# SQLMODULE LAB-6

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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.

### Submission:

Create an SQL script file containing your solutions for the task. Name the file

"lab\_assignment1.sql" Provide comments above the query to indicate the query's

purpose.

Lab 2:

Database Schema

Use our database Ecommerce to complete the task.

Task: Imagine you are managing an e-commerce platform, and the holiday season is

approaching. To capitalize on the festive spirit and boost sales, you decide to organize a

special seasonal sale featuring electronics. The goal is to offer discounts on electronics

and include products with a price less than rs. 70,000 in the promotion. Write a query to

find products from the "product" table that are either in the 'Electronics' category or

have a price less than 70000.

Hint: Use Or operator to retrieve product details.

**Submission:** 

Create an SQL script file containing your solutions for the task. Name the file

"lab\_assignment2.sql" Provide comments above the query to indicate the query's

purpose.

Lab 3.

Task: Imagine you are an HR analyst responsible for conducting a comprehensive

analysis of average salaries across different departments within a company. The goal is

to understand and compare the average salaries of employees in various

departments. Write a query to Calculate the average salary of employee in each

department from the "employee" table.

Hint: Use AVG() function and GROUP BY clause to create the query.

**Submission:** 

Create an SQL script file containing your solutions for the task. Name the file

"lab\_assignment3.sql" Provide comments above the query to indicate the query's

purpose.

ChatGPT Exercise

Using ChatGPT generates SQL queries of the below problem.

Scenario 1: Determine the average age of employees in each department from the

"employees" table.

We have an "Employee" table with the following columns: employee\_id,

employee\_name, department, and salary and you want to find the average salary for

each department. Generate the chatGPT prompt for the above scenario.

### Lab 1:

Database Schema

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Hint: Use AND operator to retrieve details.

## **Submission:**

Already we are having salary and department columns in the employee table.

mysql> desc emp	oloyee; 	+	+	·	++
Field	Туре	Null	Key	Default	Extra
employee_id first_name last_name department salary hire_date	int   varchar(50)   varchar(50)   varchar(50)   decimal(10,2)   date	NO   NO   NO   NO   NO   NO	PRI	NULL NULL NULL NULL NULL	
6 rows in set (	(0.01 sec)	+	<del></del>		+

mysql> select * -> where sa	from employe		:='it';		
employee_id	first_name	last_name	department	salary	hire_date
5	Harsha	madireddy	it	60000.00	2024-03-01
1 row in set (0	0.00 sec)	,			·

Lab 2:

Database Schema

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purpose.

aleID	ProductID	DiscountPercentage	StartDate	EndDate	product_type	product_price
1	1	10.00	 2024-05-20	 2024-05-30	electronics	   80000
2	2	6.00	2024-05-20	2024-05-30	home decor	2000
3	3	8.00	2024-05-20	2024-05-30	electonics	50000
4	4	10.00	2024-05-20	2024-05-30	beauty	10000
5	5	15.00	2024-05-20	2024-05-30	electronics	90000

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