# **DBMS**

SQL QUERIES

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### **OUTLINE**

- 1. CHANGE BY USING ALTER
- 2. Day data\_type
- 3. View in db
- 4. It's Types
- 5. How to use joins?
- 6. MySQL implementation

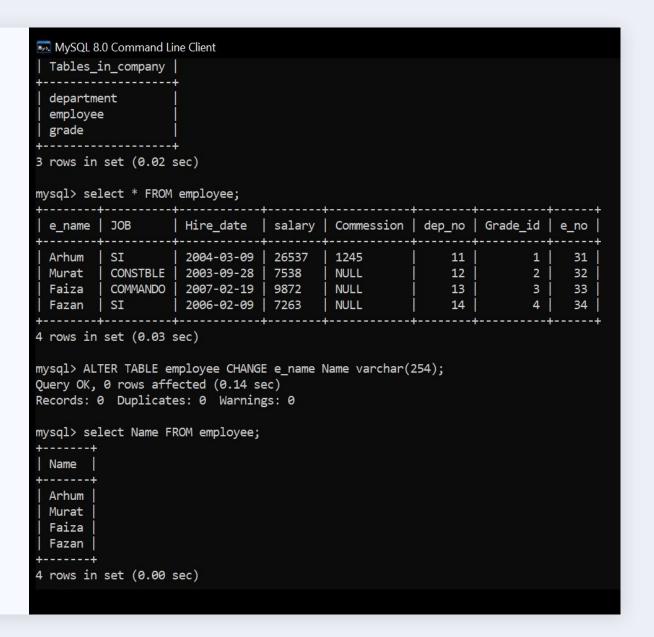
## **ASSIGNMENT**

Essentially, it touches upon data definition (altering tables, views) and data manipulation (joins), along with basic user access control in MySQL.

# CHANGING AN ATTRIBUTE (COLUMN):

#### **Explanation:**

To modify the definition of an existing column in a MySQL table, you use the **ALTER** TABLE statement. You can change its data type, constraints (like NOT NULL), and default value. There are two main clauses: MODIFY COLUMN (to change data type and constraints without renaming) and CHANGE COLUMN (to change the name, data type, and constraints).



# ENTERING A DATATYPE OF "DAY":

#### **Explanation:**

MySQL doesn't have a direct "day" datatype as a standalone unit. You typically represent a day within a date using the DATE datatype or as a text string using VARCHAR. You could also use ENUM or SET for a predefined list of days.



COMPLEX **MATERIALIZED SIMPLE** Based on multiple Based on a single table tables (joins) without aggregate aggregate functions, functions or complex **GROUP BY** clauses

#### mysql> CREATE OR REPLACE VIEW employee\_overview AS -> SELECT JOB ,Hire\_date,salary,Commession,dep\_no, Grade\_id,e\_no FROM employee; Query OK, 0 rows affected (0.01 sec) mysql> select \* from employee overview Hire date | salary | Commession | dep no | Grade id | e no | SI 2004-03-09 26537 1245 CONSTBLE 2003-09-28 7538 NULL 33 2007-02-19 COMMANDO 9872 NULL 2006-02-09 NULL 4 rows in set (0.01 sec) mysql> CREATE USER 'arhum'@'localhost' IDENTIFIED BY '12345678'; Query OK, 0 rows affected (0.03 sec)

### **View Command:**

Explanation: You create a view using the CREATE VIEW statement followed by the view name and the SELECT query that defines the view.

Query on MySQL:

**CREATE VIEW view\_name AS** 

SELECT column1, column2, ...

FROM table\_name

WHERE condition:

## How can we provide write access to users on SQL? Explanation:

You grant privileges to MySQL users using the GRANT statement. Write access typically involves INSERT, UPDATE, and DELETE privileges.

## OTHER GRANT:

GRANT **INSERT**, **UPDATE**, **DELETE** ON database\_name.table\_name TO 'username'@'host';

**FLUSH PRIVILEGES**;

## HOW CAN WE APPLY JOINS?

#### **Explanation:**

Joins are used to combine rows from two or more tables based on a related column. Different types of joins return different sets of rows.

JOINS are the crossproduct plus some conditions.

SELECT table1.column1, table2.column2
FROM table1
INNER JOIN table2 ON
table1.common\_column =
table2.common\_column;

### **JOINS:**

**INNER RIGHT** SELECT table 1. column 1, SELECT table 1. column 1, SELECT table 1. column 1, table2.column2 table2.column2 FROM table1 table2.column2 FROM table1 FROM table 1 INNER JOIN table 2 ON LEFT JOIN table 2 ON RIGHT JOIN table 2 ON table1.common\_column = table1.common\_column = table1.common\_column = table2.common\_column table2.common\_column; table2.common\_column;