is no SAS code available to represent this action.

```
----- */
```

```
/* -----
```

This DATA step reads the data values from a temporary text file created by the Import Data wizard. The values within the temporary text file were extracted from the Excel source file.

```
----- */
```

DATA WORK.'YAMMER FEED'n;

LENGTH

NAME	\$ 44
DATE	8
TIME	8
MEDIA	\$ 7
TITLE	\$ 52
MESSAGE	\$ 953 ;

```

FORMAT
  NAME      $CHAR44.
  DATE      DATE9.
  TIME      TIME11.2
  MEDIA     $CHAR7.
  TITLE     $CHAR52.
  MESSAGE   $CHAR953. ;
INFORMAT
  NAME      $CHAR44.
  DATE      DATE9.
  TIME      TIME11.
  MEDIA     $CHAR7.
  TITLE     $CHAR52.
  MESSAGE   $CHAR953. ;
INFILE
'/user_projects_production/sasworkspace/SAS_work2748000072FA_qusasprdapp1.arrisi.com/#
LN00041'
  LRECL=1007
  ENCODING="LATIN1"
  TERMSTR=CRLF
  DLM='7F'x
  MISSOVER
  DSD ;
INPUT
  NAME      : $CHAR44.
  DATE      : ANYDTDTE16.
  TIME      : ANYDTTME7.
  MEDIA     : $CHAR7.
  TITLE     : $CHAR52.
  MESSAGE   : $CHAR953. ;
RUN;

```

```

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

```

```

/* START OF NODE: Append Table */
%LET _CLIENTTASKLABEL='Append Table';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egg';

```

```
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
```

```
%_eg_conditional_dropds(WORK.YAMMERANDMASTER);
```

```
PROC SQL;
```

```
CREATE TABLE WORK.YAMMERANDMASTER AS
```

```
SELECT * FROM WORK.QUERY_FOR_CHATLOG_0000
```

```
OUTER UNION CORR
```

```
SELECT * FROM WORK.'YAMMER FEED'
```

```
;
```

```
Quit;
```

```
GOPTIONS NOACCESSIBLE;
```

```
%LET _CLIENTTASKLABEL=;
```

```
%LET _CLIENTPROJECTPATH=;
```

```
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: WORD COUNTS */
```

```
%LET _CLIENTTASKLABEL='WORD COUNTS';
```

```
%LET
```

```
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
```

```
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
```

```
%_eg_conditional_dropds(WORK.QUERY_FOR_CHATLOG_0001);
```

```
PROC SQL;
```

```
CREATE TABLE
```

```
WORK.QUERY_FOR_CHATLOG_0001(label="WORK.QUERY_FOR_CHATLOG_0001") AS
```

```
SELECT t1.F1,
```

```
    t1.NAME,
```

```
    t1.DATETIME,
```

```
    t1.DATE,
```

```
    t1.TIME,
```

```
/* SOURCE1 */
```

```
(IFC(t1.SOURCE="", "YAMMER", t1.SOURCE, "YAMMER")) LABEL="SOURCE" AS
```

```
SOURCE1,
```

```
    t1.MESSAGE,
```

```
    t1.MEDIA,
```

```
    t1.TITLE,
```

```
/* LETTERCOUNT */
```

```

        (LENGTHN(t1.MESSAGE)) LABEL="LETTERCOUNT" AS LETTERCOUNT,
/* WORDCOUNT */
        (COUNTW(t1.MESSAGE)) LABEL="WORDCOUNT" AS WORDCOUNT,
/* MESSAGECOUNT */
        (1) LABEL="MESSAGECOUNT" AS MESSAGECOUNT,
/* ALLCAPS */
        (IFN(ANYLOWER(t1.MESSAGE)=0,1,0)) LABEL="ALLCAPS" AS ALLCAPS,
/* HASHTAG */
        (IFN(t1.MESSAGE CONTAINS "#", 1,0) ) LABEL="HASTAG" AS HASHTAG,
/* RelationWord */
        ((COUNT(t1.MESSAGE, "meet", 'i') + COUNT(t1.MESSAGE, "date", 'i') +
COUNT(t1.MESSAGE, "boyfriend", 'i')
        +COUNT(t1.MESSAGE, "girlfriend", 'i') + COUNT(t1.MESSAGE, "hookup", 'i') +
COUNT(t1.MESSAGE, "hang", 'i')
        + COUNT(t1.MESSAGE, "acquainted", 'i') + COUNT(t1.MESSAGE, "affiliated", 'i') +
COUNT(t1.MESSAGE,
        "arm's-length", 'i') + COUNT(t1.MESSAGE, "brittle", 'i') + COUNT(t1.MESSAGE,
"broken", 'i') +
        COUNT(t1.MESSAGE, "bromantic", 'i') + COUNT(t1.MESSAGE, "brotherly", 'i') +
COUNT(t1.MESSAGE, "chummy",
        'i') + COUNT(t1.MESSAGE, "clannish", 'i') + COUNT(t1.MESSAGE, "close", 'i') +
COUNT(t1.MESSAGE, "close",
        'i') + COUNT(t1.MESSAGE, "close", 'i') + COUNT(t1.MESSAGE, "close", 'i') +
COUNT(t1.MESSAGE, "connected"
        , 'i') + COUNT(t1.MESSAGE, "cosy", 'i') + COUNT(t1.MESSAGE, "cozy", 'i') +
COUNT(t1.MESSAGE,
        "dysfunctional", 'i') + COUNT(t1.MESSAGE, "estranged", 'i') + COUNT(t1.MESSAGE,
"fragile", 'i') +
        COUNT(t1.MESSAGE, "fraternal", 'i') + COUNT(t1.MESSAGE, "fraternal", 'i') +
COUNT(t1.MESSAGE, "friendly"
        , 'i') + COUNT(t1.MESSAGE, "go", 'i') + COUNT(t1.MESSAGE, "have", 'i') +
COUNT(t1.MESSAGE, "have", 'i'
        ) + COUNT(t1.MESSAGE, "heavy", 'i') + COUNT(t1.MESSAGE, "illicit", 'i') +
COUNT(t1.MESSAGE, "immediate",
        'i') + COUNT(t1.MESSAGE, "inseparable", 'i') + COUNT(t1.MESSAGE, "interpersonal",
'i') +
        COUNT(t1.MESSAGE, "intimate", 'i') + COUNT(t1.MESSAGE, "intimate", 'i') +
COUNT(t1.MESSAGE, "intimate",
        'i') + COUNT(t1.MESSAGE, "intimately", 'i') + COUNT(t1.MESSAGE, "long-lost", 'i') +
COUNT(t1.MESSAGE,
        "loveless", 'i') + COUNT(t1.MESSAGE, "maternal", 'i') + COUNT(t1.MESSAGE,
"matrilineal", 'i') +

```

COUNT(t1.MESSAGE, "monogamous" , 'i')+ COUNT(t1.MESSAGE, "monogamously" ,
'i')+ COUNT(t1.MESSAGE, "mouth"
, 'i')+ COUNT(t1.MESSAGE, "one-sided" , 'i')+ COUNT(t1.MESSAGE, "one-to-one" , 'i'
)+ COUNT(t1.MESSAGE,
"one-way" , 'i')+ COUNT(t1.MESSAGE, "patriarchal" , 'i')+ COUNT(t1.MESSAGE,
"patrilineal" , 'i')+
COUNT(t1.MESSAGE, "personal" , 'i')+ COUNT(t1.MESSAGE, "personally" , 'i')+
COUNT(t1.MESSAGE, "platonic"
, 'i')+ COUNT(t1.MESSAGE, "platonically" , 'i')+ COUNT(t1.MESSAGE, "political" , 'i')+
COUNT(t1.MESSAGE,
"polyandrous" , 'i')+ COUNT(t1.MESSAGE, "polygamous" , 'i')+ COUNT(t1.MESSAGE,
"related" , 'i')+
COUNT(t1.MESSAGE, "rocky" , 'i')+ COUNT(t1.MESSAGE, "same-sex" , 'i')+
COUNT(t1.MESSAGE, "serious" , 'i'
)+ COUNT(t1.MESSAGE, "sexual" , 'i')+ COUNT(t1.MESSAGE, "shifting" , 'i')+
COUNT(t1.MESSAGE, "strong" ,
'i')+ COUNT(t1.MESSAGE, "suited" , 'i')+ COUNT(t1.MESSAGE, "symbiotic" , 'i')+
COUNT(t1.MESSAGE, "thick"
, 'i')+ COUNT(t1.MESSAGE, "tight" , 'i')+ COUNT(t1.MESSAGE, "tightknit" , 'i')+
COUNT(t1.MESSAGE,
"unstable" , 'i')+ COUNT(t1.MESSAGE, "warming" , 'i')+ COUNT(t1.MESSAGE, "a
hungry mouth" , 'i')+
COUNT(t1.MESSAGE, "a hungry mouth to feed" , 'i')+ COUNT(t1.MESSAGE, "an old
friend" , 'i')+
COUNT(t1.MESSAGE, "an old ally" , 'i')+ COUNT(t1.MESSAGE, "an old enemy" , 'i')+
COUNT(t1.MESSAGE,
"an old student" , 'i')+ COUNT(t1.MESSAGE, "an old girlfriend" , 'i')+
COUNT(t1.MESSAGE,
"thick as thieves" , 'i')+ COUNT(t1.MESSAGE, "at arm's length" , 'i')+
COUNT(t1.MESSAGE, "at arms length"
, 'i')+ COUNT(t1.MESSAGE, "be on good terms" , 'i')+ COUNT(t1.MESSAGE, "be on
bad terms" , 'i')+
COUNT(t1.MESSAGE, "be on friendly terms" , 'i')+ COUNT(t1.MESSAGE, "get along
famously" , 'i')+
COUNT(t1.MESSAGE, "get on famously" , 'i')+ COUNT(t1.MESSAGE, "not on speaking
terms" , 'i')+
COUNT(t1.MESSAGE, "on the good side of" , 'i')+ COUNT(t1.MESSAGE, "on the bad
side of" , 'i')+
COUNT(t1.MESSAGE, "on the right side of" , 'i')+ COUNT(t1.MESSAGE, "on the wrong
side of" , 'i')+
COUNT(t1.MESSAGE, "nodding acquaintance" , 'i')+ COUNT(t1.MESSAGE, "nodding
terms" , 'i')+

```

COUNT(t1.MESSAGE, "the best of friends" , 'i' )+COUNT(t1.MESSAGE, "bf",
"i")+COUNT(t1.MESSAGE, "gf", "i"))
LABEL="RelationWord" AS RelationWord,
/* FamilyWords */
(COUNT(t1.MESSAGE, "mom", 'i' )+ COUNT(t1.MESSAGE, "father", 'i' )+
COUNT(t1.MESSAGE, "dad", 'i' )+
COUNT(t1.MESSAGE, "parent", 'i' )+ COUNT(t1.MESSAGE, "children", 'i' )+
COUNT(t1.MESSAGE, "son", 'i' )+
COUNT(t1.MESSAGE, "daughter", 'i' )+ COUNT(t1.MESSAGE, "sister", 'i' )+
COUNT(t1.MESSAGE, "brother", 'i' )+
COUNT(t1.MESSAGE, "grandmother", 'i' )+ COUNT(t1.MESSAGE, "grandfather", 'i' )+
COUNT(t1.MESSAGE,
"grandparent", 'i' )+ COUNT(t1.MESSAGE, "grandson", 'i' )+ COUNT(t1.MESSAGE,
"granddaughter", 'i' )+
COUNT(t1.MESSAGE, "grandchild", 'i' )+ COUNT(t1.MESSAGE, "aunt", 'i' )+
COUNT(t1.MESSAGE, "uncle", 'i' )+
COUNT(t1.MESSAGE, "niece", 'i' )+ COUNT(t1.MESSAGE, "nephew", 'i' )+
COUNT(t1.MESSAGE, "cousin", 'i' )+
COUNT(t1.MESSAGE, "husband", 'i' )+ COUNT(t1.MESSAGE, "wife", 'i' )+
COUNT(t1.MESSAGE, "sister-in-law", 'i'
)+ COUNT(t1.MESSAGE, "brother-in-law", 'i' )+ COUNT(t1.MESSAGE, "mother-in-law",
'i' )+ COUNT(t1.MESSAGE,
"father-in-law", 'i' )+ COUNT(t1.MESSAGE, "partner", 'i' )+ COUNT(t1.MESSAGE,
"fiancé", 'i' )+
COUNT(t1.MESSAGE, "fiancée", 'i' )+ COUNT(t1.MESSAGE, "fiance", 'i' )+
COUNT(t1.MESSAGE, "fiancee", 'i' )+
COUNT(t1.MESSAGE, "sis", 'i' )+ COUNT(t1.MESSAGE, "mum", 'i' )+
COUNT(t1.MESSAGE, "cuz", 'i' )+
COUNT(t1.MESSAGE, "bro", 'i' )+ COUNT(t1.MESSAGE, "pop", 'i' ) )
LABEL="FamilyWords" AS FamilyWords,
/* PersPronoun */
(COUNT(t1.MESSAGE, "I ") + COUNT(t1.MESSAGE, "me ", 'i') +
COUNT(t1.MESSAGE, "my ", 'i') +
COUNT(t1.MESSAGE, "mine ", 'i') + COUNT(t1.MESSAGE, "you", 'i') +
COUNT(t1.MESSAGE, "your ", 'i') +
COUNT(t1.MESSAGE, "yours", 'i') + COUNT(t1.MESSAGE, "he ", 'i') +
COUNT(t1.MESSAGE, "she ", 'i') +
COUNT(t1.MESSAGE, " it ", 'i') + COUNT(t1.MESSAGE, "him", 'i') +
COUNT(t1.MESSAGE, "his", 'i') +
COUNT(t1.MESSAGE, "her", 'i') + COUNT(t1.MESSAGE, "its", 'i') +
COUNT(t1.MESSAGE, "ours", 'i') +
COUNT(t1.MESSAGE, "they", 'i') + COUNT(t1.MESSAGE, "hers", 'i') +
COUNT(t1.MESSAGE, "we ", 'i') +

```

```

COUNT(t1.MESSAGE, " us ", 'i') + COUNT(t1.MESSAGE, "our ", 'i') +
COUNT(t1.MESSAGE, "them", 'i') +
COUNT(t1.MESSAGE, "their", 'i') + COUNT(t1.MESSAGE, "theirs", 'i') +
COUNT(t1.MESSAGE, "u ", 'i') +
COUNT(t1.MESSAGE, "u?", 'i')) LABEL="PersPronoun" AS PersPronoun,
/* REFpronouns */
(COUNT(t1.MESSAGE, "myself", 'i') + COUNT(t1.MESSAGE, "yourself", 'i')+
COUNT(t1.MESSAGE, "thyself", 'i')+
COUNT(t1.MESSAGE, "himself", 'i')+ COUNT(t1.MESSAGE, "hissel", 'i')+
COUNT(t1.MESSAGE, "herself", 'i')+
COUNT(t1.MESSAGE, "itself", 'i')+ COUNT(t1.MESSAGE, "oneself", 'i')+
COUNT(t1.MESSAGE, "ourselves", 'i')+
COUNT(t1.MESSAGE, "ourself", 'i')+ COUNT(t1.MESSAGE, "yourselves", 'i')+
COUNT(t1.MESSAGE, "themself", 'i')
)+ COUNT(t1.MESSAGE, "themselves", 'i')+ COUNT(t1.MESSAGE, "theirselves", 'i'))
LABEL="REFpronouns" AS
REFpronouns,
/* XOCOUNT */
(COUNT(t1.MESSAGE, "xo", 'i')) LABEL="XOCOUNT" AS XOCOUNT,
/* ModalVerbs */
(COUNT(t1.MESSAGE, "can", 'i') + COUNT(t1.MESSAGE, "could", 'i') +
COUNT(t1.MESSAGE, "may", 'i') +
COUNT(t1.MESSAGE, "might", 'i') + COUNT(t1.MESSAGE, "shall", 'i') +
COUNT(t1.MESSAGE, "shall", 'i') +
COUNT(t1.MESSAGE, "should", 'i') + COUNT(t1.MESSAGE, "will", 'i') +
COUNT(t1.MESSAGE, "would", 'i') +
COUNT(t1.MESSAGE, "must", 'i') + COUNT(t1.MESSAGE, "ought", 'i') +
COUNT(t1.MESSAGE, "dare", 'i') +
COUNT(t1.MESSAGE, "need", 'i') + COUNT(t1.MESSAGE, "darest", 'i') +
COUNT(t1.MESSAGE, "had better", 'i') +
COUNT(t1.MESSAGE, "used to", 'i')) LABEL="ModalVerbs" AS ModalVerbs,
/* Stretch_Index */
(COUNT(t1.MESSAGE, "aaa", "i")+ COUNT(t1.MESSAGE, "bbb", "i")+
COUNT(t1.MESSAGE, "ccc", "i")+
COUNT(t1.MESSAGE, "ddd", "i")+ COUNT(t1.MESSAGE, "eee", "i")+
COUNT(t1.MESSAGE, "fff", "i")+
COUNT(t1.MESSAGE, "ggg", "i")+ COUNT(t1.MESSAGE, "hhh", "i")+
COUNT(t1.MESSAGE, "iii", "i")+
COUNT(t1.MESSAGE, "jjj", "i")+ COUNT(t1.MESSAGE, "kkk", "i")+
COUNT(t1.MESSAGE, "lll", "i")+
COUNT(t1.MESSAGE, "mmm", "i")+ COUNT(t1.MESSAGE, "nnn", "i")+
COUNT(t1.MESSAGE, "ooo", "i")+

```

```

COUNT(t1.MESSAGE, "ppp", "i")+ COUNT(t1.MESSAGE, "qqq", "i")+
COUNT(t1.MESSAGE, "rrr", "i")+
COUNT(t1.MESSAGE, "sss", "i")+ COUNT(t1.MESSAGE, "ttt", "i")+
COUNT(t1.MESSAGE, "uuu", "i")+
COUNT(t1.MESSAGE, "vvv", "i")+ COUNT(t1.MESSAGE, "www", "i")+
COUNT(t1.MESSAGE, "xxx", "i")+
COUNT(t1.MESSAGE, "yyy", "i")+ COUNT(t1.MESSAGE, "zzz", "i")+
COUNT(t1.MESSAGE, "111", "i")+
COUNT(t1.MESSAGE, "222", "i")+ COUNT(t1.MESSAGE, "333", "i")+
COUNT(t1.MESSAGE, "444", "i")+
COUNT(t1.MESSAGE, "555", "i")+ COUNT(t1.MESSAGE, "666", "i")+
COUNT(t1.MESSAGE, "777", "i")+
COUNT(t1.MESSAGE, "888", "i")+ COUNT(t1.MESSAGE, "999", "i")+
COUNT(t1.MESSAGE, "000", "i")+
COUNT(t1.MESSAGE, "``", "i")+ COUNT(t1.MESSAGE, "~~", "i")+
COUNT(t1.MESSAGE, "!!!", "i")+
COUNT(t1.MESSAGE, "@@@", "i")+ COUNT(t1.MESSAGE, "###", "i")+
COUNT(t1.MESSAGE, "$$$", "i")+
COUNT(t1.MESSAGE, "%%%", "i")+ COUNT(t1.MESSAGE, "^^^", "i")+
COUNT(t1.MESSAGE, "&&&", "i")+
COUNT(t1.MESSAGE, "***", "i")+ COUNT(t1.MESSAGE, "((((", "i")+
COUNT(t1.MESSAGE, ")))", "i")+
COUNT(t1.MESSAGE, "===", "i")+ COUNT(t1.MESSAGE, "+++", "i")+
COUNT(t1.MESSAGE, "\\\\", "i")+
COUNT(t1.MESSAGE, "|||", "i")+ COUNT(t1.MESSAGE, "[[[", "i")+
COUNT(t1.MESSAGE, "]]]", "i")+
COUNT(t1.MESSAGE, "}}}", "i")+ COUNT(t1.MESSAGE, "{{{{", "i")+
COUNT(t1.MESSAGE, "", "i")+ COUNT(t1.MESSAGE,
";;;", "i")+ COUNT(t1.MESSAGE, ":", "i")+ COUNT(t1.MESSAGE, "???", "i")+
COUNT(t1.MESSAGE, "///", "i")+
COUNT(t1.MESSAGE, "...", "i")+ COUNT(t1.MESSAGE, ",,,", "i")+
COUNT(t1.MESSAGE, "<<<", "i")+
COUNT(t1.MESSAGE, ">>>", "i")) LABEL="Stretch_Index" AS Stretch_Index,
/* NEGATION */
(IFN(INDEXW(t1.MESSAGE, "not")>=1, 1, 0) ) LABEL="NEGATION" AS NEGATION,
/* STOPWORDS */
(COUNT(t1.MESSAGE, "a", "i")+ COUNT(t1.MESSAGE, "able", "i")+
COUNT(t1.MESSAGE, "about", "i")+
COUNT(t1.MESSAGE, "across", "i")+ COUNT(t1.MESSAGE, "after", "i")+
COUNT(t1.MESSAGE, "all", "i")+
COUNT(t1.MESSAGE, "almost", "i")+ COUNT(t1.MESSAGE, "also", "i")+
COUNT(t1.MESSAGE, "am", "i")+

```

COUNT(t1.MESSAGE, "among", "i")+ COUNT(t1.MESSAGE, "an", "i")+
COUNT(t1.MESSAGE, "and", "i")+
COUNT(t1.MESSAGE, "any", "i")+ COUNT(t1.MESSAGE, "are", "i")+
COUNT(t1.MESSAGE, "as", "i")+
COUNT(t1.MESSAGE, "at", "i")+ COUNT(t1.MESSAGE, "be", "i")+
COUNT(t1.MESSAGE, "because", "i")+
COUNT(t1.MESSAGE, "been", "i")+ COUNT(t1.MESSAGE, "but", "i")+
COUNT(t1.MESSAGE, "by", "i")+
COUNT(t1.MESSAGE, "can", "i")+ COUNT(t1.MESSAGE, "cannot", "i")+
COUNT(t1.MESSAGE, "could", "i")+
COUNT(t1.MESSAGE, "dear", "i")+ COUNT(t1.MESSAGE, "did", "i")+
COUNT(t1.MESSAGE, "do", "i")+
COUNT(t1.MESSAGE, "does", "i")+ COUNT(t1.MESSAGE, "either", "i")+
COUNT(t1.MESSAGE, "else", "i")+
COUNT(t1.MESSAGE, "ever", "i")+ COUNT(t1.MESSAGE, "every", "i")+
COUNT(t1.MESSAGE, "for", "i")+
COUNT(t1.MESSAGE, "from", "i")+ COUNT(t1.MESSAGE, "get", "i")+
COUNT(t1.MESSAGE, "got", "i")+
COUNT(t1.MESSAGE, "had", "i")+ COUNT(t1.MESSAGE, "has", "i")+
COUNT(t1.MESSAGE, "have", "i")+
COUNT(t1.MESSAGE, "he", "i")+ COUNT(t1.MESSAGE, "her", "i")+
COUNT(t1.MESSAGE, "hers", "i")+
COUNT(t1.MESSAGE, "him", "i")+ COUNT(t1.MESSAGE, "his", "i")+
COUNT(t1.MESSAGE, "how", "i")+
COUNT(t1.MESSAGE, "however", "i")+ COUNT(t1.MESSAGE, "i", "i")+
COUNT(t1.MESSAGE, "if", "i")+
COUNT(t1.MESSAGE, "in", "i")+ COUNT(t1.MESSAGE, "into", "i")+
COUNT(t1.MESSAGE, "is", "i")+
COUNT(t1.MESSAGE, "it", "i")+ COUNT(t1.MESSAGE, "its", "i")+
COUNT(t1.MESSAGE, "just", "i")+
COUNT(t1.MESSAGE, "least", "i")+ COUNT(t1.MESSAGE, "let", "i")+
COUNT(t1.MESSAGE, "like", "i")+
COUNT(t1.MESSAGE, "likely", "i")+ COUNT(t1.MESSAGE, "may", "i")+
COUNT(t1.MESSAGE, "me", "i")+
COUNT(t1.MESSAGE, "might", "i")+ COUNT(t1.MESSAGE, "most", "i")+
COUNT(t1.MESSAGE, "must", "i")+
COUNT(t1.MESSAGE, "my", "i")+ COUNT(t1.MESSAGE, "neither", "i")+
COUNT(t1.MESSAGE, "no", "i")+
COUNT(t1.MESSAGE, "nor", "i")+ COUNT(t1.MESSAGE, "not", "i")+
COUNT(t1.MESSAGE, "of", "i")+
COUNT(t1.MESSAGE, "off", "i")+ COUNT(t1.MESSAGE, "often", "i")+
COUNT(t1.MESSAGE, "on", "i")+

```

COUNT(t1.MESSAGE, "only", "i")+ COUNT(t1.MESSAGE, "or", "i")+
COUNT(t1.MESSAGE, "other", "i")+
COUNT(t1.MESSAGE, "our", "i")+ COUNT(t1.MESSAGE, "own", "i")+
COUNT(t1.MESSAGE, "rather", "i")+
COUNT(t1.MESSAGE, "said", "i")+ COUNT(t1.MESSAGE, "say", "i")+
COUNT(t1.MESSAGE, "says", "i")+
COUNT(t1.MESSAGE, "she", "i")+ COUNT(t1.MESSAGE, "should", "i")+
COUNT(t1.MESSAGE, "since", "i")+
COUNT(t1.MESSAGE, "so", "i")+ COUNT(t1.MESSAGE, "some", "i")+
COUNT(t1.MESSAGE, "than", "i")+
COUNT(t1.MESSAGE, "that", "i")+ COUNT(t1.MESSAGE, "the", "i")+
COUNT(t1.MESSAGE, "their", "i")+
COUNT(t1.MESSAGE, "them", "i")+ COUNT(t1.MESSAGE, "then", "i")+
COUNT(t1.MESSAGE, "there", "i")+
COUNT(t1.MESSAGE, "these", "i")+ COUNT(t1.MESSAGE, "they", "i")+
COUNT(t1.MESSAGE, "this", "i")+
COUNT(t1.MESSAGE, "tis", "i")+ COUNT(t1.MESSAGE, "to", "i")+
COUNT(t1.MESSAGE, "too", "i")+
COUNT(t1.MESSAGE, "twas", "i")+ COUNT(t1.MESSAGE, "us", "i")+
COUNT(t1.MESSAGE, "wants", "i")+
COUNT(t1.MESSAGE, "was", "i")+ COUNT(t1.MESSAGE, "we", "i")+
COUNT(t1.MESSAGE, "were", "i")+
COUNT(t1.MESSAGE, "what", "i")+ COUNT(t1.MESSAGE, "when", "i")+
COUNT(t1.MESSAGE, "where", "i")+
COUNT(t1.MESSAGE, "which", "i")+ COUNT(t1.MESSAGE, "while", "i")+
COUNT(t1.MESSAGE, "who", "i")+
COUNT(t1.MESSAGE, "whom", "i")+ COUNT(t1.MESSAGE, "why", "i")+
COUNT(t1.MESSAGE, "will", "i")+
COUNT(t1.MESSAGE, "with", "i")+ COUNT(t1.MESSAGE, "would", "i")+
COUNT(t1.MESSAGE, "yet", "i")+
COUNT(t1.MESSAGE, "you", "i")+ COUNT(t1.MESSAGE, "your", "i"))
LABEL="STOPWORDS" AS STOPWORDS,
/* EMO_Obscurity */
(IFN((COUNTC(t1.MESSAGE, "-:~", "i")=1), 2.93, 0,0)) LABEL="EMO_Obscurity" AS
EMO_Obscurity,
/* NULLSPACE */
(COMPARE(t1.MESSAGE, " ")) LABEL="NULLSPACE" AS NULLSPACE,
/* NULLPERIOD */
(COMPARE(t1.MESSAGE, ".")) LABEL="NULLPERIOD" AS NULLPERIOD,
/* NULL_SINGLE */
(LENGTH(t1.MESSAGE)) LABEL="NULL_SINGLE" AS NULL_SINGLE,
/* DESENSWORD */
(COUNT(t1.MESSAGE, "4r5e", "i"))

```

+ COUNT(t1.MESSAGE, "5h1t", " i")
+ COUNT(t1.MESSAGE, "5hit", " i")
+ COUNT(t1.MESSAGE, "a_s_s", " i")
+ COUNT(t1.MESSAGE, "a55", " i")
+ COUNT(t1.MESSAGE, "anal", " i")
+ COUNT(t1.MESSAGE, "anus", " i")
+ COUNT(t1.MESSAGE, "ar5e", " i")
+ COUNT(t1.MESSAGE, "arrse", " i")
+ COUNT(t1.MESSAGE, "arse", " i")
+ COUNT(t1.MESSAGE, "ass", " i")
+ COUNT(t1.MESSAGE, "asses", " i")
+ COUNT(t1.MESSAGE, "assfucker", " i")
+ COUNT(t1.MESSAGE, "ass-fucker", " i")
+ COUNT(t1.MESSAGE, "assfukka", " i")
+ COUNT(t1.MESSAGE, "asshole", " i")
+ COUNT(t1.MESSAGE, "assholes", " i")
+ COUNT(t1.MESSAGE, "asswhole", " i")
+ COUNT(t1.MESSAGE, "b!tch", " i")
+ COUNT(t1.MESSAGE, "b00bs", " i")
+ COUNT(t1.MESSAGE, "b17ch", " i")
+ COUNT(t1.MESSAGE, "b1tch", " i")
+ COUNT(t1.MESSAGE, "ballbag", " i")
+ COUNT(t1.MESSAGE, "balls", " i")
+ COUNT(t1.MESSAGE, "ballsack", " i")
+ COUNT(t1.MESSAGE, "bastard", " i")
+ COUNT(t1.MESSAGE, "beastial", " i")
+ COUNT(t1.MESSAGE, "beastiality", " i")
+ COUNT(t1.MESSAGE, "bellend", " i")
+ COUNT(t1.MESSAGE, "bestial", " i")
+ COUNT(t1.MESSAGE, "bestiality", " i")
+ COUNT(t1.MESSAGE, "bi+ch", " i")
+ COUNT(t1.MESSAGE, "biatch", " i")
+ COUNT(t1.MESSAGE, "bitch", " i")
+ COUNT(t1.MESSAGE, "bitcher", " i")
+ COUNT(t1.MESSAGE, "bitchers", " i")
+ COUNT(t1.MESSAGE, "bitches", " i")
+ COUNT(t1.MESSAGE, "bitchin", " i")
+ COUNT(t1.MESSAGE, "bitching", " i")
+ COUNT(t1.MESSAGE, "bloody", " i")
+ COUNT(t1.MESSAGE, "blow job", " i")
+ COUNT(t1.MESSAGE, "blowjob", " i")
+ COUNT(t1.MESSAGE, "blowjobs", " i")
+ COUNT(t1.MESSAGE, "boiolas", " i")

+ COUNT(t1.MESSAGE, "bollock", " i")
+ COUNT(t1.MESSAGE, "bollok", " i")
+ COUNT(t1.MESSAGE, "boner", " i")
+ COUNT(t1.MESSAGE, "boob", " i")
+ COUNT(t1.MESSAGE, "boobs", " i")
+ COUNT(t1.MESSAGE, "boooobs", " i")
+ COUNT(t1.MESSAGE, "booooobs", " i")
+ COUNT(t1.MESSAGE, "boooooobs", " i")
+ COUNT(t1.MESSAGE, "booooooobs", " i")
+ COUNT(t1.MESSAGE, "breasts", " i")
+ COUNT(t1.MESSAGE, "buceta", " i")
+ COUNT(t1.MESSAGE, "bugger", " i")
+ COUNT(t1.MESSAGE, "bum", " i")
+ COUNT(t1.MESSAGE, "bunny fucker", " i")
+ COUNT(t1.MESSAGE, "butt", " i")
+ COUNT(t1.MESSAGE, "butthole", " i")
+ COUNT(t1.MESSAGE, "buttmuch", " i")
+ COUNT(t1.MESSAGE, "buttplug", " i")
+ COUNT(t1.MESSAGE, "c0ck", " i")
+ COUNT(t1.MESSAGE, "c0cksucker", " i")
+ COUNT(t1.MESSAGE, "carpet muncher", " i")
+ COUNT(t1.MESSAGE, "cawk", " i")
+ COUNT(t1.MESSAGE, "chink", " i")
+ COUNT(t1.MESSAGE, "cipa", " i")
+ COUNT(t1.MESSAGE, "cl1t", " i")
+ COUNT(t1.MESSAGE, "clit", " i")
+ COUNT(t1.MESSAGE, "clitoris", " i")
+ COUNT(t1.MESSAGE, "clits", " i")
+ COUNT(t1.MESSAGE, "cnut", " i")
+ COUNT(t1.MESSAGE, "cock", " i")
+ COUNT(t1.MESSAGE, "cockface", " i")
+ COUNT(t1.MESSAGE, "cockhead", " i")
+ COUNT(t1.MESSAGE, "cockmunch", " i")
+ COUNT(t1.MESSAGE, "cockmuncher", " i")
+ COUNT(t1.MESSAGE, "cocks", " i")
+ COUNT(t1.MESSAGE, "cocksuck ", " i")
+ COUNT(t1.MESSAGE, "cocksucked ", " i")
+ COUNT(t1.MESSAGE, "cocksucker", " i")
+ COUNT(t1.MESSAGE, "cock-sucker", " i")
+ COUNT(t1.MESSAGE, "cocksucking", " i")
+ COUNT(t1.MESSAGE, "cocksucks ", " i")
+ COUNT(t1.MESSAGE, "cocksuka", " i")
+ COUNT(t1.MESSAGE, "cocksukka", " i")

+ COUNT(t1.MESSAGE, "cok", " i")
+ COUNT(t1.MESSAGE, "cokmuncher", " i")
+ COUNT(t1.MESSAGE, "coksucka", " i")
+ COUNT(t1.MESSAGE, "coon", " i")
+ COUNT(t1.MESSAGE, "cox", " i")
+ COUNT(t1.MESSAGE, "crap", " i")
+ COUNT(t1.MESSAGE, "cum", " i")
+ COUNT(t1.MESSAGE, "cummer", " i")
+ COUNT(t1.MESSAGE, "cumming", " i")
+ COUNT(t1.MESSAGE, "cums", " i")
+ COUNT(t1.MESSAGE, "cumshot", " i")
+ COUNT(t1.MESSAGE, "cunilingus", " i")
+ COUNT(t1.MESSAGE, "cunillingus", " i")
+ COUNT(t1.MESSAGE, "cunnilingus", " i")
+ COUNT(t1.MESSAGE, "cunt", " i")
+ COUNT(t1.MESSAGE, "cuntlick ", " i")
+ COUNT(t1.MESSAGE, "cuntlicker ", " i")
+ COUNT(t1.MESSAGE, "cuntlicking ", " i")
+ COUNT(t1.MESSAGE, "cunts", " i")
+ COUNT(t1.MESSAGE, "cyalis", " i")
+ COUNT(t1.MESSAGE, "cyberfuc", " i")
+ COUNT(t1.MESSAGE, "cyberfuck ", " i")
+ COUNT(t1.MESSAGE, "cyberfucked ", " i")
+ COUNT(t1.MESSAGE, "cyberfucker", " i")
+ COUNT(t1.MESSAGE, "cyberfuckers", " i")
+ COUNT(t1.MESSAGE, "cyberfucking ", " i")
+ COUNT(t1.MESSAGE, "d1ck", " i")
+ COUNT(t1.MESSAGE, "damn", " i")
+ COUNT(t1.MESSAGE, "dick", " i")
+ COUNT(t1.MESSAGE, "dickhead", " i")
+ COUNT(t1.MESSAGE, "dildo", " i")
+ COUNT(t1.MESSAGE, "dildos", " i")
+ COUNT(t1.MESSAGE, "dink", " i")
+ COUNT(t1.MESSAGE, "dinks", " i")
+ COUNT(t1.MESSAGE, "dirsa", " i")
+ COUNT(t1.MESSAGE, "dlck", " i")
+ COUNT(t1.MESSAGE, "dog-fucker", " i")
+ COUNT(t1.MESSAGE, "doggin", " i")
+ COUNT(t1.MESSAGE, "dogging", " i")
+ COUNT(t1.MESSAGE, "donkeyribber", " i")
+ COUNT(t1.MESSAGE, "doosh", " i")
+ COUNT(t1.MESSAGE, "duche", " i")
+ COUNT(t1.MESSAGE, "dyke", " i")

+ COUNT(t1.MESSAGE, "ejaculate", " i")
+ COUNT(t1.MESSAGE, "ejaculated", " i")
+ COUNT(t1.MESSAGE, "ejaculates ", " i")
+ COUNT(t1.MESSAGE, "ejaculating ", " i")
+ COUNT(t1.MESSAGE, "ejaculatings", " i")
+ COUNT(t1.MESSAGE, "ejaculation", " i")
+ COUNT(t1.MESSAGE, "ejakulate", " i")
+ COUNT(t1.MESSAGE, "f u c k", " i")
+ COUNT(t1.MESSAGE, "f u c k e r", " i")
+ COUNT(t1.MESSAGE, "f_u_c_k", " i")
+ COUNT(t1.MESSAGE, "f4nny", " i")
+ COUNT(t1.MESSAGE, "fag", " i")
+ COUNT(t1.MESSAGE, "fagging", " i")
+ COUNT(t1.MESSAGE, "faggitt", " i")
+ COUNT(t1.MESSAGE, "faggot", " i")
+ COUNT(t1.MESSAGE, "faggs", " i")
+ COUNT(t1.MESSAGE, "fagot", " i")
+ COUNT(t1.MESSAGE, "fagots", " i")
+ COUNT(t1.MESSAGE, "fags", " i")
+ COUNT(t1.MESSAGE, "fanny", " i")
+ COUNT(t1.MESSAGE, "fannyflaps", " i")
+ COUNT(t1.MESSAGE, "fannyfucker", " i")
+ COUNT(t1.MESSAGE, "fanyy", " i")
+ COUNT(t1.MESSAGE, "fatass", " i")
+ COUNT(t1.MESSAGE, "fcuk", " i")
+ COUNT(t1.MESSAGE, "fcuker", " i")
+ COUNT(t1.MESSAGE, "fcuking", " i")
+ COUNT(t1.MESSAGE, "feck", " i")
+ COUNT(t1.MESSAGE, "fecker", " i")
+ COUNT(t1.MESSAGE, "felching", " i")
+ COUNT(t1.MESSAGE, "fellate", " i")
+ COUNT(t1.MESSAGE, "fellatio", " i")
+ COUNT(t1.MESSAGE, "fingerfuck ", " i")
+ COUNT(t1.MESSAGE, "fingerfucked ", " i")
+ COUNT(t1.MESSAGE, "fingerfucker ", " i")
+ COUNT(t1.MESSAGE, "fingerfuckers", " i")
+ COUNT(t1.MESSAGE, "fingerfucking ", " i")
+ COUNT(t1.MESSAGE, "fingerfucks ", " i")
+ COUNT(t1.MESSAGE, "fistfuck", " i")
+ COUNT(t1.MESSAGE, "fistfucked ", " i")
+ COUNT(t1.MESSAGE, "fistfucker ", " i")
+ COUNT(t1.MESSAGE, "fistfuckers ", " i")
+ COUNT(t1.MESSAGE, "fistfucking ", " i")

+ COUNT(t1.MESSAGE, "fistfuckings ", " i")
+ COUNT(t1.MESSAGE, "fistfucks ", " i")
+ COUNT(t1.MESSAGE, "flange", " i")
+ COUNT(t1.MESSAGE, "fook", " i")
+ COUNT(t1.MESSAGE, "fooker", " i")
+ COUNT(t1.MESSAGE, "fuck", " i")
+ COUNT(t1.MESSAGE, "fucka", " i")
+ COUNT(t1.MESSAGE, "fucked", " i")
+ COUNT(t1.MESSAGE, "fucker", " i")
+ COUNT(t1.MESSAGE, "fuckers", " i")
+ COUNT(t1.MESSAGE, "fuckhead", " i")
+ COUNT(t1.MESSAGE, "fuckheads", " i")
+ COUNT(t1.MESSAGE, "fuckin", " i")
+ COUNT(t1.MESSAGE, "fucking", " i")
+ COUNT(t1.MESSAGE, "fuckings", " i")
+ COUNT(t1.MESSAGE, "fuckingshitmotherfucker", " i")
+ COUNT(t1.MESSAGE, "fuckme ", " i")
+ COUNT(t1.MESSAGE, "fucks", " i")
+ COUNT(t1.MESSAGE, "fuckwhit", " i")
+ COUNT(t1.MESSAGE, "fuckwit", " i")
+ COUNT(t1.MESSAGE, "fudge packer", " i")
+ COUNT(t1.MESSAGE, "fudgepacker", " i")
+ COUNT(t1.MESSAGE, "fuk", " i")
+ COUNT(t1.MESSAGE, "fuker", " i")
+ COUNT(t1.MESSAGE, "fukker", " i")
+ COUNT(t1.MESSAGE, "fukkin", " i")
+ COUNT(t1.MESSAGE, "fuks", " i")
+ COUNT(t1.MESSAGE, "fukwhit", " i")
+ COUNT(t1.MESSAGE, "fukwit", " i")
+ COUNT(t1.MESSAGE, "fux", " i")
+ COUNT(t1.MESSAGE, "fux0r", " i")
+ COUNT(t1.MESSAGE, "gangbang", " i")
+ COUNT(t1.MESSAGE, "gangbanged ", " i")
+ COUNT(t1.MESSAGE, "gangbangs ", " i")
+ COUNT(t1.MESSAGE, "gaylord", " i")
+ COUNT(t1.MESSAGE, "gaysex", " i")
+ COUNT(t1.MESSAGE, "goatse", " i")
+ COUNT(t1.MESSAGE, "God", " i")
+ COUNT(t1.MESSAGE, "God damn", " i")
+ COUNT(t1.MESSAGE, "god-dam", " i")
+ COUNT(t1.MESSAGE, "goddamn", " i")
+ COUNT(t1.MESSAGE, "goddamned", " i")
+ COUNT(t1.MESSAGE, "god-damned", " i")

+ COUNT(t1.MESSAGE, "hardcoresex ", " i")
+ COUNT(t1.MESSAGE, "hell", " i")
+ COUNT(t1.MESSAGE, "heshe", " i")
+ COUNT(t1.MESSAGE, "hoar", " i")
+ COUNT(t1.MESSAGE, "hoare", " i")
+ COUNT(t1.MESSAGE, "hoer", " i")
+ COUNT(t1.MESSAGE, "homo", " i")
+ COUNT(t1.MESSAGE, "hore", " i")
+ COUNT(t1.MESSAGE, "horniest", " i")
+ COUNT(t1.MESSAGE, "horny", " i")
+ COUNT(t1.MESSAGE, "hotsex", " i")
+ COUNT(t1.MESSAGE, "jackoff", " i")
+ COUNT(t1.MESSAGE, "jack-off ", " i")
+ COUNT(t1.MESSAGE, "jap", " i")
+ COUNT(t1.MESSAGE, "jerk", " i")
+ COUNT(t1.MESSAGE, "jerk-off ", " i")
+ COUNT(t1.MESSAGE, "jism", " i")
+ COUNT(t1.MESSAGE, "jiz ", " i")
+ COUNT(t1.MESSAGE, "jizm ", " i")
+ COUNT(t1.MESSAGE, "jizz", " i")
+ COUNT(t1.MESSAGE, "kaw", " i")
+ COUNT(t1.MESSAGE, "knob", " i")
+ COUNT(t1.MESSAGE, "knob end", " i")
+ COUNT(t1.MESSAGE, "knobead", " i")
+ COUNT(t1.MESSAGE, "knobed", " i")
+ COUNT(t1.MESSAGE, "knobend", " i")
+ COUNT(t1.MESSAGE, "knobhead", " i")
+ COUNT(t1.MESSAGE, "knobjocky", " i")
+ COUNT(t1.MESSAGE, "knobjokey", " i")
+ COUNT(t1.MESSAGE, "kock", " i")
+ COUNT(t1.MESSAGE, "kondum", " i")
+ COUNT(t1.MESSAGE, "kondums", " i")
+ COUNT(t1.MESSAGE, "kum", " i")
+ COUNT(t1.MESSAGE, "kummer", " i")
+ COUNT(t1.MESSAGE, "kumming", " i")
+ COUNT(t1.MESSAGE, "kums", " i")
+ COUNT(t1.MESSAGE, "kunilingus", " i")
+ COUNT(t1.MESSAGE, "l3i+ch", " i")
+ COUNT(t1.MESSAGE, "l3itch", " i")
+ COUNT(t1.MESSAGE, "labia", " i")
+ COUNT(t1.MESSAGE, "lmao", " i")
+ COUNT(t1.MESSAGE, "lmfao", " i")
+ COUNT(t1.MESSAGE, "lust", " i")

+ COUNT(t1.MESSAGE, "lusting", " i")
+ COUNT(t1.MESSAGE, "m0f0", " i")
+ COUNT(t1.MESSAGE, "m0fo", " i")
+ COUNT(t1.MESSAGE, "m45terbate", " i")
+ COUNT(t1.MESSAGE, "ma5terb8", " i")
+ COUNT(t1.MESSAGE, "ma5terbate", " i")
+ COUNT(t1.MESSAGE, "masochist", " i")
+ COUNT(t1.MESSAGE, "masterb8", " i")
+ COUNT(t1.MESSAGE, "masterbat*", " i")
+ COUNT(t1.MESSAGE, "masterbat3", " i")
+ COUNT(t1.MESSAGE, "masterbate", " i")
+ COUNT(t1.MESSAGE, "master-bate", " i")
+ COUNT(t1.MESSAGE, "masterbation", " i")
+ COUNT(t1.MESSAGE, "masterbations", " i")
+ COUNT(t1.MESSAGE, "masturbate", " i")
+ COUNT(t1.MESSAGE, "mof0", " i")
+ COUNT(t1.MESSAGE, "mofo", " i")
+ COUNT(t1.MESSAGE, "mo-fo", " i")
+ COUNT(t1.MESSAGE, "mothafuck", " i")
+ COUNT(t1.MESSAGE, "mothafucka", " i")
+ COUNT(t1.MESSAGE, "mothafuckas", " i")
+ COUNT(t1.MESSAGE, "mothafuckaz", " i")
+ COUNT(t1.MESSAGE, "mothafucked", " i")
+ COUNT(t1.MESSAGE, "mothafucker", " i")
+ COUNT(t1.MESSAGE, "mothafuckers", " i")
+ COUNT(t1.MESSAGE, "mothafuckin", " i")
+ COUNT(t1.MESSAGE, "mothafucking ", " i")
+ COUNT(t1.MESSAGE, "mothafuckings", " i")
+ COUNT(t1.MESSAGE, "mothafucks", " i")
+ COUNT(t1.MESSAGE, "mother fucker", " i")
+ COUNT(t1.MESSAGE, "motherfuck", " i")
+ COUNT(t1.MESSAGE, "motherfucked", " i")
+ COUNT(t1.MESSAGE, "motherfucker", " i")
+ COUNT(t1.MESSAGE, "motherfuckers", " i")
+ COUNT(t1.MESSAGE, "motherfuckin", " i")
+ COUNT(t1.MESSAGE, "motherfucking", " i")
+ COUNT(t1.MESSAGE, "motherfuckings", " i")
+ COUNT(t1.MESSAGE, "motherfuckka", " i")
+ COUNT(t1.MESSAGE, "motherfucks", " i")
+ COUNT(t1.MESSAGE, "muff", " i")
+ COUNT(t1.MESSAGE, "mutha", " i")
+ COUNT(t1.MESSAGE, "muthafecker", " i")
+ COUNT(t1.MESSAGE, "muthafuckker", " i")

+ COUNT(t1.MESSAGE, "muther", " i")
+ COUNT(t1.MESSAGE, "mutherfucker", " i")
+ COUNT(t1.MESSAGE, "n1gga", " i")
+ COUNT(t1.MESSAGE, "n1gger", " i")
+ COUNT(t1.MESSAGE, "nazi", " i")
+ COUNT(t1.MESSAGE, "nigg3r", " i")
+ COUNT(t1.MESSAGE, "nigg4h", " i")
+ COUNT(t1.MESSAGE, "nigga", " i")
+ COUNT(t1.MESSAGE, "niggah", " i")
+ COUNT(t1.MESSAGE, "niggas", " i")
+ COUNT(t1.MESSAGE, "niggaz", " i")
+ COUNT(t1.MESSAGE, "nigger", " i")
+ COUNT(t1.MESSAGE, "niggers ", " i")
+ COUNT(t1.MESSAGE, "nob", " i")
+ COUNT(t1.MESSAGE, "nob jokey", " i")
+ COUNT(t1.MESSAGE, "nobhead", " i")
+ COUNT(t1.MESSAGE, "nobjocky", " i")
+ COUNT(t1.MESSAGE, "nobjokey", " i")
+ COUNT(t1.MESSAGE, "numbnuts", " i")
+ COUNT(t1.MESSAGE, "nutsack", " i")
+ COUNT(t1.MESSAGE, "omg", " i")
+ COUNT(t1.MESSAGE, "orgasim ", " i")
+ COUNT(t1.MESSAGE, "orgasims ", " i")
+ COUNT(t1.MESSAGE, "orgasm", " i")
+ COUNT(t1.MESSAGE, "orgasms ", " i")
+ COUNT(t1.MESSAGE, "p0rn", " i")
+ COUNT(t1.MESSAGE, "pawn", " i")
+ COUNT(t1.MESSAGE, "pecker", " i")
+ COUNT(t1.MESSAGE, "penis", " i")
+ COUNT(t1.MESSAGE, "penisfucker", " i")
+ COUNT(t1.MESSAGE, "phonesex", " i")
+ COUNT(t1.MESSAGE, "phuck", " i")
+ COUNT(t1.MESSAGE, "phuk", " i")
+ COUNT(t1.MESSAGE, "phuked", " i")
+ COUNT(t1.MESSAGE, "phuking", " i")
+ COUNT(t1.MESSAGE, "phukked", " i")
+ COUNT(t1.MESSAGE, "phukking", " i")
+ COUNT(t1.MESSAGE, "phuks", " i")
+ COUNT(t1.MESSAGE, "phuq", " i")
+ COUNT(t1.MESSAGE, "pigfucker", " i")
+ COUNT(t1.MESSAGE, "pimpis", " i")
+ COUNT(t1.MESSAGE, "piss", " i")
+ COUNT(t1.MESSAGE, "pissed", " i")

+ COUNT(t1.MESSAGE, "pisser", " i")
+ COUNT(t1.MESSAGE, "pissers", " i")
+ COUNT(t1.MESSAGE, "pisses ", " i")
+ COUNT(t1.MESSAGE, "pissflaps", " i")
+ COUNT(t1.MESSAGE, "pissin ", " i")
+ COUNT(t1.MESSAGE, "pissing", " i")
+ COUNT(t1.MESSAGE, "pissoff ", " i")
+ COUNT(t1.MESSAGE, "poop", " i")
+ COUNT(t1.MESSAGE, "porn", " i")
+ COUNT(t1.MESSAGE, "porno", " i")
+ COUNT(t1.MESSAGE, "pornography", " i")
+ COUNT(t1.MESSAGE, " pornos", " i")
+ COUNT(t1.MESSAGE, "prick", " i")
+ COUNT(t1.MESSAGE, "pricks ", " i")
+ COUNT(t1.MESSAGE, "pron", " i")
+ COUNT(t1.MESSAGE, "pube", " i")
+ COUNT(t1.MESSAGE, "pusse", " i")
+ COUNT(t1.MESSAGE, "pussi", " i")
+ COUNT(t1.MESSAGE, "pussies", " i")
+ COUNT(t1.MESSAGE, "pussy", " i")
+ COUNT(t1.MESSAGE, "pussys ", " i")
+ COUNT(t1.MESSAGE, "queer", " i")
+ COUNT(t1.MESSAGE, "rectum", " i")
+ COUNT(t1.MESSAGE, "retard", " i")
+ COUNT(t1.MESSAGE, "rimjaw", " i")
+ COUNT(t1.MESSAGE, "rimming", " i")
+ COUNT(t1.MESSAGE, "s hit", " i")
+ COUNT(t1.MESSAGE, "s.o.b.", " i")
+ COUNT(t1.MESSAGE, "s_h_i_t", " i")
+ COUNT(t1.MESSAGE, "sadist", " i")
+ COUNT(t1.MESSAGE, "schlong", " i")
+ COUNT(t1.MESSAGE, "screwing", " i")
+ COUNT(t1.MESSAGE, "screwed", "i")
+ COUNT(t1.MESSAGE, "scroat", " i")
+ COUNT(t1.MESSAGE, "scrote", " i")
+ COUNT(t1.MESSAGE, "scrotum", " i")
+ COUNT(t1.MESSAGE, "semen", " i")
+ COUNT(t1.MESSAGE, "sex", " i")
+ COUNT(t1.MESSAGE, "sh!+", " i")
+ COUNT(t1.MESSAGE, "sh!t", " i")
+ COUNT(t1.MESSAGE, "sh1t", " i")
+ COUNT(t1.MESSAGE, "shag", " i")
+ COUNT(t1.MESSAGE, "shagger", " i")

+ COUNT(t1.MESSAGE, "shaggin", " i")
+ COUNT(t1.MESSAGE, "shagging", " i")
+ COUNT(t1.MESSAGE, "shemale", " i")
+ COUNT(t1.MESSAGE, "shi+", " i")
+ COUNT(t1.MESSAGE, "shit", " i")
+ COUNT(t1.MESSAGE, "shitedick", " i")
+ COUNT(t1.MESSAGE, "shite", " i")
+ COUNT(t1.MESSAGE, "shited", " i")
+ COUNT(t1.MESSAGE, "shitey", " i")
+ COUNT(t1.MESSAGE, "shitfuck", " i")
+ COUNT(t1.MESSAGE, "shitfull", " i")
+ COUNT(t1.MESSAGE, "shithead", " i")
+ COUNT(t1.MESSAGE, "shiting", " i")
+ COUNT(t1.MESSAGE, "shitings", " i")
+ COUNT(t1.MESSAGE, "shits", " i")
+ COUNT(t1.MESSAGE, "shitted", " i")
+ COUNT(t1.MESSAGE, "shitter", " i")
+ COUNT(t1.MESSAGE, "shitters ", " i")
+ COUNT(t1.MESSAGE, "shitting", " i")
+ COUNT(t1.MESSAGE, "shittings", " i")
+ COUNT(t1.MESSAGE, "shitty ", " i")
+ COUNT(t1.MESSAGE, "skank", " i")
+ COUNT(t1.MESSAGE, "slut", " i")
+ COUNT(t1.MESSAGE, "sluts", " i")
+ COUNT(t1.MESSAGE, "smegma", " i")
+ COUNT(t1.MESSAGE, "smut", " i")
+ COUNT(t1.MESSAGE, "snatch", " i")
+ COUNT(t1.MESSAGE, "son-of-a-bitch", " i")
+ COUNT(t1.MESSAGE, "spac", " i")
+ COUNT(t1.MESSAGE, "spunk", " i")
+ COUNT(t1.MESSAGE, "t1tt1e5", " i")
+ COUNT(t1.MESSAGE, "t1tties", " i")
+ COUNT(t1.MESSAGE, "teets", " i")
+ COUNT(t1.MESSAGE, "teez", " i")
+ COUNT(t1.MESSAGE, "testical", " i")
+ COUNT(t1.MESSAGE, "testicle", " i")
+ COUNT(t1.MESSAGE, "tit", " i")
+ COUNT(t1.MESSAGE, "titfuck", " i")
+ COUNT(t1.MESSAGE, "tits", " i")
+ COUNT(t1.MESSAGE, "titt", " i")
+ COUNT(t1.MESSAGE, "tittie5", " i")
+ COUNT(t1.MESSAGE, "tittiefucker", " i")
+ COUNT(t1.MESSAGE, "titties", " i")

```

+ COUNT(t1.MESSAGE, "tittyfuck", " i")
+ COUNT(t1.MESSAGE, "tittywank", " i")
+ COUNT(t1.MESSAGE, "titwank", " i")
+ COUNT(t1.MESSAGE, "tosser", " i")
+ COUNT(t1.MESSAGE, "turd", " i")
+ COUNT(t1.MESSAGE, "tw4t", " i")
+ COUNT(t1.MESSAGE, "twat", " i")
+ COUNT(t1.MESSAGE, "twathead", " i")
+ COUNT(t1.MESSAGE, "twatty", " i")
+ COUNT(t1.MESSAGE, "twunt", " i")
+ COUNT(t1.MESSAGE, "twunter", " i")
+ COUNT(t1.MESSAGE, "v14gra", " i")
+ COUNT(t1.MESSAGE, "v1gra", " i")
+ COUNT(t1.MESSAGE, "vagina", " i")
+ COUNT(t1.MESSAGE, "viagra", " i")
+ COUNT(t1.MESSAGE, "vulva", " i")
+ COUNT(t1.MESSAGE, "w00se", " i")
+ COUNT(t1.MESSAGE, "wang", " i")
+ COUNT(t1.MESSAGE, "wank", " i")
+ COUNT(t1.MESSAGE, "wanker", " i")
+ COUNT(t1.MESSAGE, "wanky", " i")
+ COUNT(t1.MESSAGE, "whoar", " i")
+ COUNT(t1.MESSAGE, "whore", " i")
+ COUNT(t1.MESSAGE, "willies", " i")
+ COUNT(t1.MESSAGE, "willy", " i")
+ COUNT(t1.MESSAGE, "wtf", " i")
+ COUNT(t1.MESSAGE, "xrated", " i")
+ COUNT(t1.MESSAGE, "xxx", " i")
+ COUNT(t1.MESSAGE, "1174", " i")
+ COUNT(t1.MESSAGE, "53X", " i")
+ COUNT(t1.MESSAGE, "8", " i")
+ COUNT(t1.MESSAGE, "88", " i")
+ COUNT(t1.MESSAGE, "?^", " i")
+ COUNT(t1.MESSAGE, "banana", " i")
+ COUNT(t1.MESSAGE, "bj", " i")
+ COUNT(t1.MESSAGE, "bob", " i")
+ COUNT(t1.MESSAGE, "boaisy", " i")) LABEL="DESENSWORD" AS DESENSWORD,
/* APOLOGYWORD */
(COUNT(t1.MESSAGE, "apologise", "i")
+ COUNT(t1.MESSAGE, "apologize", "i")
+ COUNT(t1.MESSAGE, "apologies", "i")
+ COUNT(t1.MESSAGE, "sorry", "i")
+ COUNT(t1.MESSAGE, "sorrry", "i")

```

+ COUNT(t1.MESSAGE, "soorry", "i")
+ COUNT(t1.MESSAGE, "sorree", "i")
+ COUNT(t1.MESSAGE, "sorrii", "i")
+ COUNT(t1.MESSAGE, "me bad", "i")
+ COUNT(t1.MESSAGE, "my bad", "i")
+ COUNT(t1.MESSAGE, "mea bad", "i")
+ COUNT(t1.MESSAGE, "i bad", "i")
+ COUNT(t1.MESSAGE, "Unfortunately", "i")
+ COUNT(t1.MESSAGE, "I'm afraid that", "i")
+ COUNT(t1.MESSAGE, "bad news", "i")
+ COUNT(t1.MESSAGE, "puts you out", "i")
+ COUNT(t1.MESSAGE, "put you out", "i")
+ COUNT(t1.MESSAGE, "acknowledgment", "i")
+ COUNT(t1.MESSAGE, "admission", "i")
+ COUNT(t1.MESSAGE, "amend", "i")
+ COUNT(t1.MESSAGE, "atonement", "i")
+ COUNT(t1.MESSAGE, "concession", "i")
+ COUNT(t1.MESSAGE, "confession", "i")
+ COUNT(t1.MESSAGE, "excuse", "i")
+ COUNT(t1.MESSAGE, "explanation", "i")
+ COUNT(t1.MESSAGE, "justification", "i")
+ COUNT(t1.MESSAGE, "justified", "i")
+ COUNT(t1.MESSAGE, "plea", "i")
+ COUNT(t1.MESSAGE, "redress", "i")
+ COUNT(t1.MESSAGE, "reparation", "i")
+ COUNT(t1.MESSAGE, "defense", "i")
+ COUNT(t1.MESSAGE, "extenuation", "i")
+ COUNT(t1.MESSAGE, "extenuating", "i")
+ COUNT(t1.MESSAGE, "mitigation", "i")
+ COUNT(t1.MESSAGE, "mitigate", "i")
+ COUNT(t1.MESSAGE, "vindication", "i")
+ COUNT(t1.MESSAGE, "vidicate", "i")
+ COUNT(t1.MESSAGE, "mea culpa", "i")
+ COUNT(t1.MESSAGE, "denial", "i")
+ COUNT(t1.MESSAGE, "refusal", "i")
+ COUNT(t1.MESSAGE, "refuse", "i")
+ COUNT(t1.MESSAGE, "repudiation", "i")
+ COUNT(t1.MESSAGE, "repudiate", "i")
+ COUNT(t1.MESSAGE, "accusation", "i")
+ COUNT(t1.MESSAGE, "accuse", "i")
+ COUNT(t1.MESSAGE, "censure", "i")
+ COUNT(t1.MESSAGE, "charge", "i")
+ COUNT(t1.MESSAGE, "complaint", "i")

+ COUNT(t1.MESSAGE, "condemnation", "i")
+ COUNT(t1.MESSAGE, "criticism", "i")
+ COUNT(t1.MESSAGE, "defiance", "i")
+ COUNT(t1.MESSAGE, "indictment", "i")
+ COUNT(t1.MESSAGE, "apology", "i")
+ COUNT(t1.MESSAGE, "atonement", "i")
+ COUNT(t1.MESSAGE, "expiation", "i")
+ COUNT(t1.MESSAGE, "indemnification", "i")
+ COUNT(t1.MESSAGE, "indemnity", "i")
+ COUNT(t1.MESSAGE, "quittance", "i")
+ COUNT(t1.MESSAGE, "recompense", "i")
+ COUNT(t1.MESSAGE, "redress", "i")
+ COUNT(t1.MESSAGE, "reparation", "i")
+ COUNT(t1.MESSAGE, "reprisal", "i")
+ COUNT(t1.MESSAGE, "requital", "i")
+ COUNT(t1.MESSAGE, "restitution", "i")
+ COUNT(t1.MESSAGE, "restoration", "i")
+ COUNT(t1.MESSAGE, "satisfaction", "i")
+ COUNT(t1.MESSAGE, "satisfy", "i")
+ COUNT(t1.MESSAGE, "answer", "i")
+ COUNT(t1.MESSAGE, "apologetics", "i")
+ COUNT(t1.MESSAGE, "apologia", "i")
+ COUNT(t1.MESSAGE, "apologizing", "i")
+ COUNT(t1.MESSAGE, "apology", "i")
+ COUNT(t1.MESSAGE, "argument", "i")
+ COUNT(t1.MESSAGE, "cleanup", "i")
+ COUNT(t1.MESSAGE, "copout", "i")
+ COUNT(t1.MESSAGE, "exculpation", "i")
+ COUNT(t1.MESSAGE, "excuse", "i")
+ COUNT(t1.MESSAGE, "excusing", "i")
+ COUNT(t1.MESSAGE, "exoneration", "i")
+ COUNT(t1.MESSAGE, "explaining", "i")
+ COUNT(t1.MESSAGE, "extenuation", "i")
+ COUNT(t1.MESSAGE, "fish story", "i")
+ COUNT(t1.MESSAGE, "jive", "i")
+ COUNT(t1.MESSAGE, "off-time", "i")
+ COUNT(t1.MESSAGE, "plea", "i")
+ COUNT(t1.MESSAGE, "rationalization", "i")
+ COUNT(t1.MESSAGE, "rejoinder", "i")
+ COUNT(t1.MESSAGE, "reply", "i")
+ COUNT(t1.MESSAGE, "response", "i")
+ COUNT(t1.MESSAGE, "retort", "i")
+ COUNT(t1.MESSAGE, "return", "i")

+ COUNT(t1.MESSAGE, "song and dance", "i")
+ COUNT(t1.MESSAGE, "story", "i")
+ COUNT(t1.MESSAGE, "vindication", "i")
+ COUNT(t1.MESSAGE, "whitewash", "i")
+ COUNT(t1.MESSAGE, "alibi", "i")
+ COUNT(t1.MESSAGE, "apology", "i")
+ COUNT(t1.MESSAGE, "cleanup", "i")
+ COUNT(t1.MESSAGE, "cop-out", "i")
+ COUNT(t1.MESSAGE, "cover", "i")
+ COUNT(t1.MESSAGE, "cover story", "i")
+ COUNT(t1.MESSAGE, "coverup", "i")
+ COUNT(t1.MESSAGE, "defense", "i")
+ COUNT(t1.MESSAGE, "disguise", "i")
+ COUNT(t1.MESSAGE, "evasion", "i")
+ COUNT(t1.MESSAGE, "expedient", "i")
+ COUNT(t1.MESSAGE, "extenuation", "i")
+ COUNT(t1.MESSAGE, "fish story", "i")
+ COUNT(t1.MESSAGE, "grounds", "i")
+ COUNT(t1.MESSAGE, "jive", "i")
+ COUNT(t1.MESSAGE, "justification", "i")
+ COUNT(t1.MESSAGE, "makeshift", "i")
+ COUNT(t1.MESSAGE, "mitigation", "i")
+ COUNT(t1.MESSAGE, "plea", "i")
+ COUNT(t1.MESSAGE, "pretext", "i")
+ COUNT(t1.MESSAGE, "rationalization", "i")
+ COUNT(t1.MESSAGE, "regrets", "i")
+ COUNT(t1.MESSAGE, "routine", "i")
+ COUNT(t1.MESSAGE, "semblance", "i")
+ COUNT(t1.MESSAGE, "shift", "i")
+ COUNT(t1.MESSAGE, "song", "i")
+ COUNT(t1.MESSAGE, "song and dance", "i")
+ COUNT(t1.MESSAGE, "stall", "i")
+ COUNT(t1.MESSAGE, "stopgap", "i")
+ COUNT(t1.MESSAGE, "story", "i")
+ COUNT(t1.MESSAGE, "substitute", "i")
+ COUNT(t1.MESSAGE, "subterfuge", "i")
+ COUNT(t1.MESSAGE, "trick", "i")
+ COUNT(t1.MESSAGE, "vindication", "i")
+ COUNT(t1.MESSAGE, "whitewash", "i")
+ COUNT(t1.MESSAGE, "why and wherefore", "i")
+ COUNT(t1.MESSAGE, "wherefore and why", "i")
+ COUNT(t1.MESSAGE, "why", "i")
+ COUNT(t1.MESSAGE, "wherefore", "i")

+ COUNT(t1.MESSAGE, "absolution", "i")
+ COUNT(t1.MESSAGE, "account", "i")
+ COUNT(t1.MESSAGE, "acquittal", "i")
+ COUNT(t1.MESSAGE, "advocacy", "i")
+ COUNT(t1.MESSAGE, "answer", "i")
+ COUNT(t1.MESSAGE, "apologia", "i")
+ COUNT(t1.MESSAGE, "apology", "i")
+ COUNT(t1.MESSAGE, "approval", "i")
+ COUNT(t1.MESSAGE, "argument", "i")
+ COUNT(t1.MESSAGE, "basis", "i")
+ COUNT(t1.MESSAGE, "confirmation", "i")
+ COUNT(t1.MESSAGE, "defense", "i")
+ COUNT(t1.MESSAGE, "exculpation", "i")
+ COUNT(t1.MESSAGE, "exoneration", "i")
+ COUNT(t1.MESSAGE, "explanation", "i")
+ COUNT(t1.MESSAGE, "extenuation", "i")
+ COUNT(t1.MESSAGE, "grounds", "i")
+ COUNT(t1.MESSAGE, "idea", "i")
+ COUNT(t1.MESSAGE, "mitigation", "i")
+ COUNT(t1.MESSAGE, "palliation", "i")
+ COUNT(t1.MESSAGE, "palliative", "i")
+ COUNT(t1.MESSAGE, "plea", "i")
+ COUNT(t1.MESSAGE, "pretext", "i")
+ COUNT(t1.MESSAGE, "raison d'être", "i")
+ COUNT(t1.MESSAGE, "rationale", "i")
+ COUNT(t1.MESSAGE, "rationalization", "i")
+ COUNT(t1.MESSAGE, "rebuttal", "i")
+ COUNT(t1.MESSAGE, "redemption", "i")
+ COUNT(t1.MESSAGE, "reply", "i")
+ COUNT(t1.MESSAGE, "response", "i")
+ COUNT(t1.MESSAGE, "salvation", "i")
+ COUNT(t1.MESSAGE, "sanctification", "i")
+ COUNT(t1.MESSAGE, "song and dance", "i")
+ COUNT(t1.MESSAGE, "story", "i")
+ COUNT(t1.MESSAGE, "support", "i")
+ COUNT(t1.MESSAGE, "validation", "i")
+ COUNT(t1.MESSAGE, "vindication", "i")
+ COUNT(t1.MESSAGE, "warrant", "i")
+ COUNT(t1.MESSAGE, "whatfor", "i")
+ COUNT(t1.MESSAGE, "wherefore", "i")
+ COUNT(t1.MESSAGE, "whitewashing", "i")
+ COUNT(t1.MESSAGE, "whole idea", "i")
+ COUNT(t1.MESSAGE, "apology", "i")

```

+ COUNT(t1.MESSAGE, "burlesque", "i")
+ COUNT(t1.MESSAGE, "caricature", "i")
+ COUNT(t1.MESSAGE, "cartoon", "i")
+ COUNT(t1.MESSAGE, "copy", "i")
+ COUNT(t1.MESSAGE, "derision", "i")
+ COUNT(t1.MESSAGE, "farce", "i")
+ COUNT(t1.MESSAGE, "irony", "i")
+ COUNT(t1.MESSAGE, "jest", "i")
+ COUNT(t1.MESSAGE, "joke", "i")
+ COUNT(t1.MESSAGE, "lampoon", "i")
+ COUNT(t1.MESSAGE, "mime", "i")
+ COUNT(t1.MESSAGE, "mimicry", "i")
+ COUNT(t1.MESSAGE, "misrepresentation", "i")
+ COUNT(t1.MESSAGE, "misrepresent", "i")
+ COUNT(t1.MESSAGE, "mock-heroic", "i")
+ COUNT(t1.MESSAGE, "mockery", "i")
+ COUNT(t1.MESSAGE, "pastiche", "i")
+ COUNT(t1.MESSAGE, "play-on", "i")
+ COUNT(t1.MESSAGE, "raillery", "i")
+ COUNT(t1.MESSAGE, "rib", "i")
+ COUNT(t1.MESSAGE, "ridicule", "i")
+ COUNT(t1.MESSAGE, "roast", "i")
+ COUNT(t1.MESSAGE, "satire", "i")
+ COUNT(t1.MESSAGE, "send-up", "i")
+ COUNT(t1.MESSAGE, "skit", "i")
+ COUNT(t1.MESSAGE, "takeoff", "i")
+ COUNT(t1.MESSAGE, "travesty", "i")) LABEL="APOLOGYWORD" AS
APOLOGYWORD,
/* SOURCE */
(IFC(t1.SOURCE="", "YAMMER", t1.SOURCE, "YAMMER")) LABEL="SOURCE" AS
SOURCE,
/* Question_Words */
(COUNT(t1.MESSAGE, "school", "i")
+ COUNT(t1.MESSAGE, "schl", "i")
+ COUNT(t1.MESSAGE, "grade", "i")
+ COUNT(t1.MESSAGE, "attend", "i")
+ COUNT(t1.MESSAGE, "attd", "i")
+ COUNT(t1.MESSAGE, "attnd", "i")
+ COUNT(t1.MESSAGE, "phone", "i")
+ COUNT(t1.MESSAGE, "telephone", "i")
+ COUNT(t1.MESSAGE, "home number", "i")
+ COUNT(t1.MESSAGE, "number", "i")
+ COUNT(t1.MESSAGE, "address", "i"))

```

```

+ COUNT(t1.MESSAGE, "add", "i")
+ COUNT(t1.MESSAGE, "addy", "i")
+ COUNT(t1.MESSAGE, "adr", "i")
+ COUNT(t1.MESSAGE, "phn", "i")
+ COUNT(t1.MESSAGE, "addr", "i")
+ COUNT(t1.MESSAGE, "live", "i")
+ COUNT(t1.MESSAGE, "how old", "i")
+ COUNT(t1.MESSAGE, "name", "i")
+ COUNT(t1.MESSAGE, "first name", "i")
+ COUNT(t1.MESSAGE, "first", "i")
+ COUNT(t1.MESSAGE, "middle name", "i")
+ COUNT(t1.MESSAGE, "middle", "i")
+ COUNT(t1.MESSAGE, "last name", "i")
+ COUNT(t1.MESSAGE, "last", "i")
+ COUNT(t1.MESSAGE, "born", "i")
+ COUNT(t1.MESSAGE, "birth", "i")
+ COUNT(t1.MESSAGE, "date of birth", "i")
+ COUNT(t1.MESSAGE, "mom", "i")
+ COUNT(t1.MESSAGE, "mother", "i")
+ COUNT(t1.MESSAGE, "login", "i")
+ COUNT(t1.MESSAGE, "password", "i")
+ COUNT(t1.MESSAGE, "pswrd", "i")
+ COUNT(t1.MESSAGE, "account", "i")
+ COUNT(t1.MESSAGE, "bank", "i")
+ COUNT(t1.MESSAGE, "work", "i")
+ COUNT(t1.MESSAGE, "member", "i")
+ COUNT(t1.MESSAGE, "?", "i")
+ COUNT(t1.MESSAGE, "d", "i")
+ COUNT(t1.MESSAGE, "D", "i")
+ COUNT(t1.MESSAGE, "email", "i")
+ COUNT(t1.MESSAGE, "born", "i")
+ COUNT(t1.MESSAGE, "where born", "i")
+ COUNT(t1.MESSAGE, "birthplace", "i")
+ COUNT(t1.MESSAGE, "411", "i")
+ COUNT(t1.MESSAGE, "9", "i")
+ COUNT(t1.MESSAGE, "99", "i")) LABEL="Question_Words" AS Question_Words
FROM WORK.YAMMERANDMASTER t1;
QUIT;

GOPTIONS NOACCESSIBLE;

%LET _CLIENTTASKLABEL=;

```

```
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: Summary Tables */
%LET _CLIENTTASKLABEL='Summary Tables';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
TITLE;
TITLE1 "Summary Tables of Word Counts";
FOOTNOTE;
FOOTNOTE1 "Generated by SAS on %TRIM(%QSYSFUNC(DATE()), NLDATE20.)) at
%TRIM(%SYSFUNC(TIME()), TIMEAMPM12.))";
/* -----
Code generated by SAS Task
```

```
Generated on: Tuesday, July 14, 2015 at 1:42:45 PM
By task: Summary Tables
```

```
Input Data: SASApp:WORK.QUERY_FOR_CHATLOG_0001
Server: SASApp
----- */
```

```
%_eg_conditional_dropds(WORK.Stats_Word_Counts);
```

```
/* -----
Run the tabulate procedure
----- */
```

```
PROC TABULATE
DATA=WORK.QUERY_FOR_CHATLOG_0001
```

```
OUT=WORK.Stats_Word_Counts(LABEL="Summary Tables for
WORK.QUERY_FOR_CHATLOG_0001")
```

```
;
```

```
VAR LETTERCOUNT WORDCOUNT MESSAGECOUNT ALLCAPS HASHTAG
RelationWord FamilyWords PersPronoun REFpronouns XOCOUNT ModalVerbs Stretch_Index
NEGATION STOPWORDS Question_Words;
CLASS SOURCE1 / ORDER=UNFORMATTED MISSING;
```

```

        CLASS NAME /      ORDER=UNFORMATTED MISSING;
        TABLE /* Row Dimension */
SOURCE1*
    NAME,
/* Column Dimension */
LETTERCOUNT*
    Sum
WORDCOUNT*
    Sum
MESSAGECOUNT*
    Sum
ALLCAPS*
    Sum
HASHTAG*
    Sum
RelationWord*
    Sum
FamilyWords*
    Sum
PersPronoun*
    Sum
REFPronouns*
    Sum
ModalVerbs*
    Sum
XOCount*
    Sum
Stretch_Index*
    Sum
NEGATION*
    Sum
STOPWORDS*
    Sum
Question_Words*
    Sum      ;
        ;

RUN;
/* -----
    End of task code.
    ----- */
RUN; QUIT;
TITLE; FOOTNOTE;

```

```
GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: LINK TARGETS */
%LET _CLIENTTASKLABEL='LINK TARGETS';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egg';
%LET _CLIENTPROJECTNAME='SP_Finder.egg';
```

```
GOPTIONS ACCESSIBLE;
%_eg_conditional_dropds(WORK.QUERY_FOR_STATS_WORD_COUNTS);
```

```
PROC SQL;
  CREATE TABLE WORK.QUERY_FOR_STATS_WORD_COUNTS AS
  SELECT t1.NAME,
         t1.SOURCE1,
         t1.LETTERCOUNT_Sum,
         t1.WORDCOUNT_Sum,
         t1.MESSAGECOUNT_Sum,
         /* N_ALL_CAPS */
         (t1.ALLCAPS_Sum / t1.MESSAGECOUNT_Sum) LABEL="N_ALL_CAPS" AS
N_ALL_CAPS,
         /* N_HASHTAG */
         (t1.HASHTAG_Sum / t1.WORDCOUNT_Sum) LABEL="N_HASHTAG" AS
N_HASHTAG,
         /* N_RELATION */
         (t1.RelationWord_Sum / t1.WORDCOUNT_Sum) LABEL="N_RELATION" AS
N_RELATION,
         /* N_FAMILY */
         (t1.FamilyWords_Sum / t1.WORDCOUNT_Sum) LABEL="N_FAMILY" AS N_FAMILY,
         /* N_PERPRONOUN */
         (t1.PersPronoun_Sum / t1.WORDCOUNT_Sum) LABEL="N_PERPRONOUN" AS
N_PERPRONOUN,
         /* N_REFPRONOUN */
         (t1.REFPronouns_Sum / t1.WORDCOUNT_Sum) LABEL="N_REFPRONOUN" AS
N_REFPRONOUN,
         /* N_MODALVERBS */
```

```

        (t1.ModalVerbs_Sum / t1.WORDCOUNT_Sum) LABEL="N_MODALVERBS" AS
N_MODALVERBS,
        /* N_XOWORD */
        (t1.XOCount_Sum / t1.WORDCOUNT_Sum) LABEL="N_XOWORD" AS N_XOWORD,
        /* N_XOLETTER */
        (t1.XOCount_Sum / t1.LETTERCOUNT_Sum) LABEL="N_XOLETTER" AS
N_XOLETTER,
        /* N_STRETCHWORD */
        (t1.Stretch_Index_Sum / t1.WORDCOUNT_Sum) LABEL="N_STRETCHWORD" AS
N_STRETCHWORD,
        /* N_NEGATION */
        (t1.NEGATION_Sum / t1.WORDCOUNT_Sum) LABEL="N_NEGATION" AS
N_NEGATION,
        /* N_STOP */
        (t1.STOPWORDS_Sum / t1.WORDCOUNT_Sum) LABEL="N_STOP" AS N_STOP,
t2.Target,
        /* N_Question_Words */
        (t1.Question_Words_Sum / t1.WORDCOUNT_Sum) LABEL="N_Question_Words" AS
N_Question_Words
        FROM WORK.'SP_TARGET LIST'n t2
        FULL JOIN WORK.STATS_WORD_COUNTS t1 ON (t2.NAME = t1.NAME);
QUIT;

```

```
GOPTIONS NOACCESSIBLE;
```

```

%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

```

```

/* START OF NODE: Cluster Analysis */
%LET _CLIENTTASKLABEL='Cluster Analysis';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

```

```
GOPTIONS ACCESSIBLE;
```

```

/* -----
Code generated by SAS Task

```

Generated on: Tuesday, July 14, 2015 at 1:42:54 PM

By task: Cluster Analysis

Input Data: SASApp:WORK.QUERY_FOR_STATS_WORD_COUNTS

Server: SASApp

```
----- */
ODS GRAPHICS ON;

%_eg_conditional_dropds(WORK.SORTTempTableSorted,
                        WORK.CLUSClusterDataQUERY_FOR_STATS_W);
/* -----
Determine the data set's type attribute (if one is defined)
and prepare it for addition to the data set/view which is
generated in the following step.
----- */
DATA _NULL_;
    dsid = OPEN("WORK.QUERY_FOR_STATS_WORD_COUNTS", "I");
    dstype = ATTRC(DSID, "TYPE");
    IF TRIM(dstype) = " " THEN
        DO;
            CALL SYMPUT("_EG_DSTYPE_", "");
            CALL SYMPUT("_DSTYPE_VARS_", "");
        END;
    ELSE
        DO;
            CALL SYMPUT("_EG_DSTYPE_", "(TYPE=""" || TRIM(dstype) || """)");
            IF VARNUM(dsid, "_NAME_") NE 0 AND VARNUM(dsid, "_TYPE_") NE 0 THEN
                CALL SYMPUT("_DSTYPE_VARS_", "_TYPE_ _NAME_");
            ELSE IF VARNUM(dsid, "_TYPE_") NE 0 THEN
                CALL SYMPUT("_DSTYPE_VARS_", "_TYPE_");
            ELSE IF VARNUM(dsid, "_NAME_") NE 0 THEN
                CALL SYMPUT("_DSTYPE_VARS_", "_NAME_");
            ELSE
                CALL SYMPUT("_DSTYPE_VARS_", "");
        END;
    rc = CLOSE(dsid);
    STOP;
RUN;

/* -----
Data set WORK.QUERY_FOR_STATS_WORD_COUNTS does not need to be sorted.
----- */
DATA WORK.SORTTempTableSorted &_EG_DSTYPE_ /
VIEW=WORK.SORTTempTableSorted;
```

```

        SET WORK.QUERY_FOR_STATS_WORD_COUNTS(KEEP=LETTERCOUNT_Sum
WORDCOUNT_Sum MESSAGECOUNT_Sum N_ALL_CAPS N_HASHTAG N_RELATION
N_FAMILY N_PERPRONOUN N_REFPRONOUN N_MODALVERBS N_XOWORD
N_XOLETTER N_STRETCHWORD N_NEGATION N_STOP NAME &_DSTYPE_VARS_);
RUN;
TITLE;
TITLE1 "Cluster Analysis Results";
FOOTNOTE;
FOOTNOTE1 "Generated by the SAS System (&_SASSERVERNAME, &SYSSCPL) on
%TRIM(%QSYSFUNC DATE(), NLDATE20.)) at %TRIM(%SYSFUNC(TIME()),
TIMEAMPM12.))";

```

```

PROC CLUSTER DATA=WORK.SORTTempTableSorted
    METHOD=CENTROID
    CCC
    PSEUDO
    OUTTREE=WORK.CLUSClusterDataQUERY_FOR_STATS_W(LABEL="Cluster tree
data for WORK.QUERY_FOR_STATS_WORD_COUNTS")
    PRINT=30
    PLOTS=PSF
    PLOTS=PST2
    PLOTS=CCC
    ;
    VAR LETTERCOUNT_Sum WORDCOUNT_Sum MESSAGECOUNT_Sum
N_ALL_CAPS N_HASHTAG N_RELATION N_FAMILY N_PERPRONOUN N_REFPRONOUN
N_MODALVERBS N_XOWORD N_XOLETTER N_STRETCHWORD N_NEGATION N_STOP;
    ID NAME;
RUN;
TITLE;
TITLE1 "Cluster Analysis Tree Chart";
GOPTIONS HTEXT=0.9 DEVICE=PNG;

```

```

PROC TREE DATA=WORK.CLUSClusterDataQUERY_FOR_STATS_W
    ;
    ID NAME;

```

```

RUN;
GOPTIONS HTEXT=;
/* -----
End of task code.
----- */
RUN; QUIT;
%_eg_conditional_dropds(WORK.SORTTempTableSorted);
TITLE; FOOTNOTE;

```

```
ODS GRAPHICS OFF;
```

```
GOPTIONS NOACCESSIBLE;  
%LET _CLIENTTASKLABEL=;  
%LET _CLIENTPROJECTPATH=;  
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: Prediction Model */  
%LET _CLIENTTASKLABEL='Prediction Model';  
%LET  
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egg';  
%LET _CLIENTPROJECTNAME='SP_Finder.egg';
```

```
GOPTIONS ACCESSIBLE;  
%_eg_conditional_dropds(WORK.QUERY_FOR_STATS_WORD_COUNTS_0000);
```

```
PROC SQL;  
  CREATE TABLE WORK.QUERY_FOR_STATS_WORD_COUNTS_0000 AS  
  SELECT t1.NAME,  
         t1.SOURCE1,  
         t1.Target,  
         /* PREDICTION */  
         (IFN(ROUND((-0.557) + (29.865 * t1.N_MODALVERBS) + (2.336 *  
t1.N_PERPRONOUN) + (-23.643 * t1.N_FAMILY) + (  
         t1.N_PERPRONOUN - 0.204) * (( t1.N_REFPRONOUN - 0.001) * 869.195) + (  
t1.N_PERPRONOUN - 0.204) * ((  
         t1.N_STRETCHWORD - 0.0079) * 179.58),1)<0.5,0,1)  
         ) LABEL="PREDICTION" AS PREDICTION,  
         /* PREDICTION2 */  
  
         (IFN(ROUND(-0.458+24.54*t1.N_MODALVERBS+3.03*t1.N_PERPRONOUN+(-37.6*t1.N_FAM  
ILY)+(t1.N_FAMILY-0.008)*((t1.N_FAMILY-0.008)*1000.82),1)<0.5,0,1)  
         ) LABEL="PREDICTION2" AS PREDICTION2  
  FROM WORK.QUERY_FOR_STATS_WORD_COUNTS t1;  
QUIT;
```

```
GOPTIONS NOACCESSIBLE;
```

```
%LET _CLIENTTASKLABEL=;  
%LET _CLIENTPROJECTPATH=;
```

```
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: Filter to P=Yes, T=Yes */
```

```
%LET _CLIENTTASKLABEL='Filter to P=Yes, T=Yes';
```

```
%LET
```

```
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
```

```
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
```

```
%_eg_conditional_dropds(WORK.FILTER_FOR_QUERY_FOR_STATS_WORD_);
```

```
PROC SQL;
```

```
CREATE TABLE WORK.FILTER_FOR_QUERY_FOR_STATS_WORD_ AS
```

```
SELECT t1.NAME,
```

```
      t1.SOURCE1,
```

```
      t1.Target,
```

```
      t1.PREDICTION,
```

```
      t1.PREDICTION2
```

```
FROM WORK.QUERY_FOR_STATS_WORD_COUNTS_0000 t1
```

```
WHERE t1.PREDICTION = 1 OR t1.PREDICTION2 = 1 OR t1.Target = 1;
```

```
QUIT;
```

```
GOPTIONS NOACCESSIBLE;
```

```
%LET _CLIENTTASKLABEL=;
```

```
%LET _CLIENTPROJECTPATH=;
```

```
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: Summary Tables1 */
```

```
%LET _CLIENTTASKLABEL='Summary Tables1';
```

```
%LET
```

```
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
```

```
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
```

```
TITLE;
```

```
TITLE1 "Summary Tables";
```

```
FOOTNOTE;
```

```
FOOTNOTE1 "Generated by the SAS System (&_SASSERVERNAME, &SYSSCPL) on
```

```
%TRIM(%QSYFUNC(DATE(), NLDATE20.)) at %TRIM(%SYSFUNC(TIME(),
```

```
TIMEAMPM12.))";
```

```
/* -----
```

Code generated by SAS Task

Generated on: Tuesday, July 14, 2015 at 1:42:57 PM

By task: Summary Tables1

Input Data: SASApp:WORK.FILTER_FOR_QUERY_FOR_STATS_WORD_

Server: SASApp

----- */

/* -----

Run the tabulate procedure

----- */

PROC TABULATE

DATA=WORK.FILTER_FOR_QUERY_FOR_STATS_WORD_

;

VAR PREDICTION PREDICTION2;

CLASS NAME / ORDER=UNFORMATTED MISSING;

CLASS SOURCE1 / ORDER=UNFORMATTED MISSING;

CLASS Target / ORDER=UNFORMATTED MISSING;

TABLE /* Row Dimension */

SOURCE1*

NAME*

N,

/* Column Dimension */

PREDICTION

PREDICTION2 ;

;

RUN;

/* -----

End of task code.

----- */

RUN; QUIT;

TITLE; FOOTNOTE;

GOPTIONS NOACCESSIBLE;

%LET _CLIENTTASKLABEL=;

%LET _CLIENTPROJECTPATH=;

%LET _CLIENTPROJECTNAME=;

```
/* START OF NODE: EXAM FILTER */
%LET _CLIENTTASKLABEL='EXAM FILTER';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
%_eg_conditional_dropds(WORK.FILTER_FOR_QUERY_FOR_CHATLOG);
```

```
PROC SQL;
  CREATE TABLE WORK.FILTER_FOR_QUERY_FOR_CHATLOG AS
  SELECT t1.F1,
         t1.NAME,
         t1.DATE,
         t1.TIME,
         t1.MESSAGE,
         t1.WORDCOUNT,
         t1.RelationWord,
         t1.FamilyWords,
         t1.PersPronoun,
         t1.REFPronouns,
         t1.XOCount,
         t1.ModalVerbs,
         t1.Stretch_Index,
         t1.ALLCAPS,
         t1.HASHTAG,
         t1.LETTERCOUNT,
         t1.MESSAGECOUNT,
         t1.NEGATION,
         t1.STOPWORDS,
         t1.EMO_Obscurity,
         t1.NULLSPACE,
         t1.NULLPERIOD,
         t1.NULL_SINGLE,
         t1.DESENSWORD,
         t1.APOLOGYWORD,
         t1.Question_Words
  FROM WORK.QUERY_FOR_CHATLOG_0001 t1
  WHERE t1.APOLOGYWORD >= 1;
QUIT;
```

```

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

/* START OF NODE: Program */
%LET SYSLAST=WORK.QUERY_FOR_CHATLOG_0001;
%LET _CLIENTTASKLABEL='Program';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
%LET _SASPROGRAMFILE=;

GOPTIONS ACCESSIBLE;
%emoticon(comment=t1.Message,
set= WORK.QUERY_FOR_CHATLOG_0001);
run;
end;

data WORK.QUERY_FOR_CHATLOG_0001;
  ExpressionID = prxparse('/[crb]at/');
  ARRAY text(*) = t1.Message(*);
  start = 1;
  stop = length(text);

  /* Use PRXNEXT to find the first instance of the pattern, */
  /* then use DO WHILE to find all further instances.      */
  /* PRXNEXT changes the start parameter so that searching */
  /* begins again after the last match.                    */
  call prxnext(ExpressionID, start, stop, text, position, length);
  do while (position > 0);
    found = substr(text, position, length);
    put found= position= length=;
    call prxnext(ExpressionID, start, stop, text, position, length);
  end;
run;

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;
%LET _SASPROGRAMFILE=;

```

```

/* START OF NODE: Dic of Affect Scoring */
%LET _CLIENTTASKLABEL='Dic of Affect Scoring ';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

GOPTIONS ACCESSIBLE;
%_eg_conditional_dropds(WORK.QUERY_FOR_CHATLOG_0002);

PROC SQL;
  CREATE TABLE WORK.QUERY_FOR_CHATLOG_0002 AS
  SELECT t1.F1,
         t1.NAME,
         t1.DATE,
         t1.TIME,
         t1.MESSAGE,
         t1.WORDCOUNT,
         t1.RelationWord,
         t1.FamilyWords,
         t1.PersPronoun,
         t1.REFPronouns,
         t1.XOCount,
         t1.ModalVerbs,
         t1.Stretch_Index,
         t2.Pleasantness,
         t2.Activation,
         t2.Imagery,
         /* AFFECT */
         (IFN( t1.MESSAGE CONTAINS t2.Word, 1,0)) LABEL="AFFECT" AS AFFECT
  FROM WORK.QUERY_FOR_CHATLOG_0001 t1
       FULL JOIN WORK.DICTIONARYOFAFFECTCLEAN t2 ON (t1.MESSAGE = t2.Word)
  WHERE t1.NAME NOT = "";
QUIT;

GOPTIONS NOACCESSIBLE;

%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

```

```
/* START OF NODE: Affect Score Summary */
%LET _CLIENTTASKLABEL='Affect Score Summary';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;
TITLE;
TITLE1 "Summary Tables";
FOOTNOTE;
FOOTNOTE1 "Generated by the SAS System (&_SASSERVERNAME, &SYSSCPL) on
%TRIM(%QSYSFUNC(DATE()), NLDATE20.) at %TRIM(%SYSFUNC(TIME()),
TIMEAMPM12.)";
```

```
/* -----
```

Code generated by SAS Task

Generated on: Tuesday, July 14, 2015 at 1:43:02 PM

By task: Affect Score Summary

Input Data: SASApp:WORK.QUERY_FOR_CHATLOG_0002

Server: SASApp

```
----- */
```

```
%_eg_conditional_dropds(WORK.Affect_Score_DataSet);
```

```
/* -----
```

Run the tabulate procedure

```
----- */
```

```
PROC TABULATE
```

```
DATA=WORK.QUERY_FOR_CHATLOG_0002
```

```
OUT=WORK.Affect_Score_DataSet(LABEL="Summary Tables for
WORK.QUERY_FOR_CHATLOG_0002")
```

```
;
```

```
VAR WORDCOUNT RelationWord FamilyWords PersPronoun REFpronouns XOCOUNT
ModalVerbs Stretch_Index Pleasantness Activation Imagery AFFECT;
```

```
CLASS NAME / ORDER=UNFORMATTED MISSING;
```

```
TABLE /* Row Dimension */
```

```
NAME,
```

```

/* Column Dimension */
WORDCOUNT*
    Sum
RelationWord*
    Sum
FamilyWords*
    Sum
REFPronouns*
    Sum
PersPronoun*
    Sum
XOCount*
    Sum
ModalVerbs*
    Sum
Stretch_Index*
    Sum
Pleasantness*
    Sum
Activation*
    Sum
Imagery*
    Sum
AFFECT*
    Sum      ;
            ;

RUN;
/* -----
   End of task code.
   ----- */
RUN; QUIT;
TITLE; FOOTNOTE;

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

/* START OF NODE: Ekman Emoticon Scores */
%LET _CLIENTTASKLABEL='Ekman Emoticon Scores';

```

```
%LET  
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egg';  
%LET _CLIENTPROJECTNAME='SP_Finder.egg';
```

```
GOPTIONS ACCESSIBLE;  
%_eg_conditional_dropds(WORK.QUERY_FOR_CHATLOG_0003);
```

```
PROC SQL;  
  CREATE TABLE WORK.QUERY_FOR_CHATLOG_0003 AS  
  SELECT t1.F1,  
         t1.NAME,  
         t1.DATETIME,  
         t1.DATE,  
         t1.TIME,  
         t1.MESSAGE,  
         t2.Text_Icon,  
         t1.LETTERCOUNT,  
         t1.WORDCOUNT,  
         t1.MESSAGECOUNT,  
         t1.ALLCAPS,  
         t1.HASHTAG,  
         t1.RelationWord,  
         t1.FamilyWords,  
         t1.PersPronoun,  
         t1.REFPronouns,  
         t1.XOCount,  
         t1.ModalVerbs,  
         t1.Stretch_Index,  
         t1.NEGATION,  
         t1.STOPWORDS,  
         t1.EMO_Obscurity,  
         t1.NULLSPACE,  
         t1.NULLPERIOD,  
         t1.NULL_SINGLE,  
         t1.DESENSWORD,  
         t1.APOLOGYWORD,  
         t2.Ekman_Basic_Emotion,  
         t2.Polarity,  
         t2.Plutchik_joy_sad,  
         t2.Plutchik_anger_fear,  
         t2.Plutchik_trust_dis,  
         t2.Plutchik_sup_ant,  
         t2.Subjectivity,
```

```

        t2.Subjectivity_No,
        t2.Time_Affect,
        t2.Time_Affect_No,
        t2.Functional_State,
        t2.Functional_No,
        t2.Chiral
    FROM WORK.EMO_EKMAN t2
        LEFT JOIN WORK.QUERY_FOR_CHATLOG_0001 t1 ON (t2.Text_Icon > t1.MESSAGE
AND (t1.MESSAGE CONTAINS
        t2.Text_Icon))
    WHERE t1.NAME NOT = "";
QUIT;

```

```
GOPTIONS NOACCESSIBLE;
```

```

%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

```

```

/* START OF NODE: Filter to Acitve List */
%LET _CLIENTTASKLABEL='Filter to Acitve List';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

```

```

GOPTIONS ACCESSIBLE;
%_eg_conditional_dropds(WORK.FILTER_FOR_QUERY_FOR_CHATLO_0000);

```

```

PROC SQL;
    CREATE TABLE WORK.FILTER_FOR_QUERY_FOR_CHATLO_0000 AS
    SELECT t1.F1,
        t1.NAME,
        t1.DATETIME,
        t1.DATE,
        t1.TIME,
        t1.MESSAGE,
        t1.Text_Icon,
        t1.LETTERCOUNT,
        t1.WORDCOUNT,
        t1.MESSAGECOUNT,

```

```

t1.ALLCAPS,
t1.HASHTAG,
t1.RelationWord,
t1.FamilyWords,
t1.PersPronoun,
t1.REFPronouns,
t1.XOCount,
t1.ModalVerbs,
t1.Stretch_Index,
t1.NEGATION,
t1.STOPWORDS,
t1.EMO_Obscurity,
t1.NULLSPACE,
t1.NULLPERIOD,
t1.NULL_SINGLE,
t1.DESENSWORD,
t1.APOLOGYWORD,
t1.Ekman_Basic_Emotion,
t1.Polarity,
t1.Plutchik_joy_sad,
t1.Plutchik_anger_fear,
t1.Plutchik_trust_dis,
t1.Plutchik_sup_ant,
t1.Subjectivity,
t1.Subjectivity_No,
t1.Time_Affect,
t1.Time_Affect_No,
t1.Functional_State,
t1.Functional_No,
t1.Chiral
FROM WORK.QUERY_FOR_CHATLOG_0003 t1
WHERE t1.MESSAGE NOT IS MISSING;
QUIT;

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

/* START OF NODE: Summary Statistics */
%LET _CLIENTTASKLABEL='Summary Statistics';

```

```
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egg';
%LET _CLIENTPROJECTNAME='SP_Finder.egg';
```

```
GOPTIONS ACCESSIBLE;
```

```
/* -----
Code generated by SAS Task
```

```
Generated on: Tuesday, July 14, 2015 at 1:43:05 PM
By task: Summary Statistics
```

```
Input Data: SASApp:WORK.FILTER_FOR_QUERY_FOR_CHATLO_0000
Server: SASApp
```

```
----- */
```

```
%_eg_conditional_dropds(WORK.SORTTempTableSorted);
```

```
/* -----
Sort data set SASApp:WORK.FILTER_FOR_QUERY_FOR_CHATLO_0000
----- */
```

```
PROC SQL;
```

```
CREATE VIEW WORK.SORTTempTableSorted AS
SELECT T.Polarity, T.Plutchik_joy_sad, T.Plutchik_anger_fear,
T.Plutchik_trust_dis, T.Plutchik_sup_ant, T.Subjectivity_No, T.Time_Affect_No, T.Functional_No,
T.Chiral, T.NAME, T.Ekman_Basic_Emotion
FROM WORK.FILTER_FOR_QUERY_FOR_CHATLO_0000 as T
```

```
;
```

```
QUIT;
```

```
/* -----
Run the Means Procedure
----- */
```

```
TITLE;
```

```
TITLE1 "Summary Statistics";
```

```
TITLE2 "Results";
```

```
FOOTNOTE;
```

```
FOOTNOTE1 "Generated by the SAS System (&_SASSERVERNAME, &SYSSCPL) on
%TRIM(%QSYFUNC(DATE(), NLDATE20.)) at %TRIM(%SYFUNC(TIME(),
TIMEAMPM12.))";
```

```
PROC MEANS DATA=WORK.SORTTempTableSorted
```

```
FW=12
```

```
PRINTALLTYPES
```

```
CHARTYPE
```

```
NWAY
```

```

        MEAN
        SUM
        N      ;
        VAR Polarity Plutchik_joy_sad Plutchik_anger_fear Plutchik_trust_dis Plutchik_sup_ant
Subjectivity_No Time_Affect_No Functional_No Chiral;
        CLASS NAME /      ORDER=UNFORMATTED ASCENDING;
        CLASS Ekman_Basic_Emotion /      ORDER=UNFORMATTED ASCENDING;

RUN;
/* -----
   End of task code.
   ----- */
RUN; QUIT;
%_eg_conditional_dropds(WORK.SORTTempTableSorted);
TITLE; FOOTNOTE;

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

/* START OF NODE: Summary Tables2 */
%LET _CLIENTTASKLABEL='Summary Tables2';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egg';
%LET _CLIENTPROJECTNAME='SP_Finder.egg';

GOPTIONS ACCESSIBLE;
TITLE;
TITLE1 "Summary Tables";
FOOTNOTE;
FOOTNOTE1 "Generated by the SAS System (&_SASSERVERNAME, &SYSSCPL) on
%TRIM(%QSYSFUNC(DATE()), NLDATE20.)) at %TRIM(%SYSFUNC(TIME()),
TIMEAMPM12.))";
/* -----
   Code generated by SAS Task

Generated on: Tuesday, July 14, 2015 at 1:43:07 PM
By task: Summary Tables2

```

Input Data: SASApp\WORK.FILTER_FOR_QUERY_FOR_CHATLO_0000

Server: SASApp

----- */

/* -----

Run the tabulate procedure

----- */

PROC TABULATE

DATA=WORK.FILTER_FOR_QUERY_FOR_CHATLO_0000

;

VAR Polarity;

CLASS NAME / ORDER=UNFORMATTED MISSING;

CLASS Ekman_Basic_Emotion / ORDER=UNFORMATTED MISSING;

TABLE /* Row Dimension */

NAME*

SumWgt

N,

/* Column Dimension */

Ekman_Basic_Emotion*

Polarity ;

;

RUN;

/* -----

End of task code.

----- */

RUN; QUIT;

TITLE; FOOTNOTE;

GOPTIONS NOACCESSIBLE;

%LET _CLIENTTASKLABEL=;

%LET _CLIENTPROJECTPATH=;

%LET _CLIENTPROJECTNAME=;

/* START OF NODE: Summary Tables3 */

%LET _CLIENTTASKLABEL='Summary Tables3';

%LET

_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egg';

```

%LET _CLIENTPROJECTNAME='SP_Finder.egp';

GOPTIONS ACCESSIBLE;
TITLE;
TITLE1 "Summary Tables";
FOOTNOTE;
FOOTNOTE1 "Generated by the SAS System (&_SASSERVERNAME, &SYSSCPL) on
%TRIM(%QSYSFUNC(DATE()), NLDATE20.)) at %TRIM(%SYSFUNC(TIME()),
TIMEAMPM12.))";
/* -----
Code generated by SAS Task

Generated on: Tuesday, July 14, 2015 at 1:43:09 PM
By task: Summary Tables3

Input Data: SASApp:WORK.QUERY_FOR_CHATLOG_0003
Server: SASApp
----- */

/* -----
Run the tabulate procedure
----- */
PROC TABULATE
DATA=WORK.QUERY_FOR_CHATLOG_0003

;

VAR Polarity;
CLASS NAME / ORDER=UNFORMATTED MISSING;
CLASS Ekman_Basic_Emotion / ORDER=UNFORMATTED MISSING;
TABLE /* Row Dimension */
NAME*
Polarity*
Sum
N,
/* Column Dimension */
Ekman_Basic_Emotion ;
;

RUN;
/* -----
End of task code.

```

```
----- */  
RUN; QUIT;  
TITLE; FOOTNOTE;
```

```
GOPTIONS NOACCESSIBLE;  
%LET _CLIENTTASKLABEL=;  
%LET _CLIENTPROJECTPATH=;  
%LET _CLIENTPROJECTNAME=;
```

```
/* START OF NODE: Emoticon Obscurity Scores */  
%LET _CLIENTTASKLABEL='Emoticon Obscurity Scores';  
%LET  
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';  
%LET _CLIENTPROJECTNAME='SP_Finder.egp';
```

```
GOPTIONS ACCESSIBLE;  
%_eg_conditional_dropds(WORK.QUERY_FOR_CHATLOG_0004);
```

```
PROC SQL;  
CREATE TABLE WORK.QUERY_FOR_CHATLOG_0004 AS  
SELECT t1.F1,  
       t1.NAME,  
       t1.DATETIME,  
       t1.DATE,  
       t1.TIME,  
       t1.MESSAGE,  
       t1.LETTERCOUNT,  
       t1.WORDCOUNT,  
       t1.MESSAGECOUNT,  
       t1.ALLCAPS,  
       t1.HASHTAG,  
       t1.RelationWord,  
       t1.FamilyWords,  
       t1.PersPronoun,  
       t1.REFPronouns,  
       t1.XOCount,  
       t1.ModalVerbs,  
       t1.Stretch_Index,  
       t1.NEGATION,  
       t1.STOPWORDS,  
       t1.EMO_Obscurity,
```

```

t1.NULLSPACE,
t1.NULLPERIOD,
t1.NULL_SINGLE,
t1.DESENSWORD,
t1.APOLOGYWORD,
t2.EMO_Strength,
t2.EMO_Obscurity AS EMO_Obscurity1
FROM WORK.EMO OBS t2
LEFT JOIN WORK.QUERY_FOR_CHATLOG_0001 t1 ON (t2.Emoticon > t1.MESSAGE
AND (t1.MESSAGE CONTAINS t2.Emoticon))
WHERE t1.MESSAGE NOT IS MISSING;
QUIT;

```

```
GOPTIONS NOACCESSIBLE;
```

```

%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

```

```

/* START OF NODE: Summary Statistics1 */
%LET _CLIENTTASKLABEL='Summary Statistics1';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

```

```
GOPTIONS ACCESSIBLE;
```

```
/* -----
```

```
Code generated by SAS Task
```

```
Generated on: Tuesday, July 14, 2015 at 1:43:13 PM
```

```
By task: Summary Statistics1
```

```
Input Data: SASApp:WORK.QUERY_FOR_CHATLOG_0004
```

```
Server: SASApp
```

```
----- */
```

```
%_eg_conditional_dropds(WORK.SORTTempTableSorted);
```

```
/* -----
```

```
Sort data set SASApp:WORK.QUERY_FOR_CHATLOG_0004
```

```
----- */
```

```

PROC SQL;
    CREATE VIEW WORK.SORTTempTableSorted AS
        SELECT T.EMO_Strength, T.EMO_Obscurity1, T.NAME
        FROM WORK.QUERY_FOR_CHATLOG_0004 as T
;
QUIT;
/* -----
   Run the Means Procedure
   ----- */
TITLE;
TITLE1 "Summary Statistics";
TITLE2 "Results";
FOOTNOTE;
FOOTNOTE1 "Generated by the SAS System (&_SASSERVERNAME, &SYSSCPL) on
%TRIM(%QSYSFUNC(DATE()), NLDATE20.)) at %TRIM(%SYSFUNC(TIME()),
TIMEAMPM12.))";
PROC MEANS DATA=WORK.SORTTempTableSorted
    FW=12
    PRINTALLTYPES
    CHARTYPE
    NWAY
    VARDEF=DF
        MEAN
        STD
        SUM NONOBS      ;
    VAR EMO_Strength EMO_Obscurity1;
    CLASS NAME /      ORDER=UNFORMATTED ASCENDING;

RUN;
/* -----
   End of task code.
   ----- */
RUN; QUIT;
%_eg_conditional_dropds(WORK.SORTTempTableSorted);
TITLE; FOOTNOTE;

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

```

```

/* START OF NODE: Query Builder */
%LET _CLIENTTASKLABEL='Query Builder';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

GOPTIONS ACCESSIBLE;
%_eg_conditional_dropds(WORK.QUERY_FOR_YAMMERANDMASTER);

PROC SQL;
  CREATE TABLE WORK.QUERY_FOR_YAMMERANDMASTER AS
  SELECT t1.F1,
         t1.NAME,
         t1.DATETIME,
         t1.DATE,
         t1.TIME,
         /* SOURCE */
         (IFC(t1.SOURCE="", "YAMMER", t1.SOURCE, "YAMMER")) LABEL="SOURCE" AS
SOURCE,
         t1.MESSAGE,
         t1.MEDIA,
         t1.TITLE
  FROM WORK.YAMMERANDMASTER t1;
QUIT;

GOPTIONS NOACCESSIBLE;

%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

/* START OF NODE: Import Data (Facebook Feed.txt) */
%LET _CLIENTTASKLABEL='Import Data (Facebook Feed.txt)';
%LET
_CLIENTPROJECTPATH='C:\Users\BoydOw\Documents\Programs\SAS\SP_Finder.egp';
%LET _CLIENTPROJECTNAME='SP_Finder.egp';

GOPTIONS ACCESSIBLE;
/* -----
Code by Boyd Owens

```

Generated on Tuesday, July 14, 2015 at 1:39:32 PM

Source file: E:\Facebook Feed.txt

Server: Local File System

Output data: WORK.'Facebook Feed'n

Server: SASApp

Note: In preparation for running the following code, the Import Data wizard has used internal routines to transfer the source data file from the local file system to SASApp. There is no SAS code available to represent this action.

----- */

```
DATA WORK.'Facebook Feed'n;
  LENGTH
    F1          $ 462 ;
  FORMAT
    F1          $CHAR462. ;
  INFORMAT
    F1          $CHAR462. ;
  INFILE
    '/user_projects_production/sasworkspace/SAS_work2748000072FA_qusasprdapp1.arrisi.com/#
LN00098'
    LRECL=32767
    ENCODING="LATIN1"
    DLM='09'x
    MISSOVER
    DSD ;
  INPUT
    F1          : $CHAR462. ;
RUN;

GOPTIONS NOACCESSIBLE;
%LET _CLIENTTASKLABEL=;
%LET _CLIENTPROJECTPATH=;
%LET _CLIENTPROJECTNAME=;

;*,*,*/;quit;run;
ODS _ALL_ CLOSE;
```

