

MySQL

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1- Basic Commands:

- 'USE database_name'; - Switch to a specific database.
- 'SHOW DATABASES'; - Display all databases.
- 'SHOW TABLES'; - List all tables in the current database.
- 'SHOW COLUMNS FROM table_name'; - Display columns of table.

2- Data Types:

- 'INT' - Integer values
- 'VARCHAR(size)' - Variable-length character storage
- 'DATE' - Date values
- 'FLOAT' - Floating-point numbers

3- Creating and Dropping:

- 'CREATE DATABASE database_name'; - Create a new database
- 'CREATE TABLE table_name (column1 datatype, column2 datatype);' - Create a new table
- 'DROP DATABASE database_name'; - Delete a database
- 'DROP TABLE table_name'; - Delete a table

4- Inserting Data:

- 'INSERT INTO table_name (column1, column2, ...) VALUES (value1, value2, ...);' - Insert data into a table.

5- Querying Data:

- 'SELECT column1, column2, ... FROM table_name;' - Retrive data from a table.
- 'SELECT * FROM table_name;' - Retrive all columns from table.
- 'SELECT * FROM table_name WHERE condition;' - Retrive data based on a condition.

6- Updating and Deleting:

- 'UPDATE table_name SET column1 = value1, column2 = value2 WHERE condition;'; - Update existing records.
- 'DELETE FROM table_name WHERE condition;'; - Delete records from a table.

7- Constraints:

- 'PRIMARY KEY': Uniquely identifies each record in a table.
- 'FOREIGN KEY': Establishes a link b/w data in two tables.

8- JOINS:

- 'INNER JOIN' - Return rows where there is a match in both tables
- 'LEFT JOIN' - Return all rows from the left table and matching rows from the right table.
- 'RIGHT JOIN' - Return all rows from the right table and matching rows from the left table.
- 'FULL JOIN' - Return all rows when there is a match in either table.

9- Aggregates:

- 'COUNT': Count the number of rows.
- 'SUM': Calculate the sum of values.
- 'AVG': Calculate the average of values.
- 'MIN/MAX': Find the minimum/maximum value.