

Important Query related to Tablesapce

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How to retrieve tablespace default storage Parameters?

```
SELECT TABLESPACE_NAME "TABLESPACE",  
       INITIAL_EXTENT "INITIAL_EXT",  
       NEXT_EXTENT "NEXT_EXT",  
       MIN_EXTENTS "MIN_EXT",  
       MAX_EXTENTS "MAX_EXT",  
       PCT_INCREASE  
FROM DBA_TABLESPACES;
```

TABLESPACE	INITIAL_EXT	NEXT_EXT	MIN_EXT	MAX_EXT	PCT_INCREASE
RBS	1048576	1048576	2	40	0
SYSTEM	106496	106496	1	99	1
TEMP	106496	106496	1	99	0
TESTTBS	57344	16384	2	10	1
USERS	57344	57344	1	99	1

How to retrieve information tablespace and associated datafile?

```
SELECT FILE_NAME, BLOCKS, TABLESPACE_NAME FROM DBA_DATA_FILES;
```

FILE_NAME	BLOCKS	TABLESPACE_NAME
/U02/ORACLE/IDDB3/RBS01.DBF	1536	RBS
/U02/ORACLE/IDDB3/SYSTEM01.DBF	6586	SYSTEM
/U02/ORACLE/IDDB3/TEMP01.DBF	6400	TEMP
/U02/ORACLE/IDDB3/TESTTBS01.DBF	6400	TESTTBS
/U02/ORACLE/IDDB3/USERS01.DBF	384	USERS

How to retrieve Statistics for Free Space (Extents) of Each Tablespace?

```
SELECT TABLESPACE_NAME "TABLESPACE", FILE_ID,  
       COUNT(*) "PIECES",  
       MAX(blocks) "MAXIMUM",  
       MIN(blocks) "MINIMUM",  
       AVG(blocks) "AVERAGE",  
       SUM(blocks) "TOTAL"  
FROM DBA_FREE_SPACE  
GROUP BY TABLESPACE_NAME, FILE_ID;
```

TABLESPACE	FILE_ID	PIECES	MAXIMUM	MINIMUM	AVERAGE	TOTAL
RBS	2	1	955	955	955	955
SYSTEM	1	1	119	119	119	119
TEMP	4	1	6399	6399	6399	6399
TESTTBS	5	5	6364	3	1278	6390
USERS	3	1	363	363	363	363

PIECES shows the number of free space extents in the tablespace file, MAXIMUM and MINIMUM show the largest and smallest contiguous area of space in database blocks, AVERAGE shows the average size in blocks of a free space extent, and TOTAL shows the amount of free space in each tablespace file in blocks. This query is useful when you are going to create a new object or you know that a segment is about to extend, and you want to make sure that there is enough space in the containing tablespace.

Find Size, Used and Free Space in Tablespace

```
column "Tablespace" format a13  
column "Used MB"    format 99,999,999  
column "Free MB"    format 99,999,999  
column "Total MB"   format 99,999,999  
select  
  fs.tablespace_name          "Tablespace",  
  (df.totalspace - fs.freespace) "Used MB",  
  fs.freespace                "Free MB",  
  df.totalspace                "Total MB",  
  round(100 * (fs.freespace / df.totalspace)) "Pct. Free"  
from  
  (select  
    tablespace_name,  
    round(sum(bytes) / 1048576) TotalSpace  
  from  
    dba_data_files
```

```

group by
    tablespace_name
) df,
(select
    tablespace_name,
    round(sum(bytes) / 1048576) FreeSpace
from
    dba_free_space
group by
    tablespace_name
) fs
where
    df.tablespace_name = fs.tablespace_name;

```

Check the tablespace Size

```

col "Tablespace" for a22
col "Used MB" for 99,999,999
col "Free MB" for 99,999,999
col "Total MB" for 99,999,999

```

```

select df.tablespace_name "Tablespace",
totalusedspace "Used MB",
(df.totalspace - tu.totalusedspace) "Free MB",
df.totalspace "Total MB",
round(100 * ( (df.totalspace - tu.totalusedspace)/ df.totalspace))
"Pct. Free"
from
(select tablespace_name,
round(sum(bytes) / 1073741824) TotalSpace
from dba_data_files
group by tablespace_name) df,
(select round(sum(bytes)/(1024*1024*1024)) totalusedspace, tablespace_name
from dba_segments
group by tablespace_name) tu
where    df.tablespace_name    =    tu.tablespace_name    and    df.tablespace_name    in
('&tablespace_name');

```