Govt College Akora Khattak Nowshera BSCS - Database Management System

You are working as a database administrator for a college. Your task is to manage the student records in the college database. The database contains a table named students with the following structure:

```
CREATE TABLE students (
ID INT,
Name VARCHAR(30),
FatherName VARCHAR(30),
Phone VARCHAR(11),
Department VARCHAR(20),
Semester VARCHAR(5),
Address TEXT,
GuardianPhone VARCHAR(11)
);
```

The table already contains the following data:

ID	Name	Father Name	Phone	Department	Semester	Address	Guardian Phone
1	Ali	Muhammad Khan	03211234567	Computer Science	IV	Nowshera	NULL
2	Wali	Ayub Khan	03211234874	Computer Science	IV	Nowshera	NULL
3	Faisal	Noor Islam	03212546987	Computer Science	IV	Shaidu	NULL
4	Maaz	Mati Ur Rehamn	03214578213	Computer Science	IV	Swabi	NULL

1. Create a Database:

Write the SQL command to create a database named college.

2. Create a Table:

Write the SQL command to create the students table with the structure provided above.

3. Insert Data:

Insert the following new student record into the students table:

o ID: 5

Name: "Sara"

FatherName: "Ahmed Ali"

Phone: "03217894561"

Department: "Computer Science"

Semester: "IV"

Address: "Peshawar"

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GuardianPhone: "03211234567"

4. Update Data:

Update the Address of the student with ID = 4 to "Mardan".

5. Add a Column:

Add a new column named Email with the data type VARCHAR(50) to the students table.

6. Delete a Record:

Delete the student record with ID = 3.

7. Select Specific Columns:

Write a query to display the ID, Name, and Department of all students.

8. Filter Data:

Write a query to display all students who are in the "Computer Science" department.

9. Use Wildcards:

Write a query to display all students whose Address contains the substring "sha".

10. Combine Conditions:

Write a query to display all students who are in the "Computer Science" department and have a Semester value of "IV".

11. Count Records:

Write a query to count the total number of students in the students table.

12. Sort Data:

Write a query to display all students sorted by their Name in ascending order.

13. Update with Condition:

Write a query to update the GuardianPhone to "03211234567" for all students whose Address is "Nowshera".

14. Select Distinct Values:

Write a query to display all distinct Department values from the students table.

15. Drop a Column:

Write a query to drop the GuardianPhone column from the students table.