MySQL Cheat Sheet:-

1) Basics:-

- CREATE DATABASE database_name;
  - Create a new database.
- USE database_name;
  - Select a database to work with
- SHOW DATABASES;
  - Show all available databases.
- DROP DATABASE database_name;
  - Delete a database

2) Tables:-

- CREATE TABLE table_name (column1 datatype, column2 datatype, ...);
  - Create a new table
- SHOW TABLES;
  - Show all tables in the current database.
- DESCRIBE table_name;
  - Show structure of a table.
- ALTER TABLE table_name ADD column_name datatype;
  Add a new column to an existing table
- DROP TABLE table_name;
  Delete a table.

3) Queries:-

- SELECT column1, column2,... FROM table_name;
  Retrieve data from a table.
- INSERT INTO table_name (column1, column2, ...) VALUES (value1, value2, ...);
  Insert new data into the table

- UPDATE table-name SET column1=value1, column2=value2, ... where condition;
  - Update existing data.
- DELETE from table-name WHERE condition;
  - Delete data from a table.

4) Filtering:-

- WHERE condition; - Filter results based on specified criteria
- AND, OR, NOT- Logical operators for combining conditions
- IN (value1, value2, ...) - Match any value in a list
- BETWEEN value1 & value2 - Match a range of values

5) Sorting & Limiting:-

- ORDER BY column-name [ASC/DESC];
  - Sort results in ascending or descending order
- LIMIT number;
  - Limit the number of rows returned.

6) Aggregation:-

- COUNT(), SUM(), AVG(), MIN(), MAX() :-
  - Aggregate functions for counting, summing, averaging, finding minimum & maximum values

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7) JOINS:-

- INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL JOIN
  - Different types of joins to combine data from multiple tables based on a related column

8) CONSTRAINTS :-

- PRIMARY KEY, UNIQUE, NOT NULL, DEFAULT
  - Constraints to enforce data integrity & uniqueness.

9) INDEXES:-

- CREATE INDEX index-name ON table-name (colunn-name);
  - Create an index to improve query performance.
- DROP INDEX index-name ON table-name;
  - Remove an index.

10) Functions:-

- DATE-FORMAT(), NOW(), CURDATE(), CURTIME()
  - Functions for working with dates 4 times.
- CONCAT(), SUBSTRING(), UPPER(), LOWER()
  - String manipulation function