

```
begin tran  
commit tran
```

```
begin tran  
rollback tran
```

```
begin tran  
commit tran  
rollback tran
```

```
drop table TestTbl  
begin tran  
create table TestTbl  
(  
    id int,  
    name varchar(50)  
)  
commit tran
```

```
drop table TestTbl  
begin tran  
create table TestTbl  
(  
    id int,  
    name varchar(50)  
)  
--commit tran
```

```
insert into testtbl values (1,'Hasan')  
select * from testtbl  
delete from testtbl
```

```
begin transaction  
insert into testtbl values (1,'Labib')  
rollback transaction
```

```
begin transaction  
insert into testtbl values (1,'Habib')  
commit transaction
```

```
begin transaction  
insert into testtbl values (1,'Rabbi')
```

```
commit transaction
```

```
begin transaction
```

```
insert into testtbl values (1,'Fuad')
```

```
commit transaction
```

```
begin transaction
```

```
insert into testtbl values (1,'Masud')
```

```
select * from testtbl
```

```
rollback transaction
```

```
select * from testtbl
```

```
declare @t varchar(50)='testT'
```

```
begin transaction @t
```

```
insert into testtbl values (1,'Masud')
```

```
select * from testtbl
```

```
rollback transaction @t
```

```
select * from testtbl
```

```
declare @t varchar(50)='testT'
```

```
begin transaction @t
```

```
insert into testtbl values (1,'Masud')
```

```
select * from testtbl
```

```
Commit transaction @t
```

```
select * from testtbl
```

```
-----error handing
```

```
--RAISERROR
```

```
--THROW
```

```
--TRY_CONVERT and TRY_PARSE
```

```
--@@ERROR
```

```
--Structured Error handling Using TRY/CaTCh
```

```
select 10/0
```

```
RAISERROR('This is a test',16,1)
```

```
RAISERROR('This is a test',10,1)
```

```
RAISERROR('This is a test',19,1) with log
```

```
RAISERROR('This is a test',20,1) with log
```

```
Begin try
```

```
    select 10/0
```

```
end try
```

```
begin catch
```

```

print 'before throw';
throw;
print 'after throw';
end catch

Begin try
    select 10/0
end try
begin catch
    print 'before throw';
    declare @errmsg varchar(4000),
            @errseverity int,
            @errstate int
    set @errmsg=error_message();
    set @errseverity=ERROR_SEVERITY ();
    set @errstate=ERROR_STATE ();
    select @errmsg,@errseverity,@errstate
    RAISERROR('This is a test',@errseverity,@errstate)
    print 'after throw';
end catch

begin try
    select 10/0
end try
begin catch
    declare @errNumber int
    set @errNumber=@@error
    if @errNumber=8134
        begin
            print 'this is a div err'
        end
    else
        begin
            print 'not div error'
        end
end catch

select * from testtbl
begin try
    begin transaction
    insert into testtbl values (1,'Masud3')
    select 10/0
    commit tran

```

```

end try
begin catch
    rollback
    raiserror ('this is a div error',16,1)
end catch

SELECT TRY_CONVERT(DATETIME, '1752-12-31');
SELECT TRY_CONVERT(DATETIME, '1753-01-01');
select TRY_CONVERT(int,'01a')

select try_parse('01/Feb/2014' as date)

-----dynamic sql
select * from testtbl
select * from sqltest

declare @tblName varchar(50)='hr.Employees'
execute ('select * from ' + @tblName)

declare @tblName varchar(50)='sales.MyOrders'
exec ('select * from ' + @tblName)

declare @tblName varchar(50)='testtbl'
set @tblName='select * from '+@tblName
exec (@tblName)

create proc testProc
as
begin
declare @tblName varchar(50)='testtbl'
set @tblName='select * from '+@tblName
exec (@tblName)
end

exec testProc

select * from testtbl where name='Masud'
select ('select * from testtbl where name="Masud"')
exec ('select * from testtbl where name="Masud"')

declare @testName varchar(50)
set @testName=""Masud"""
--select ('select * from testtbl where name='+@testName+")

```

```
exec ('select * from testtbl where name=' + @testName)
select * from testtbl where name='Masud'
select * from testtbl where name='Masud'
```

```
declare @testName varchar(50)
set @testName = "Masud" or 1=1
exec ('select * from testtbl where name=' + @testName)
```

```
EXECUTE sys.sp_executesql
@statement = N'select * from testtbl where name=@testName;',
@params = N'@testName varchar(50)',
@testName = 'Masud or 1=1';
```