Create database and tables

1. **Create a database**
   CREATE DATABASE database_name;

2. **View Databases in the system**
   SHOW DATABASES;

3. **Selecting a Database**
   USE database_name;

4. **Shows the currently selected at any database.**
   SELECT DATABASE();

5. **Delete an existing Database**
   DROP DATABASE Database_Name;

6. **Create a new Table in DB**

   CREATE TABLE table_name (
   field_name1 data_type field_size,
   field_name2 data_type field_size,
   ….
   );

Table: Person **Constraints:** • Person_id – Primary Key • F_name – Not Null • L_name • Nic - Not Null	**Table:** Vehicle **Constraints:** • vehicle_id – Primary Key • brand – Not Null • registered year – Not Null

7. **To create a PRIMARY KEY constraint on the column when the table is already created.**
   ALTER TABLE table_name
   ADD PRIMARY KEY (filed_name);

8. **Remove the primary key from the table.**
   ALTER TABLE table_name
    DROP PRIMARY KEY;

9. **Remove the column in the table.**
   ALTER TABLE table_name
   DROP filed_name;

10. Add column into existing table.
ALTER TABLE table_name
  ADD new_column_name column_definition
   [FIRST | AFTER column_name];

11. Delete a table from the database
DROP TABLE table_name;

Add/update/delete Records

12. Add records
INSERT INTO Table_Name VALUES (… , …. ,….);

13. Update record
UPDATE Table_Name
SET Field_Name New_Attribute_Value
WHERE Field_Name = Searching_Atribute_Value

14. Delete a record
DELETE FROM Table_Name
WHERE Field_Name = Searching_Attribute_Value

Select/view Records

15. Select all the records from the table.
SELECT* FROM Table_name

16. Select specific column records
SELECT column_name FROM table_name
SELECT column_name1, column_name2 FROM table_name

17. Select only the records that fulfill a specified condition.
SELECT column1, column2, ...
FROM table_name
WHERE condition;

18. Selects only the DISTINCT(difference) values from the specific column
SELECT DISTINCT column_name FROM table_name;

19. Sort the result-set in ascending or descending order.
SELECT column1, column2, ...
FROM table_name
ORDER BY column1, column2, ... ASC|DESC;

20. SQL AND, OR and NOT Operators
SELECT column1, column2, ...
FROM table_name
WHERE condition1 AND condition2 AND condition3 ...;

SELECT column1, column2, ...
FROM table_name
WHERE condition1 OR condition2 OR condition3 ...;

SELECT column1, column2, ...
FROM table_name
WHERE NOT condition;