

Testing SQL On SQL Server

```
select @@LANGUAGE as serverlang
select @@version
print @@version
SELECT * FROM [sys].[dm_tcp_listener_states]
```

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the server hierarchy for 'VOTHANA-CHY\SQLEXPRESS'. The main window shows a query window with the following SQL code:

```
select @@LANGUAGE as serverlang
select @@version
print @@version
SELECT * FROM [sys].[dm_tcp_listener_states]
```

The Results pane shows the output of the query:

serverlang
us_english

The Messages pane shows the output of the PRINT statement:

```
Microsoft SQL Server 2019 (RTM) - 15.0.2000.5 (X64) Sep 24 2019 13:48:23 Copyright (C) 2019 Microsoft Corporation Express Editio...
```

The status bar at the bottom indicates 'Query executed successfully.' and '2 rows'.

```
IF EXISTS (SELECT name FROM sys.databases WHERE name = 'dbElibrary')
    print 'Existing database'
ELSE
    CREATE DATABASE dbElibrary
```

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the server hierarchy for 'VOTHANA-CHY\SQLEXPRESS'. The main window shows a script window with the following SQL code:

```
IF EXISTS ( SELECT name FROM sys.databases WHERE name = 'dbElibrary' )
    print 'Existing database'
ELSE
    CREATE DATABASE dbElibrary
```

The Messages pane shows the output of the script:

```
Commands completed successfully.
Completion time: 2022-09-21T23:01:02.1881284+07:00
```

The status bar at the bottom indicates 'Query executed successfully.' and '0 rows'.

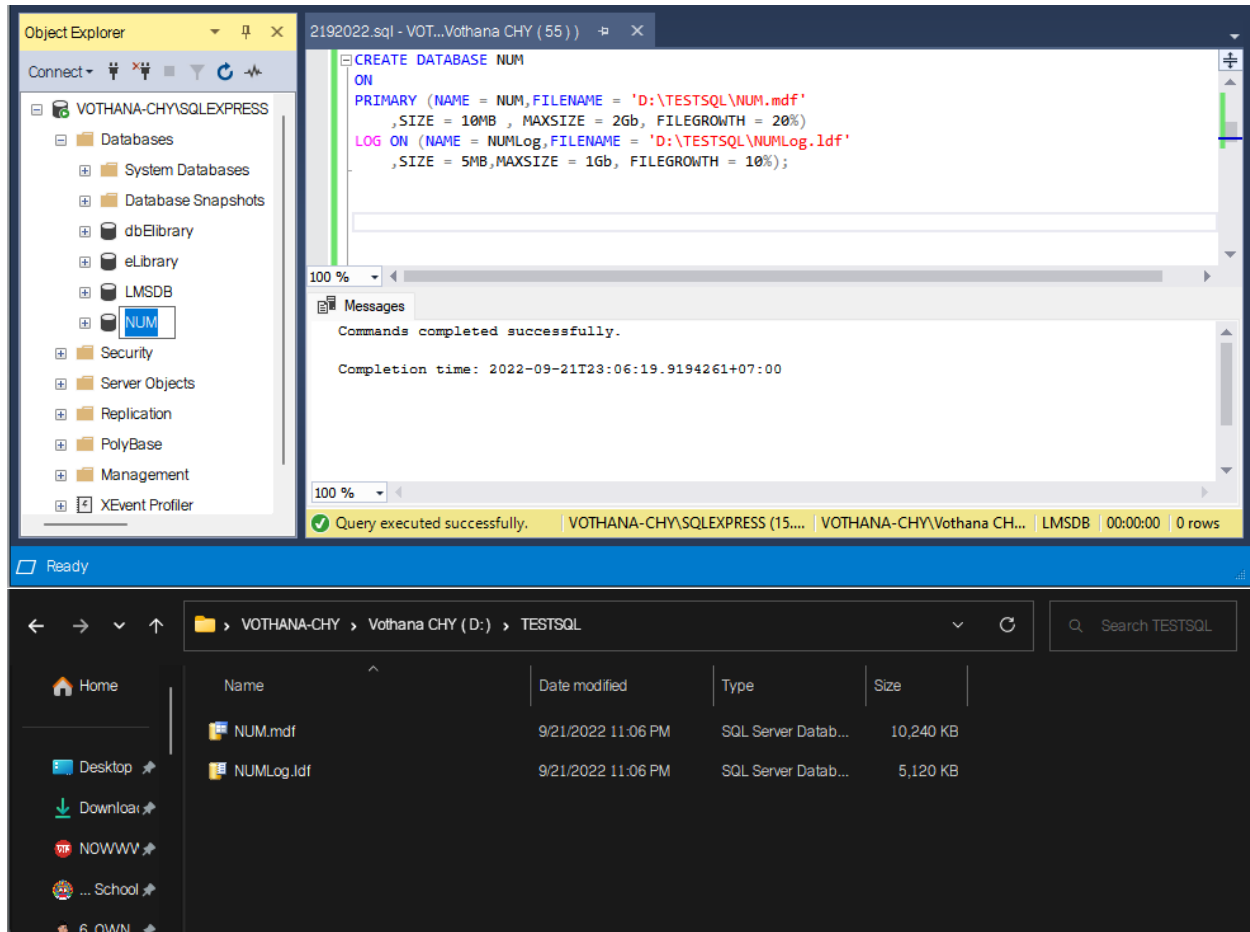
The bottom pane shows the 'Select a page' tab, displaying the properties of the newly created database 'dbElibrary':

Logical Name	File Type	Filegroup	Size (MB)	Autogrowth / Maxsize	Path	File Name
dbElibrary	ROWS...	PRIMARY	8	By 64 MB, Unlimited	C:\Program Files\Microsoft SQL Server\MSSQL15.SQLEXPRESS\MSSQL\DATA	dbElibrary.mdf
dbElibrary_log	LOG	Not Applicable	4	By 64 MB, Limited to 2...	C:\Program Files\Microsoft SQL Server\MSSQL15.SQLEXPRESS\MSSQL\DATA	dbElibrary_log.ldf

```

CREATE DATABASE NUM
ON
PRIMARY (NAME = NUM, FILENAME = 'D:\TESTSQL\NUM.mdf'
,SIZE = 10MB , MAXSIZE = 2Gb, FILEGROWTH = 20%)
LOG ON (NAME = NUMLog, FILENAME = 'D:\TESTSQL\NUMLog.ldf'
,SIZE = 5MB,MAXSIZE = 1Gb, FILEGROWTH = 10%);

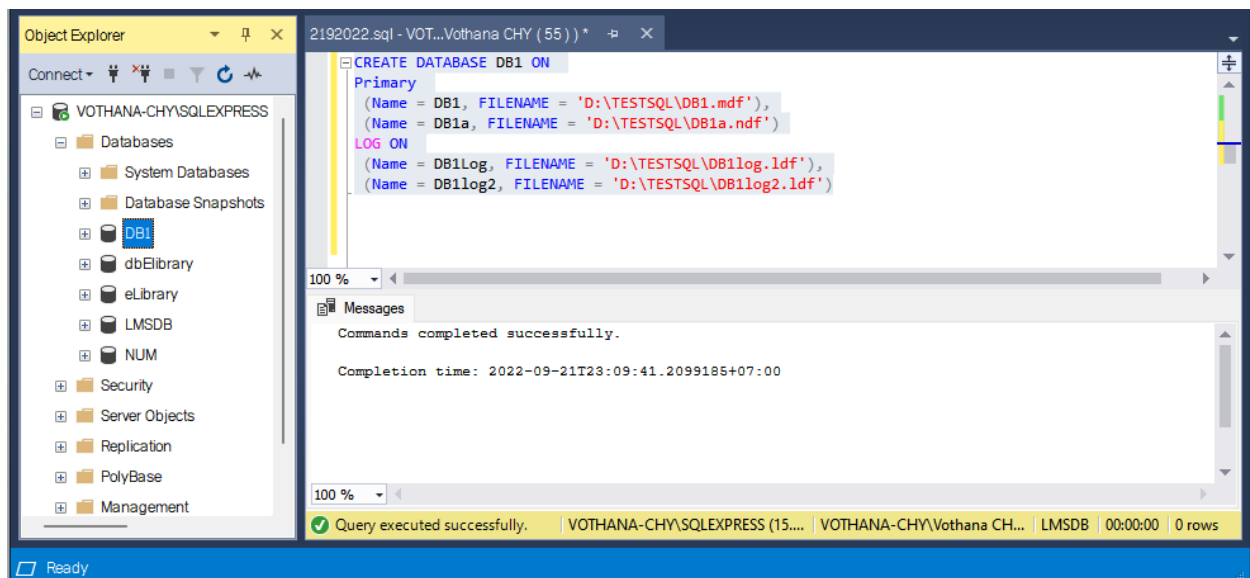
```

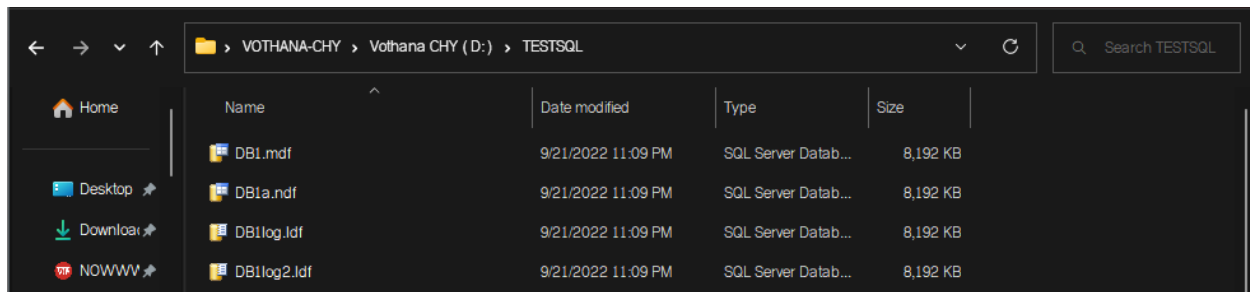


```

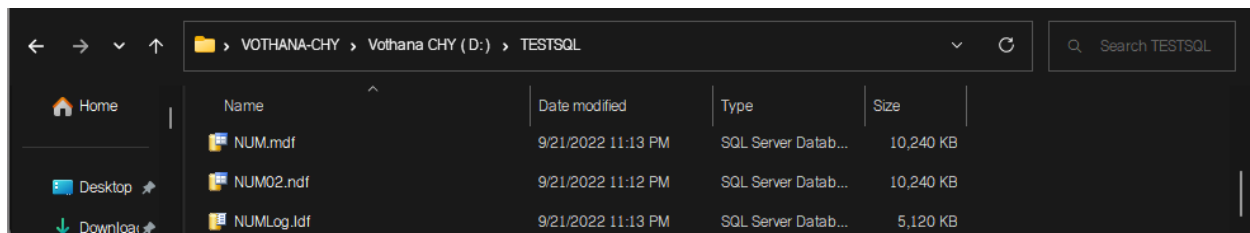
CREATE DATABASE DB1 ON
Primary
(Name = DB1, FILENAME = 'D:\TESTSQL\DB1.mdf'),
(Name = DB1a, FILENAME = 'D:\TESTSQL\DB1a.ndf')
LOG ON
(Name = DB1log, FILENAME = 'D:\TESTSQL\DB1log.ldf'),
(Name = DB1log2, FILENAME = 'D:\TESTSQL\DB1log2.ldf')

```

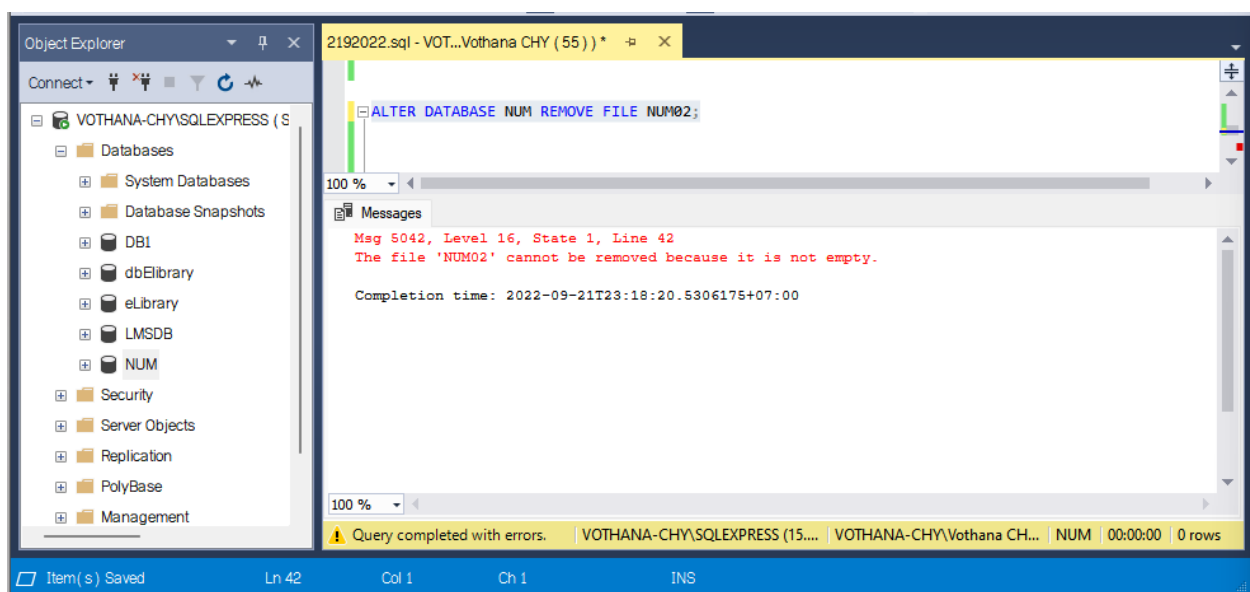




```
ALTER DATABASE NUM
ADD FILE
(NAME = NUM02,
FILENAME = 'D:\TESTSQL\NUM02.ndf',
SIZE = 10MB,MAXSIZE = 2Gb,FILEGROWTH = 20);
```



```
ALTER DATABASE NUM REMOVE FILE NUM02;
```



```
SELECT [name],physical_name
from sys.database_files
```

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the server 'VOTHANA-CHY\SQLEXPRESS' with various databases listed. The main window shows a query window with the following SQL code:

```
SELECT [name],physical_name
from sys.database_files
```

The query results are displayed in a table with two columns: 'name' and 'physical_name'. The results are as follows:

	name	physical_name
1	NUM	D:\TESTSQL\NUM.mdf
2	NUMLog	D:\TESTSQL\NUMLog.ldf
3	NUM02	D:\TESTSQL\NUM02.ndf

The status bar at the bottom indicates 'Query executed successfully.' and '3 rows'.

```
drop database NUM,dbElibrary
Select name from sys.databases
```

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the server 'VOTHANA-CHY\SQLEXPRESS' with various databases listed. The main window shows a query window with the following SQL code:

```
drop database NUM,dbElibrary
Select name from sys.databases
```

The query results are displayed in a table with one column: 'name'. The results are as follows:

	name
1	master
2	tempdb
3	model
4	msdb
5	eLibrary
6	LMSDB
7	DB1

The status bar at the bottom indicates 'Query completed with errors.' and '7 rows'.

```
create database dbstudent;
```

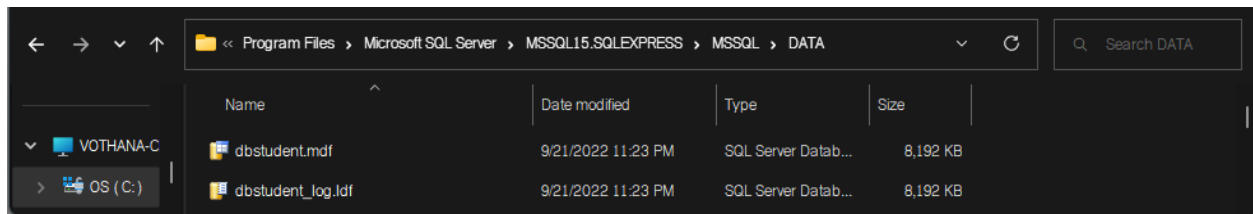
The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the server 'VOTHANA-CHY\SQLEXPRESS' with various databases listed. The main window shows a query window with the following SQL code:

```
create database dbstudent;
```

The query results are displayed in a table with one column: 'name'. The results are as follows:

	name
1	master
2	tempdb
3	model
4	msdb
5	eLibrary
6	LMSDB
7	DB1

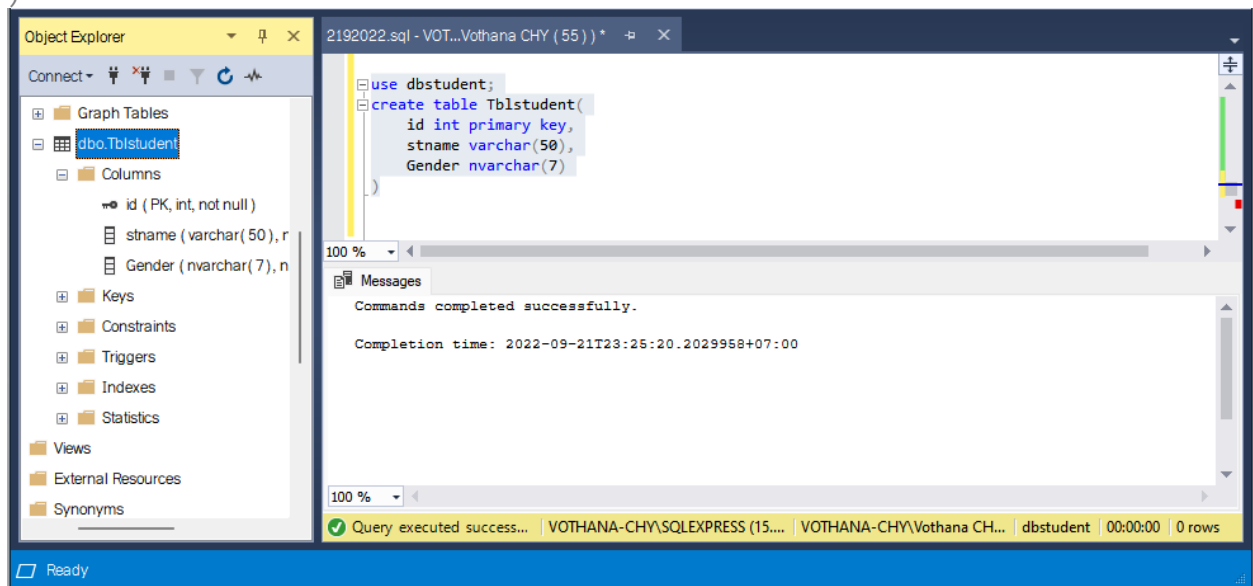
The status bar at the bottom indicates 'Query executed successfully.' and '0 rows'.



```

use dbstudent;
create table Tblstudent(
    id int primary key,
    stname varchar(50),
    Gender nvarchar(7)
)

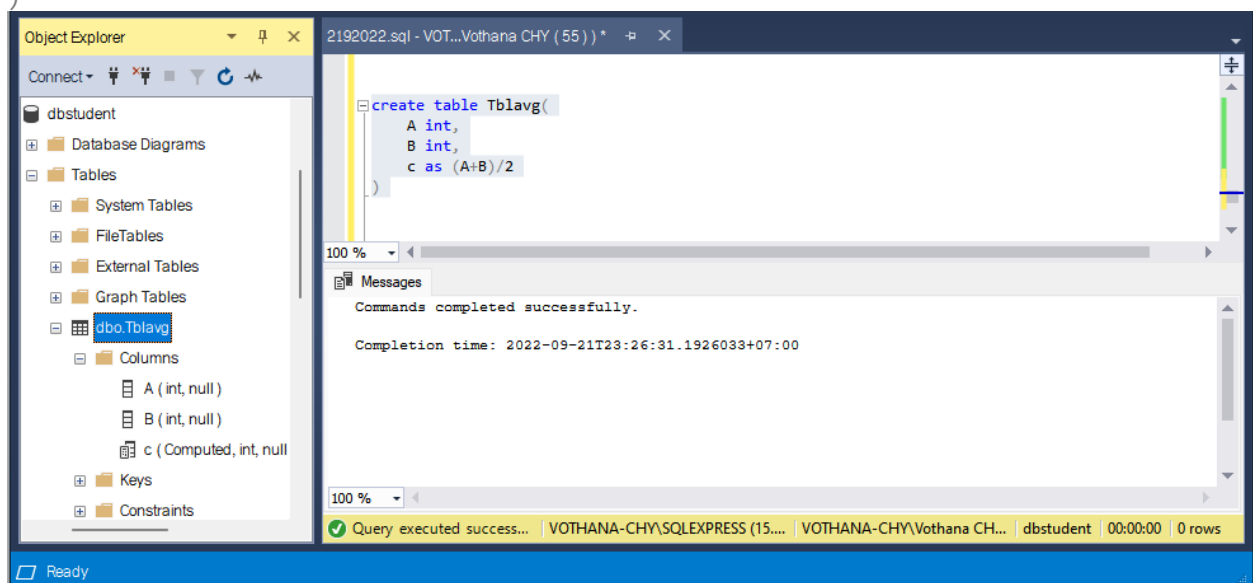
```



```

create table Tblavg(
    A int,
    B int,
    c as (A+B)/2
)

```



```
insert into tblavg values(81,72)
select * from Tblavg
```

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure, including tables and views. The central query window shows the following SQL code:

```
insert into tblavg values(81,72)
select * from Tblavg
```

The Results pane below the query window displays the following data:

	A	B	c
1	89	91	90
2	89	92	90.5
3	81	72	76.5

The status bar at the bottom indicates the query was executed successfully, showing the server name, database name, and execution time.