

SQL LAB-6

AND Operator

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QUESTIONS

Lab 1:

Database Schema

Already we have created an Employee table in day 2 lab, let's utilize this.

Task: Add two more columns in the Employee table named Salary and department and add data into it. Now Imagine you work for a company with various departments, and there is a need to analyze employee salaries within the IT department. Write a query to retrieve all employees from the "employee" table who have a salary greater than 50000 and are in the 'IT' department

Hint: Use AND operator to retrieve details.

```
mysql> -- Truncate the table to remove existing data (optional)
mysql> TRUNCATE TABLE Employee;
Query OK, 0 rows affected (0.05 sec)
```

-- Add two more columns in the Employee table named Salary and department and add data into it.

```
mysql> -- Inserting records into the Employee table with unique emp_id values and job titles
mysql> INSERT INTO Employee (emp_id, first_name, last_name, age, email, salary, department, job_title)
-> VALUES
-> (1, 'John', 'Doe', 30, 'john.doe@example.com', 60000.00, 'IT', 'Software Engineer'), -- Employee in IT department with salary greater than 50,000
-> (2, 'Jane', 'Smith', 28, 'jane.smith@example.com', 55000.00, 'Marketing', 'Marketing Specialist'), -- Employee in Marketing department
-> (3, 'Alice', 'Johnson', 35, 'alice.johnson@example.com', 70000.00, 'IT', 'Project Manager'), -- Another employee in IT department with high salary
-> (4, 'Bob', 'Brown', 40, 'bob.brown@example.com', 45000.00, 'HR', 'HR Manager'), -- Employee in HR department with salary less than 50,000
-> (5, 'Charlie', 'Davis', 32, 'charlie.davis@example.com', 52000.00, 'IT', 'System Analyst'); -- Another employee in IT department with salary just over 50,000
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

--Displaying the Employee table

```
mysql> select *from Employee;
+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_id | first_name | last_name | age | email | job_title | salary | department |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | John | Doe | 30 | john.doe@example.com | Software Engineer | 60000 | IT |
| 2 | Jane | Smith | 28 | jane.smith@example.com | Marketing Specialist | 55000 | Marketing |
| 3 | Alice | Johnson | 35 | alice.johnson@example.com | Project Manager | 70000 | IT |
| 4 | Bob | Brown | 40 | bob.brown@example.com | HR Manager | 45000 | HR |
| 5 | Charlie | Davis | 32 | charlie.davis@example.com | System Analyst | 52000 | IT |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Output:-

```
mysql> -- Retrieving all employees from the Employee table who have a salary greater than 50,000 and are in the 'IT' department
mysql> Select * From Employee Where salary > 50000 AND department = 'IT';
```

emp_id	first_name	last_name	age	email	job_title	salary	department
1	John	Doe	30	john.doe@example.com	Software Engineer	60000	IT
3	Alice	Johnson	35	alice.johnson@example.com	Project Manager	70000	IT
5	Charlie	Davis	32	charlie.davis@example.com	System Analyst	52000	IT

```
3 rows in set (0.00 sec)
```