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ASSIGNMENT-3.2

MySQL Cheatsheet

★ Intro to MySQL :-

- ⇒ MySQL: A popular open-source relational database management system (RDBMS).
- ⇒ Known for its reliability, scalability, and ease of use.
- ⇒ Supports SQL for database Management.

★ BASIC SQL Commands :-

- ⇒ CREATE DATABASE: Creates a new database.
- ⇒ CREATE TABLE: Defines a new table.
- ⇒ SELECT: Retrieves data from a database.
- ⇒ INSERT INTO :- Adds new record into a table.
- ⇒ UPDATE :- Modifies existing records in a table.
- ⇒ DELETE FROM :- Removes records from a table.

★ DATA TYPES :-

- ⇒ INT :- Integer values.
- ⇒ VARCHAR :- Variable-length character strings.
- ⇒ DATE :- Date values in YYYY-MM-DD format.
- ⇒ FLOAT :- Floating point numbers.
- ⇒ BOOLEAN :- Boolean (true/false) values.

★ Querying Data :-

- ⇒ SELECT * FROM table-name :
Retrieves all records from a table.



⇒ SELECT col1, col2 FROM table-name
WHERE condition :-

↳ Retrieves specific columns based on a condition.

⇒ ORDER BY col-name ASC/DESC :-

↳ Sorts the result set in ascending or descending order.

⇒ LIMIT n :-

↳ Limits the number of rows returned in the result set.

★ AGGREGATION Functions :-

⇒ COUNT () :- counts no. of rows in result set.

⇒ SUM () :- Calculates the sum of values in a column.

⇒ AVG () :- Calculates average of values in column.

⇒ MIN () :- Retrieves minimum value in column

⇒ MAX () :- Retrieves maximum value in column

★ TRANSACTIONS :-

⇒ Ensures data integrity & consistency.

⇒ Begin with 'START TRANSACTION' followed by 'COMMIT' to save changes or 'ROLLBACK' to undo changes.

★ Security :-

⇒ Secure MySQL installation by setting passwords for root and other users.

⇒ Grant appropriate privileges to users based on their roles and responsibilities.