

SQL Queries

Q1 SQL

Q2 Flowchart ✓

Q3 Networks ✓

Q4 Prompting ✓

MySQL : (RDBMS) → relational database management system.

- opensource and free

SELECT

- * `SELECT * FROM table_name ;` // selects every column from table
- * `SELECT column_name_1, column_name_2, ... FROM table_name ;`
// selects only specified columns.
- * `SELECT * FROM table_name WHERE condition statement ;`
// select only specified / all columns which fulfill a specific condition.
- * `SELECT MIN(column_name) FROM table_name WHERE condition ;` // smallest value of selected column only.
- * `SELECT MAX(...)` // largest value " "
- * `SELECT COUNT(column_name) FROM table_name WHERE condition ;` // number of rows of a column without NULL values in the selection.
- * `SELECT AVG(column_name) ...` // returns average " "
- * `SELECT SUM(column_name)` // returns sum " "

* `SELECT column-name1 AS First_name,`

// returns the selected columns with condition with aliases for column names.

* `SELECT Count(1column-name) AS First_count`

// returns the count^{of rows} of selected columns, under the alias heading. First_count

* `SELECT _____ FROM table-name`

`ORDER BY column1 ASC/DESC,`

↓
either one or
none for asc

// if adding a condition add the condition before order by.

INSERT INTO

* `INSERT INTO table-name (col-1, col-2,)`

`VALUES (value_1, value_2,)`

→ adds new row if a column value was not told NULL will be placed.

UPDATE

* `UPDATE table-name`

`SET col-name1 = _____, col-name2 = _____,`

`WHERE condition;`

DELETE

- `DELETE FROM table_name WHERE condition ;`

LIMIT

- `SELECT — FROM table_name
LIMIT X ;`

// returns only X records from the selection.

- `SELECT — FROM table_name
LIMIT 3 OFFSET 4 ;`

// starts the limit from the 5th record (4 offsets) of the selection to choose only 3. Hence from the selection it will give row 5, 6, 7 only.

Conditional statements

- AND , OR , NOT , IN , BETWEEN .

↓
LOGIC GATES
BASIC .

↓
→ column IN (value 1, ...) column BETWEEN
↓
specifies multiple values in column. value 1 AND value 2
↳ AND

→ column NOT IN (value 1, ...)
↓
excludes specific values in column