

**Information System Management Lab
BCOM 307**

Assignment #23

Submitted by:

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Assignment No. 23

Unit No:

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Issue Date

Subject Title: Information System Management Lab

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Instructions for Students:

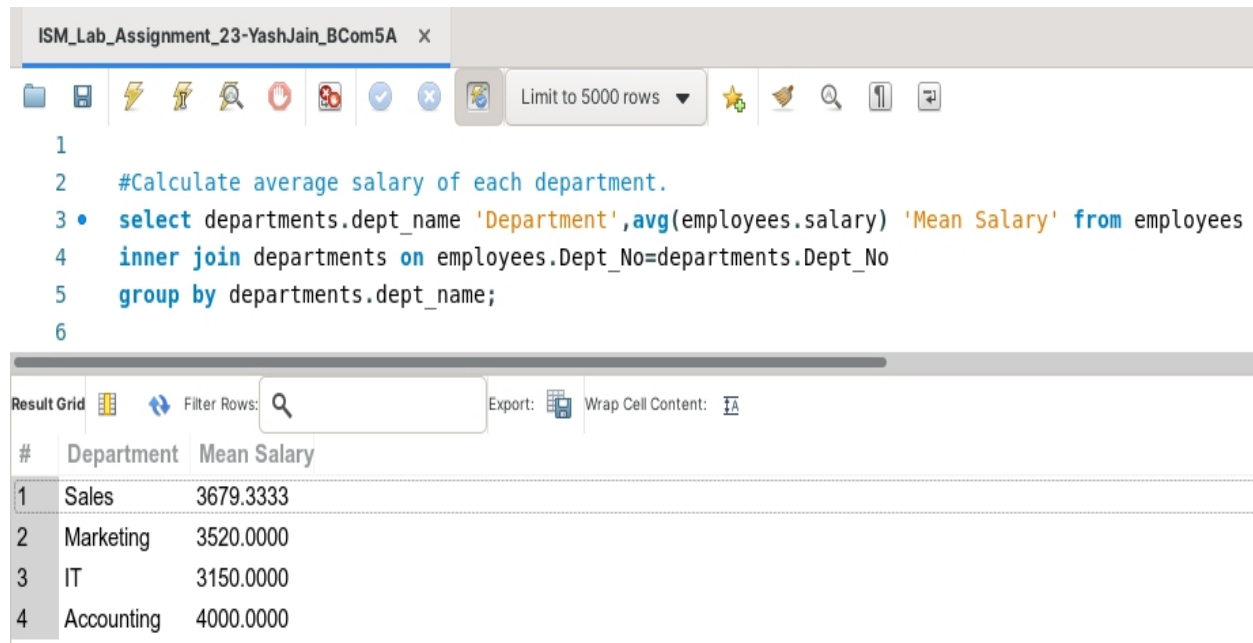
1. **All Questions are Compulsory.**
2. The student should attach proper cover page for each assignment clearly mentioning the Assignment No.
3. Each assignment should be prepared by the student individually with proper explanation and screenshots.
4. A4 size ruled sheets should be used for the assignment.
5. Assignment pages should be serially numbered at the bottom of page.

During online education mode, upload scanned copy of the complete assignment including cover page latest by due date.

Question No.	Question	CO No.
1	Calculate average salary of each department.	CO2, CO3, CO4, CO5
2	Find out the department id where the number of employees is more than 2.	
3	Display the distinct location from employee table in descending order.	
4	Update the salary of all employees whose location is Delhi by 20%.	
5	Display the employee name whose commission is more than the average commission.	

ASSIGNMENT 23 - SQL INNER JOIN CLAUSE II**Task 1 : Calculate average salary of each department.**

This task can be completed using the **SQL INNER JOIN Clause** used with the **GROUP BY** Clause.



The screenshot shows a SQL IDE window titled "ISM_Lab_Assignment_23-YashJain_BCom5A". The query editor contains the following SQL code:

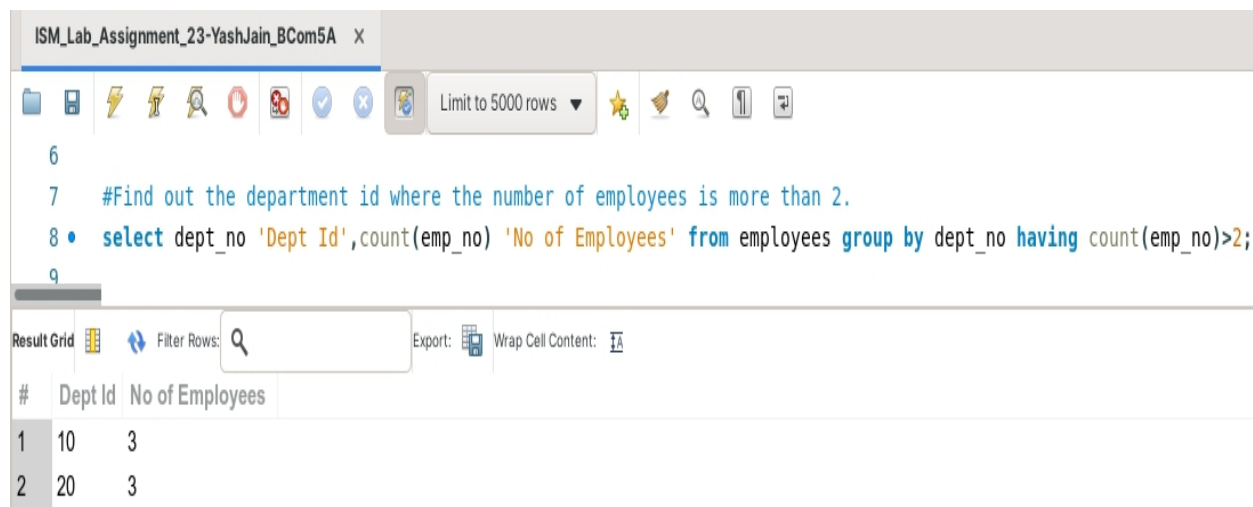
```
1
2 #Calculate average salary of each department.
3 • select departments.dept_name 'Department',avg(employees.salary) 'Mean Salary' from employees
4 inner join departments on employees.Dept_No=departments.Dept_No
5 group by departments.dept_name;
6
```

Below the query editor is the "Result Grid" showing the output of the query:

#	Department	Mean Salary
1	Sales	3679.3333
2	Marketing	3520.0000
3	IT	3150.0000
4	Accounting	4000.0000

Task 2: Find out the department id where the number of employees is more than 2.

This task can be completed using the **COUNT()** Aggregate function, **GROUP BY** and **HAVING** clause.



The screenshot shows the same SQL IDE window. The query editor contains the following SQL code:

```
6
7 #Find out the department id where the number of employees is more than 2.
8 • select dept_no 'Dept Id',count(emp_no) 'No of Employees' from employees group by dept_no having count(emp_no)>2;
9
```

Below the query editor is the "Result Grid" showing the output of the query:

#	Dept Id	No of Employees
1	10	3
2	20	3

Task 3: Display the distinct location from employee table in descending order.

This task can be completed using the **DISTINCT** and the **ORDER BY** clause.

ISM_Lab_Assignment_23-YashJain_BCom5A x

Limit to 5000 rows

```
9
10 #Display the distinct location from employee table in descending order.
11 • select distinct location from employees order by location desc;
12
13
```

Result Grid

#	location
1	Kolkata
2	Gurugram
3	Delhi
4	Chennai
5	Bangalore

Task 4: Update the salary of all employees whose location is Delhi by 20%.

This task can be completed using the **UPDATE** Command and the **SET** Keyword.

ISM_Lab_Assignment_23-YashJain_BCom5A x

Limit to 5000 rows

```
12
13 #Update the salary of all employees whose location is Chennai by 20%.
14 • update employees set salary=salary*1.02 where location='Chennai';
15 • select * from employees where location='Chennai';
16
```

Result Grid

#	Emp_No	Emp_Name	Designation	Hire_Date	salary	commission	Dept_No	location
1	1600	Azim Premji	Analyst	1993-08-22	2448	240	10	Chennai
2	2000	Elon Musk	President	1961-06-08	3060	300	20	Chennai
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Task 5: Display the employee name whose commission is more than the average commission.

This task can be completed using the **AVG()** Aggregate Function in the **SQL Sub-Query** along with the **SELECT** statement.

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