DBMS LAB ASSIGNMENT-2

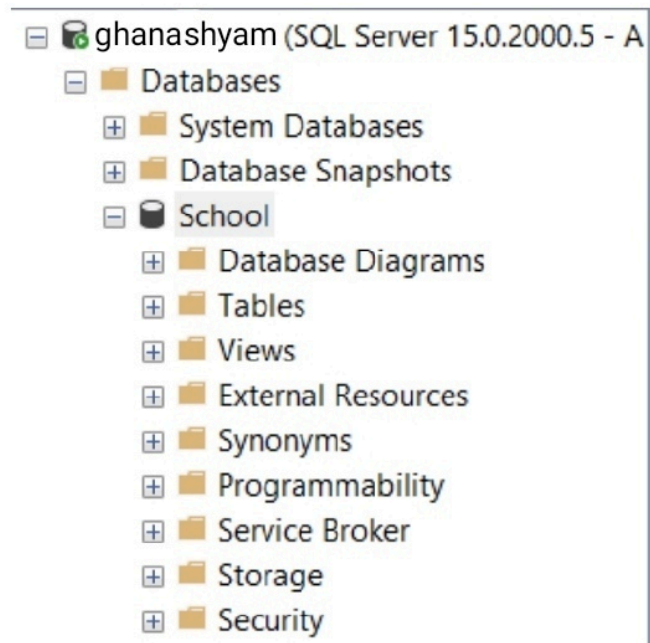**Name:** p.ghana shyam

Roll No: 19bcs086

1)Show how to Create and Drop Database.

Query to create Database:

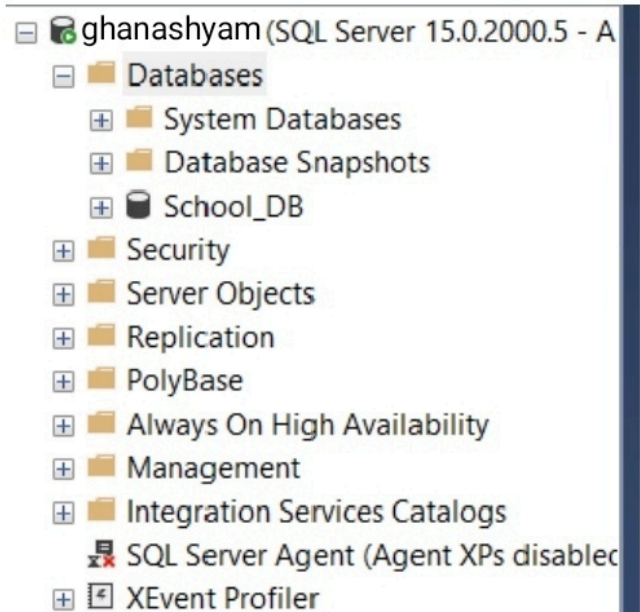***CREATE DATABASE** School*

OUTPUT: (database created)

Query to drop Database:

***DROP DATABASE** School;*

OUTPUT: (database deleted)

2) Show all the Databases that are in the system

Query:

```sql
USE School_DB;
GO
SELECT Name AS DatabaseName, database_id AS ID
FROM sys.databases ;
GO
```
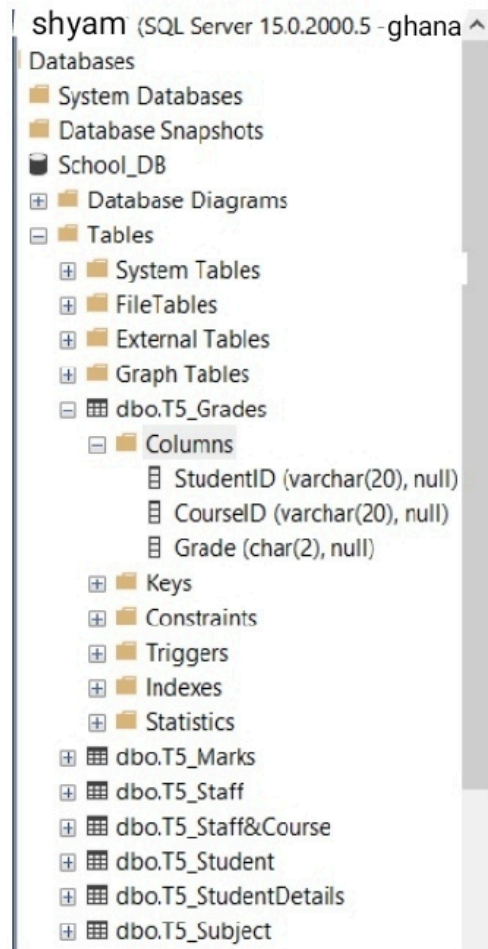
OUTPUT:

	DatabaseName	ID
1	master	1
2	tempdb	2
3	model	3
4	msdb	4
5	School_DB	5
6	DBMS	6

3) Create Table for your Database

Query to create table:

```
USE School_DB
CREATE TABLE T5_Grades(
StudentID varchar(20),
CourseID varchar(20),
Grade char(2),
)
```

OUTPUT: (Table created)

shyam (SQL Server 15.0.2000.5 -ghana
Databases
 System Databases
 Database Snapshots
 School_DB
 ⊞ Database Diagrams
 ⊟ Tables
  ⊞ System Tables
  ⊞ FileTables
  ⊞ External Tables
  ⊞ Graph Tables
  ⊟ dbo.T5_Grades
   ⊟ Columns
     StudentID (varchar(20), null)
     CourseID (varchar(20), null)
     Grade (char(2), null)
   ⊞ Keys
   ⊞ Constraints
   ⊞ Triggers
   ⊞ Indexes
   ⊞ Statistics
  ⊞ dbo.T5_Marks
  ⊞ dbo.T5_Staff
  ⊞ dbo.T5_Staff&Course
  ⊞ dbo.T5_Student
  ⊞ dbo.T5_StudentDetails
  ⊞ dbo.T5_Subject

Query to drop table:

DROP TABLE T5_Grades;

OUTPUT:

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Databases
- System Databases
- Database Snapshots
- School_DB
  - ⊞ Database Diagrams
  - ⊟ Tables
    - ⊞ System Tables
    - ⊞ FileTables
    - ⊞ External Tables
    - ⊞ Graph Tables
    - ⊞ ⊞ dbo.T5_Marks
    - ⊞ ⊞ dbo.T5_Staff
    - ⊞ ⊞ dbo.T5_Staff&Course
    - ⊞ ⊞ dbo.T5_Student
    - ⊞ ⊞ dbo.T5_StudentDetails
    - ⊞ ⊞ dbo.T5_Subject
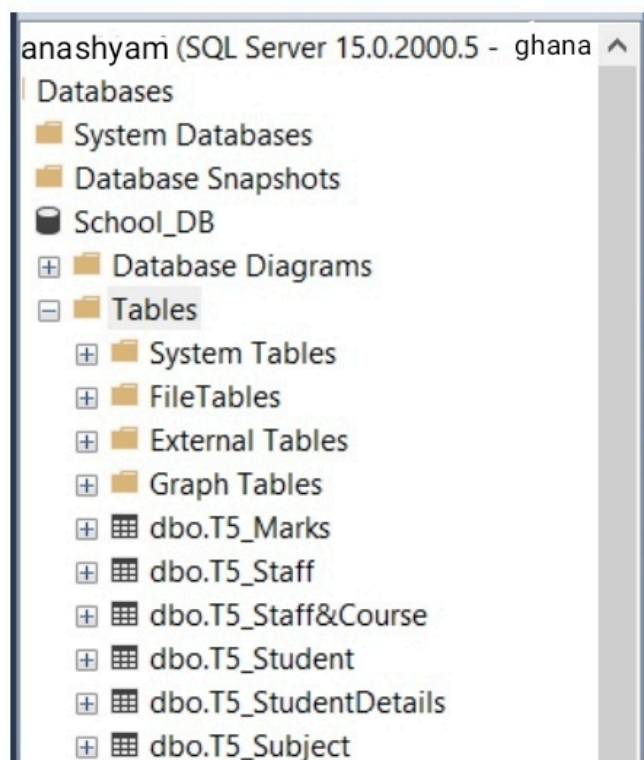
5) Show how to check the schema of the tables

& 6) Show all the tables from the database
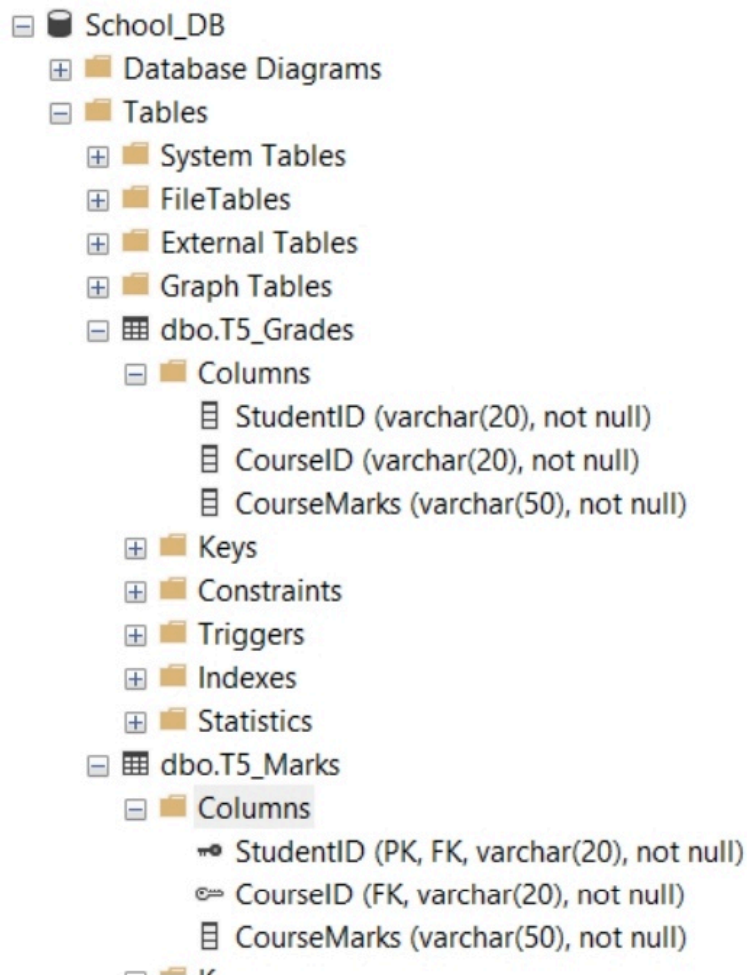
Query:

SELECT * FROM INFORMATION_SCHEMA.TABLES

OUTPUT:

	TABLE_CATALOG	TABLE_SCHEMA	TABLE_NAME	TABLE_TYPE
1	School_DB	dbo	T5_Student	BASE TABLE
2	School_DB	dbo	T5_Subject	BASE TABLE
3	School_DB	dbo	T5_Marks	BASE TABLE
4	School_DB	dbo	T5_StudentDetails	BASE TABLE
5	School_DB	dbo	T5_Staff	BASE TABLE
6	School_DB	dbo	T5_Staff&Course	BASE TABLE
7	School_DB	dbo	sysdiagrams	BASE TABLE

7) Create Table using Select Statement

Query:

```
SELECT * INTO T5_Grades FROM T5_Marks
```

OUTPUT:

- School_DB
  - ⊞ Database Diagrams
  - ⊟ Tables
    - ⊞ System Tables
    - ⊞ FileTables
    - ⊞ External Tables
    - ⊞ Graph Tables
    - ⊟ dbo.T5_Grades
      - ⊟ Columns
        - StudentID (varchar(20), not null)
        - CourseID (varchar(20), not null)
        - CourseMarks (varchar(50), not null)
      - ⊞ Keys
      - ⊞ Constraints
      - ⊞ Triggers
      - ⊞ Indexes
      - ⊞ Statistics
    - ⊟ dbo.T5_Marks
      - ⊟ Columns
        - StudentID (PK, FK, varchar(20), not null)
        - CourseID (FK, varchar(20), not null)
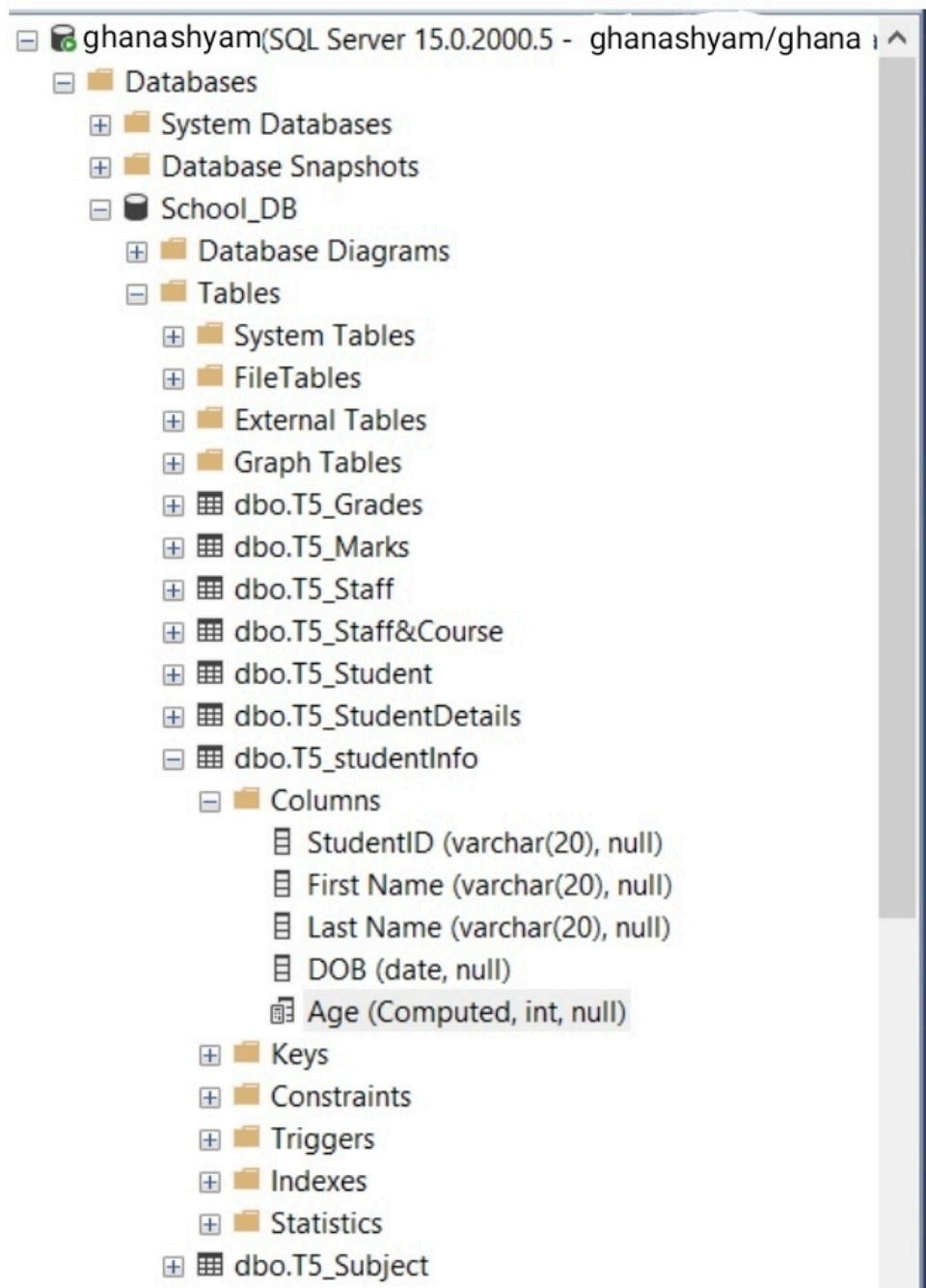   - CourseMarks (varchar(50), not null)

8) Create a table which has derived attribute.

Query:

```
CREATE TABLE T5_studentInfo(
StudentID varchar(20),
[First Name] varchar(20),
[Last Name] varchar(20),
DOB date,
Age AS (DATEDIFF(YEAR, DOB, GETDATE()))
)
```

OUTPUT:

Query to Insert values in the table **T5_studentInfo**:

```
INSERT INTO T5_studentInfo VALUES(86, 'shyam', ' ghana ', 2001-12-20 ')
INSERT INTO T5_studentInfo VALUES(87 , 'thulasiram', 'naik', ' 2002-05-10 ')
SELECT * FROM T5_studentInfo
```

OUTPUT:

	StudentID	First Name	Last Name	DOB	Age
1	86	shyam	ghana	2001-12-20	20
2	87	tulasiram	naik	2002-05-10	19

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