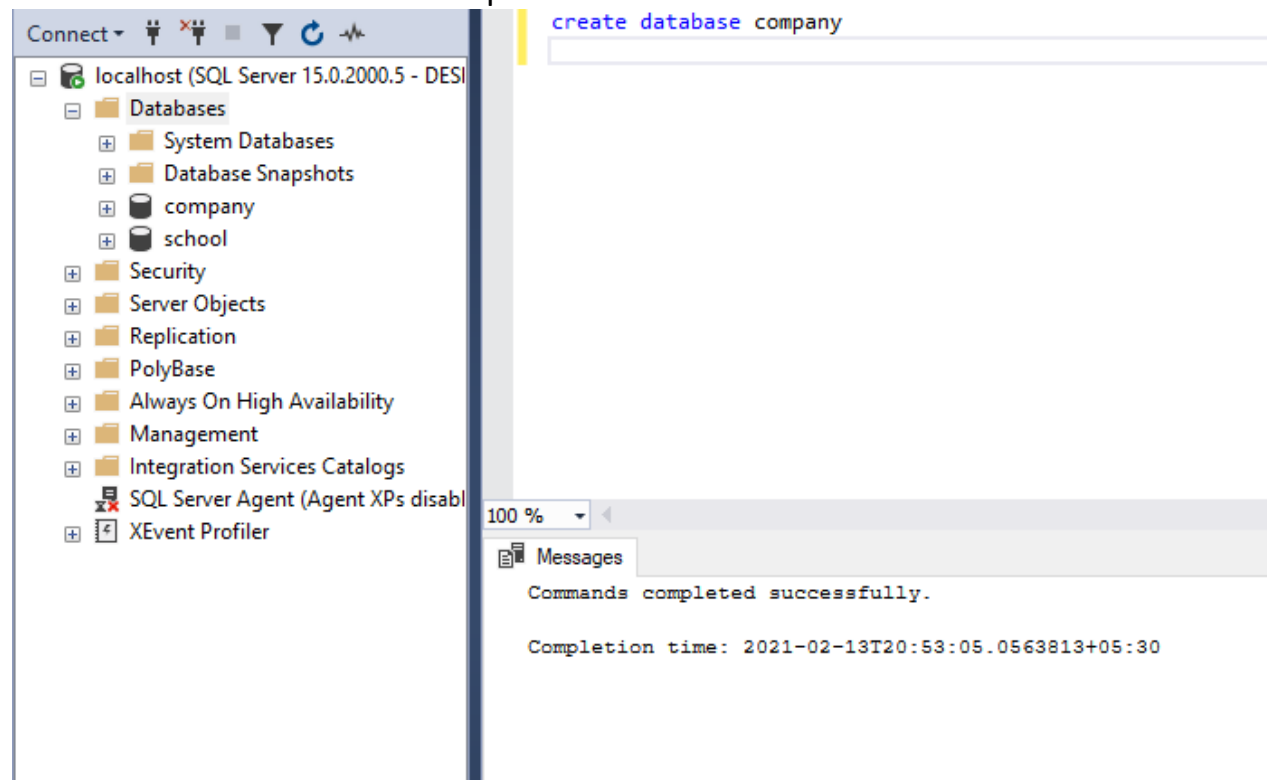
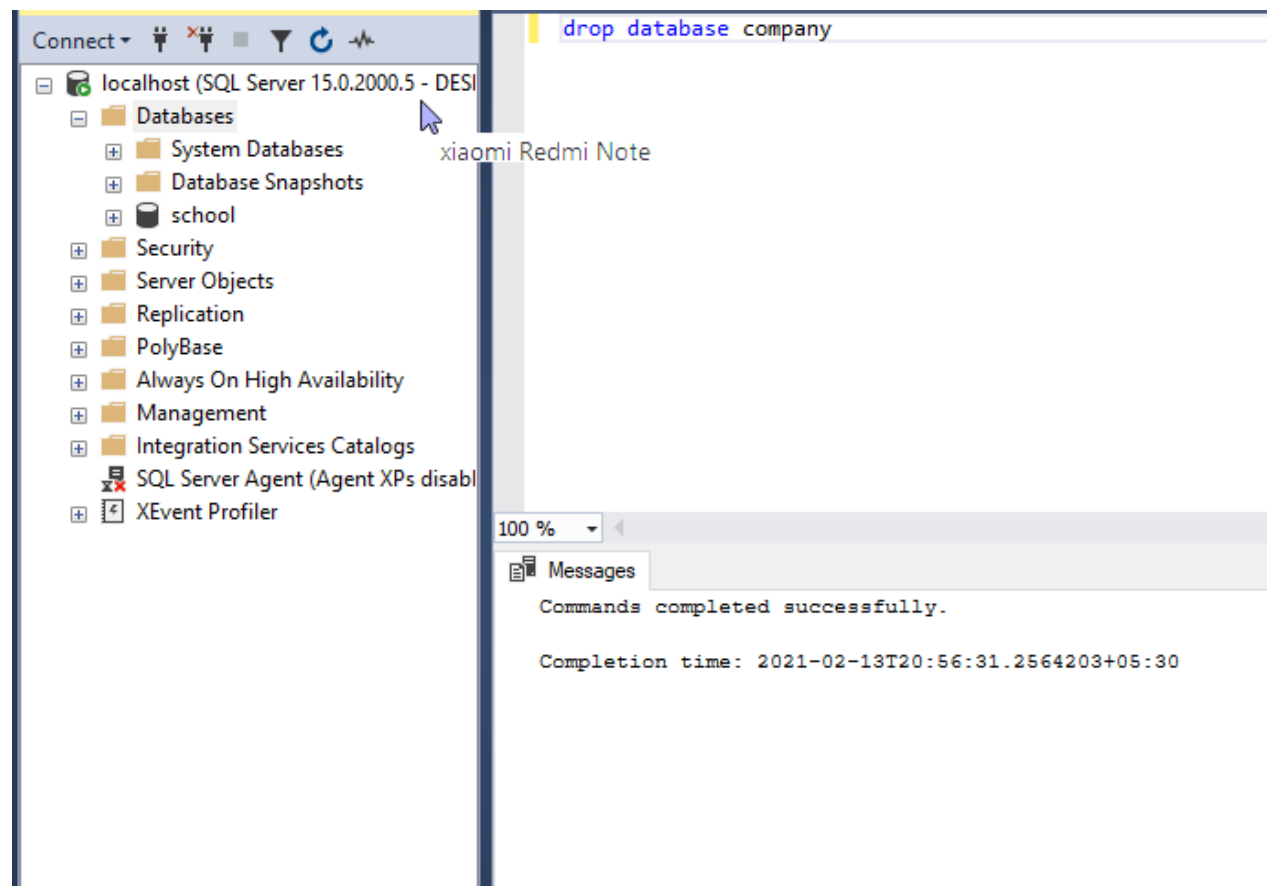


NAME : D ABHINAV

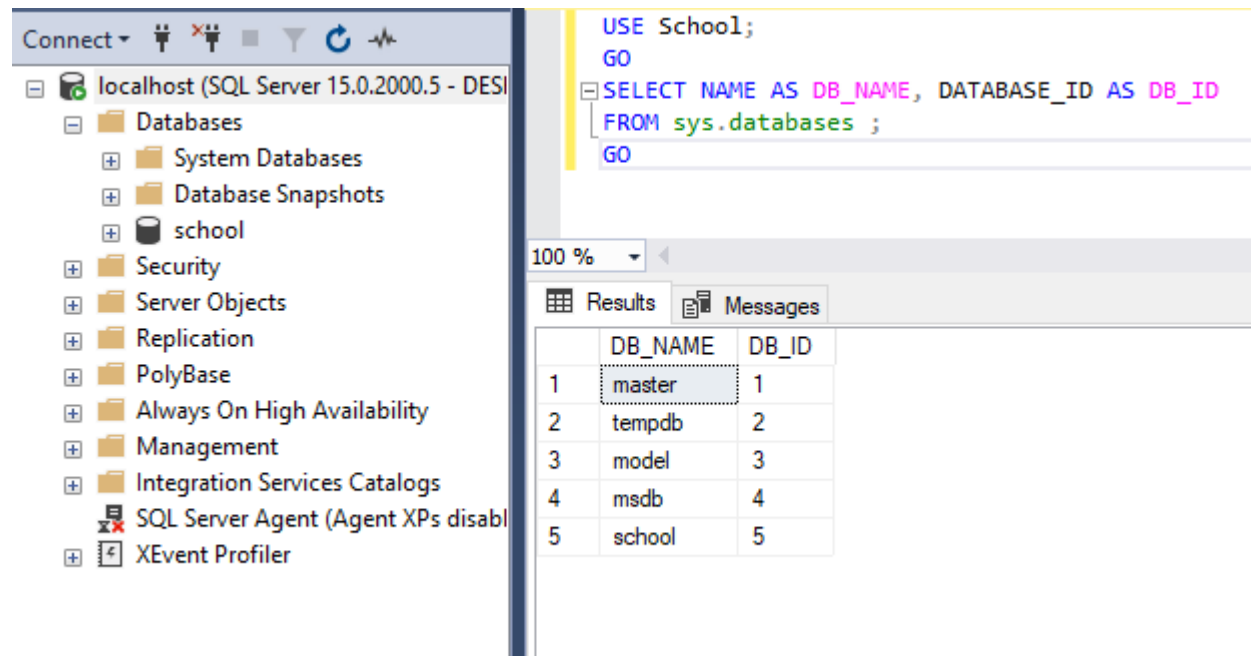
REG NO: 19BCS040

1. Show how to Create and Drop Database.





2. Show all the Databases are in the system.



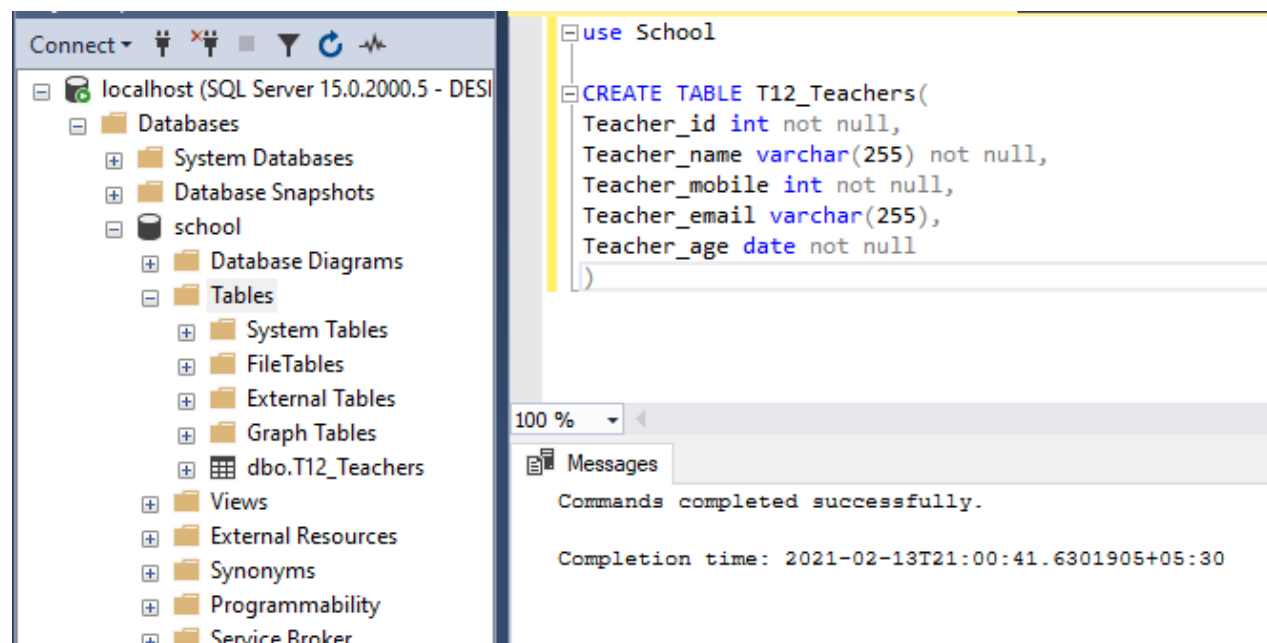
The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Databases' folder is expanded, showing 'System Databases', 'Database Snapshots', and 'school'. On the right, a query window is open with the following SQL code:

```
USE School;
GO
SELECT NAME AS DB_NAME, DATABASE_ID AS DB_ID
FROM sys.databases ;
GO
```

Below the query window, the 'Results' tab is selected, displaying a table with the following data:

	DB_NAME	DB_ID
1	master	1
2	tempdb	2
3	model	3
4	msdb	4
5	school	5

3. Create Table for your Database.



The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Tables' folder is expanded under the 'school' database, showing 'System Tables', 'FileTables', 'External Tables', 'Graph Tables', and 'dbo.T12_Teachers'. On the right, a query window is open with the following SQL code:

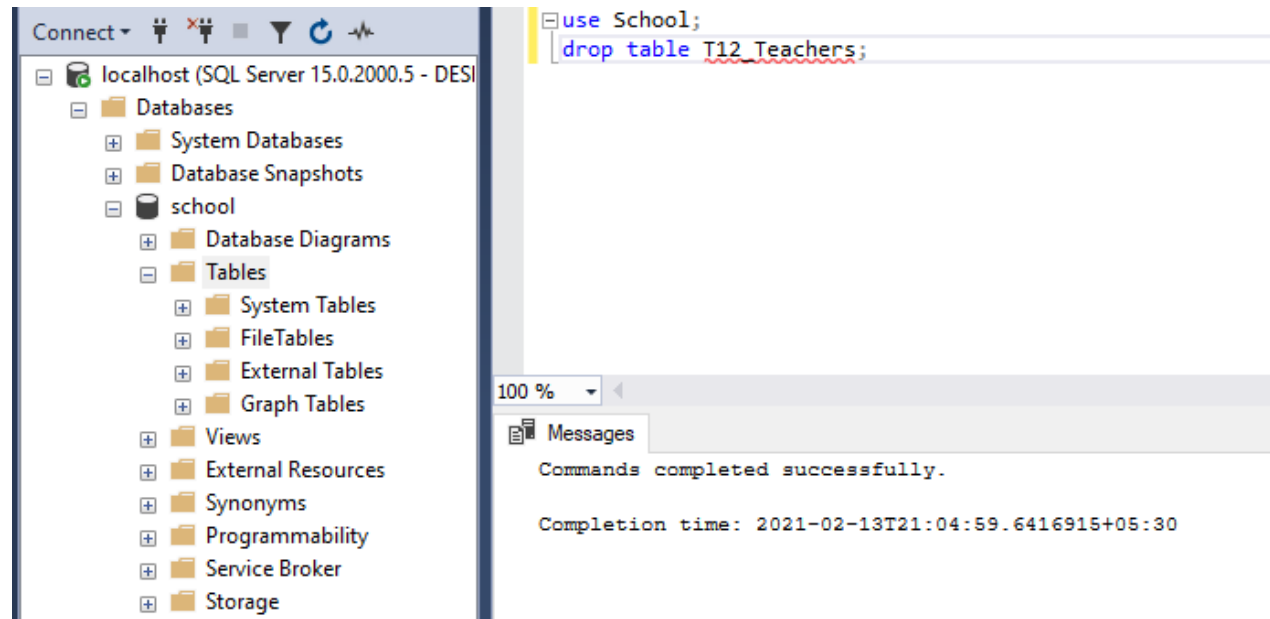
```
use School
CREATE TABLE T12_Teachers(
Teacher_id int not null,
Teacher_name varchar(255) not null,
Teacher_mobile int not null,
Teacher_email varchar(255),
Teacher_age date not null
)
```

Below the query window, the 'Messages' tab is selected, displaying the following message:

Commands completed successfully.

Completion time: 2021-02-13T21:00:41.6301905+05:30

4. Drop table.



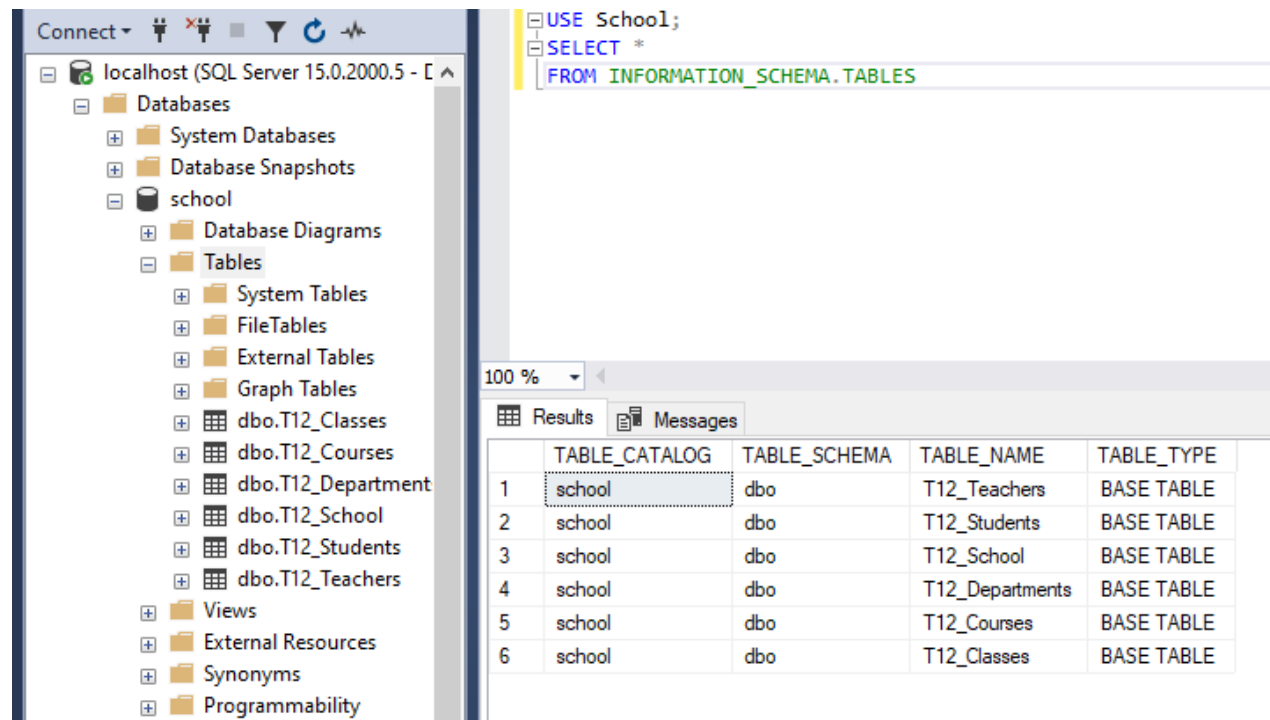
The screenshot shows the SQL Server Enterprise Manager interface on the left, with the 'Tables' folder expanded under the 'school' database. On the right, the Query Editor displays the following SQL command:

```
use School;  
drop table T12_Teachers;
```

The Messages pane at the bottom indicates that the commands were completed successfully.

Completion time: 2021-02-13T21:04:59.6416915+05:30

5. Show how to check the schema of the tables.



The screenshot shows the SQL Server Enterprise Manager interface on the left, with the 'Tables' folder expanded under the 'school' database. On the right, the Query Editor displays the following SQL command:

```
USE School;  
SELECT *  
FROM INFORMATION_SCHEMA.TABLES
```

The Results pane at the bottom shows the output of the query, which lists the tables in the 'school' database along with their schema and type.

	TABLE_CATALOG	TABLE_SCHEMA	TABLE_NAME	TABLE_TYPE
1	school	dbo	T12_Teachers	BASE TABLE
2	school	dbo	T12_Students	BASE TABLE
3	school	dbo	T12_School	BASE TABLE
4	school	dbo	T12_Departments	BASE TABLE
5	school	dbo	T12_Courses	BASE TABLE
6	school	dbo	T12_Classes	BASE TABLE

6. Show all the tables from the database (This is not done in class.)

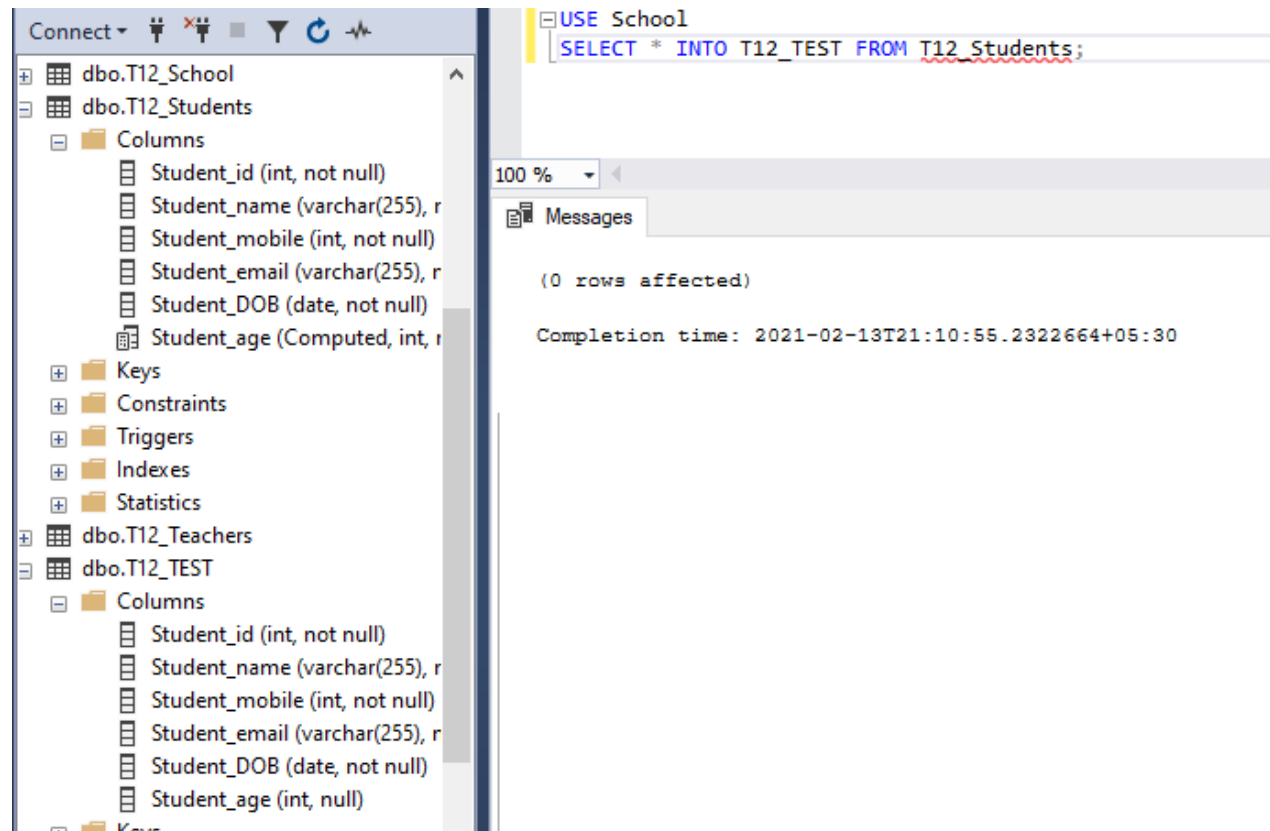
The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'Databases' folder is expanded, showing the 'school' database. Under 'Tables', several tables are listed: 'System Tables', 'FileTables', 'External Tables', 'Graph Tables', 'dbo.T12_Classes', 'dbo.T12_Courses', 'dbo.T12_Department', 'dbo.T12_School', 'dbo.T12_Students', and 'dbo.T12_Teachers'. On the right, a query window shows the following SQL code:

```
USE School;  
SELECT *  
FROM INFORMATION_SCHEMA.TABLES
```

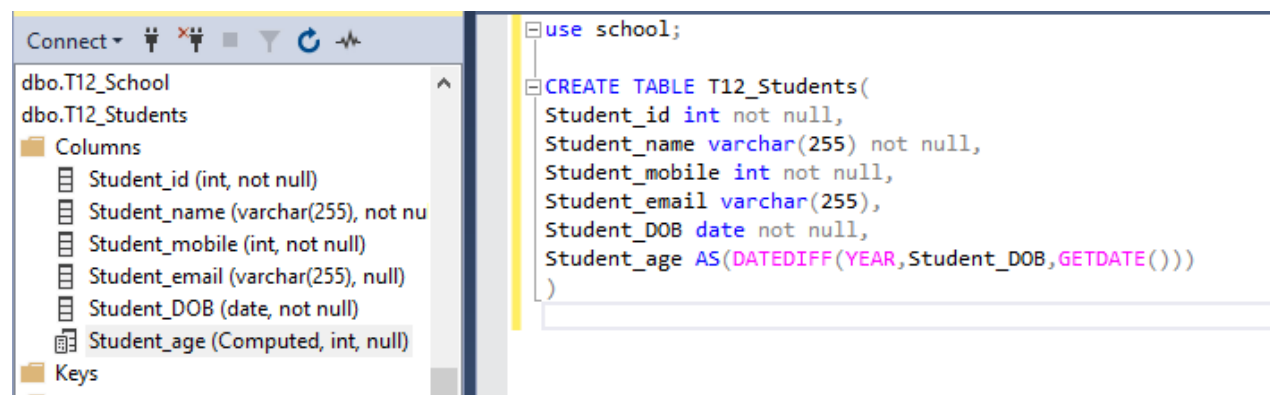
Below the query window, the 'Results' tab is active, displaying a table with the following data:

	TABLE_CATALOG	TABLE_SCHEMA	TABLE_NAME	TABLE_TYPE
1	school	dbo	T12_Teachers	BASE TABLE
2	school	dbo	T12_Students	BASE TABLE
3	school	dbo	T12_School	BASE TABLE
4	school	dbo	T12_Departments	BASE TABLE
5	school	dbo	T12_Courses	BASE TABLE
6	school	dbo	T12_Classes	BASE TABLE

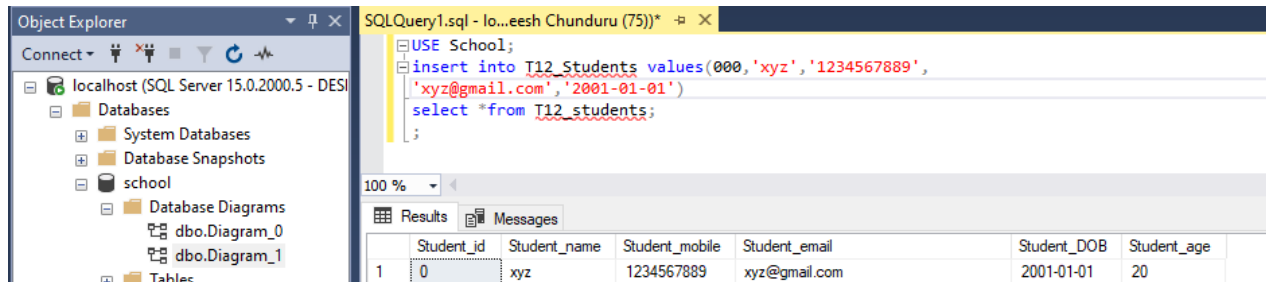
7. Create Table using Select Statement (I haven't showed you this. I want you to try, it is very simple you should not have any problem).



8. Create a table which has derived attribute. (Example can be Age is a derived attribute from Date of Birth. You should try this as well).



Query to Insert values in the table.



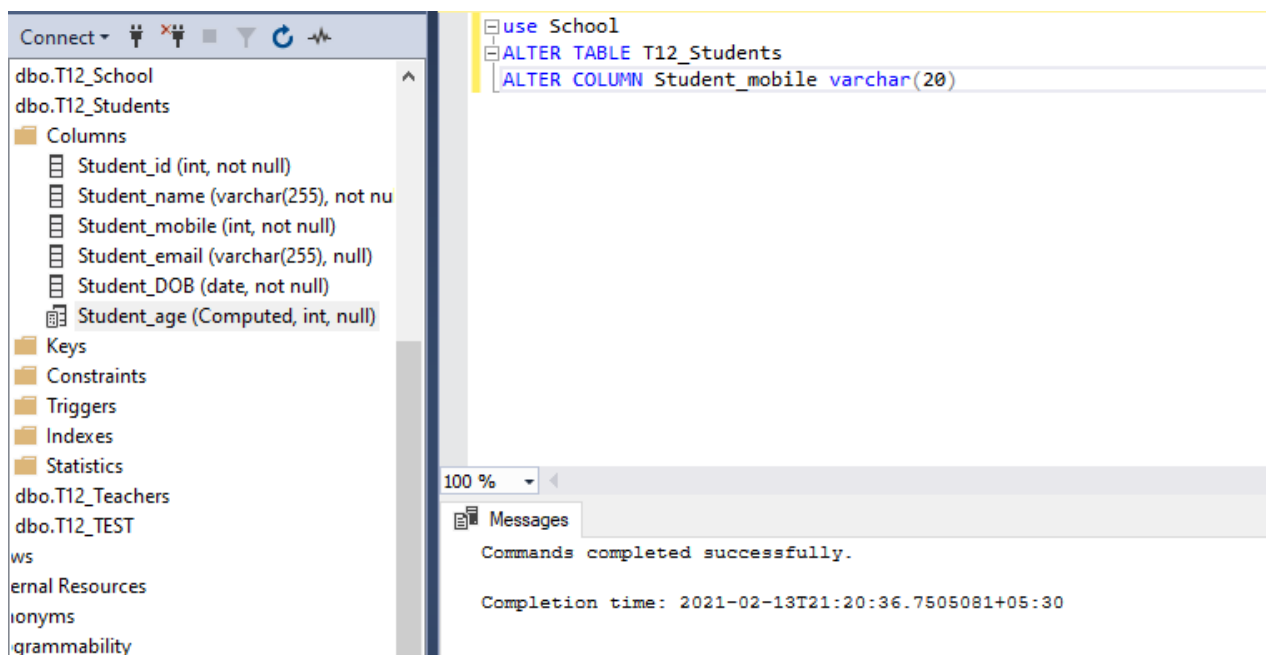
The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the 'school' database. The central pane shows a SQL query in the 'SQLQuery1.sql' file:

```
USE School;
insert into T12_Students values(000,'xyz','1234567889',
'xyz@gmail.com','2001-01-01')
select *from T12_students;
```

Below the query, the 'Results' tab shows the output of the 'select *from T12_students;' query:

Student_id	Student_name	Student_mobile	Student_email	Student_DOB	Student_age	
1	0	xyz	1234567889	xyz@gmail.com	2001-01-01	20

Query to change data type of a attribute.



The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the 'school' database. The central pane shows a SQL query in the 'SQLQuery1.sql' file:

```
use School
ALTER TABLE T12_Students
ALTER COLUMN Student_mobile varchar(20)
```

Below the query, the 'Messages' tab shows the output of the 'ALTER COLUMN' query:

```
Commands completed successfully.

Completion time: 2021-02-13T21:20:36.7505081+05:30
```