MODULE US

BACKEND DEVELOPMENT WITH Nodejs AND Dalabase

ASSIGNMENT 02

MySQL Cheat Sheet

- ◆ Introduction to MySQL Mysql is a powerful and widely-used relational database Management system (RDBMS) decigned for efficient data Storage and management. This cheat sheet provides a concise overview of essential MySQL concepts, including database creation, table management, CRUD operations, filtering, and souting. It serves as a quick reference for both beginners and experienced users.
- Key Concepts
- 1. Creating and Managing Databases
 - · Cuente Database:

sql

CREATE DATABASE database_name; Creates a new database with the specified name.

Use Database:

Sal

USE database_name;

Selects the specified doctabase for subsequent operations.

Show Databases:

Sql

SHOW DATABASES;

Lists all databases available in the MySQL server.

Duop Database:

Sq/L

DROP DATABASE dolabale_name;

Deletes the specified database and all its contents.

2. Creating and Managing Tools Cueate Table: CREATE TABLE table-name column! datatype, column2 datatype, Defines a new table with specified columns and data types. Show Tables: Sal SHOW TABLES; Displays all tables within the currently selected database. Describe Table Structures: eal DESCRIBE table_name; Purovides details about the columns, data types, and constraints of a specified table. · Durop Table: DROP TABLE table-name; Removes the Specified table from the database. 3. CRUD Operations Coneate (Insent Data): INSERT INTO table-name (column), column2) VALUES (value), value2); Insents new necords into a specified table. Read (Select Data): Sql SELECT * FROM table-name; -- Select all columns SELECT column), column2 from table-name WHERE condition; --Conditional Selection Retuieves clata forom one or more tables based on specified conditions.

· Updale Data:

UPDATE table-name SET columnia new-value WHERE condition;

Modifies existing execute in a specified table based on conditions.

· Delete Data

DELETE FROM table-name WHERE condition;

Removes verands from a specified table that meet untain conditions

4. Filtering and Souting Data

Filtering Results:

SELECT * From table.name WHERE column= value;

Retrieves records that match specific conitonia.

Souting Results:

SELECT * FROM table_name ORDER BY column ASC; -- Ascending ander SELECT * FROM table-name ORDER BY Column DESC; -- Descending oxider

Order the sutrieved newards based on specified columns in either accending or descending order.

Conclusion

This cheat sheet encapsulates the fundamental concepts of Mysql, broviding a quick reference for creating and managing databases, tables, performing CRUD operations, and filtering and sorting data. Mastery of these concepts is essential for effective database management and is invaluable for software duelopment and data analysis roles. By applying these punciples in breatice, useus can enhance their skills in managing helational databases efficiently.