SQL MODULE

LAB – 5

BY

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Questions

Lab 1-

Database Schema:

Use the same database scheme created in Previous Lab.

Task: Let's consider a scenario where you want to retrieve information about students

from a database table named student and display the results in ascending order based

on their last names.

Hint: Use orderBy clause in a ascending Order

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 the same database scheme created in Previous Lab.

Task: Let's consider a scenario where you want to count the number of students based

on their gender from a database table named Student.

Hint: use GroupBy clause and Count() function

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.

ChatGPT Exercise

Using ChatGPT generates SQL queries of the below problem .

Scenario 1:

Library Books Given a table called books with columns book_id, title, and author_id, write a query to count the number of books written by each author, ordering the results by the author's name without using a join clause.

Solutions:

Lab 1-

Database Schema:

Use the same database scheme created in Previous Lab.

Task: Let's consider a scenario where you want to retrieve information about students

from a database table named student and display the results in ascending order based

on their last names.

```
mysql> use studentmanagementsystem;
Database changed
mysql> select lastname from student
    -> order by lastname;
+-------------+
| lastname    |
+-------------+
| Lakhude     |
| Pothireddy  |
| Shaik       |
| Smith       |
| Yarrampally |
+-------------+
5 rows in set (0.01 sec)
```

Lab 2-

Database Schema:

Use the same database scheme created in Previous Lab.

Task: Let's consider a scenario where you want to count the number of students based

on their gender from a database table named Student.

```
mysql> select gender,count(*) from student
    -> group by gender;
+--------+----------+
| gender | count(*) |
+--------+----------+
| Male   |        2 |
| Female |        3 |
+--------+----------+
2 rows in set (0.01 sec)

mysql> select * from student;
+-----------+---------------------+-------------+-------------+--------+--------------------------+------------+
| StudentID | FirstName           | LastName    | DateOfBirth | Gender | Email                    | phone      |
+-----------+---------------------+-------------+-------------+--------+--------------------------+------------+
|         1 | Mohammed Sharfuddin | Shaik       | 2002-02-02  | Male   | sharfoddin28@gmail.com   | 6303729550 |
|         2 | Gautham             | Lakhude     | 2003-03-26  | Male   | lakhundegautham@gmail.com | 9381631295 |
|         3 | Susmitha            | Pothireddy  | 2002-10-26  | Female | susmil123@gmail.com      | 9472549645 |
|         4 | Sirisha             | Yarrampally | 2001-05-12  | Female | Siril123@gmail.com       | 9276539234 |
|         5 | Jane                | Smith       | 2002-07-18  | Female | jane_Smith@example.com   | 9652900626 |
+-----------+---------------------+-------------+-------------+--------+--------------------------+------------+
```

ChatGPT Exercise

Using ChatGPT generates SQL queries of the below problem .

Scenario 1:

Library Books Given a table called books with columns book_id, title, and author_id, write a query to count the number of books written by each author, ordering the results by the author's name without using a join clause.

-- Query to count the number of books written by each author, ordered by the author's ID.

SELECT author_id, COUNT(*) AS book_count

FROM books

```
GROUP BY author_id
ORDER BY author_id;
```