Information System Management Lab
BCOM 307

Assignment #20

Submitted by:

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Assignment No. 20
Unit No:

Course/Subject Code: BCOM 307   **Subject Title: Information System Management Lab**
Issue Date   **Last Date of Submission:**

Instructions for Students:

1. **All Questions are Compulsory.**
2. The student should attach proper cover page for each assignment clearly mentioning theAssignment No.
3. Each assignment should be prepared by the student individually with proper explaination andscreenshots.
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.

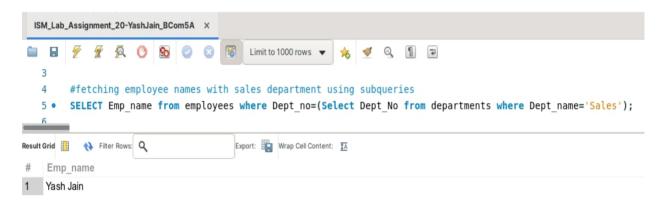| Question No.	Question	CO No.
1	Display the names of the employees who belong to Sales department.	**CO2, CO3, CO4, CO5**
2	Find out the average salary of Sales department.	
3	Display employee name with designation from marketing department.	
4	Display average salary from each designation.	
5	Display average salary and average commission of IT Department.	

ASSIGNMENT 20 - SQL SUB-QUERIES

Task 1 : Display the names of the employees who belong to Sales department.

This task can be completed using the **SQL Sub-queries** used with the **SELECT** statement. A Sub-query can be used in the FROM Clause of the SELECT statement. A Sub-query in the FROM Clause defines a data source from that particular SELECT statement. The syntax for this is -
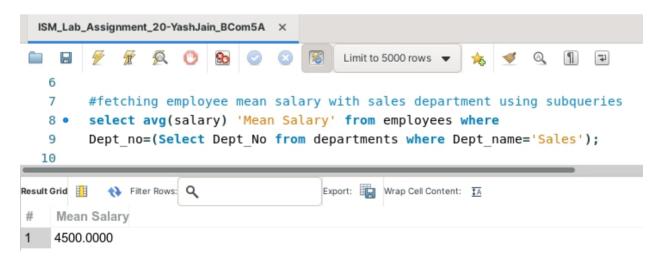
```
SELECT column1,column2,....columnN from <table> where
columnname=(sub-query);
```

The sub-query would be a query in itself, but used as a part of the WHERE Clause of the SELECT statement. Hence, it coins the term 'Sub-Query'.

Task 2: Find out the average salary of Sales department.

This task can be completed using the **AVG( ) Aggregate function** and **WHERE** clause in the **Sub-Query.**
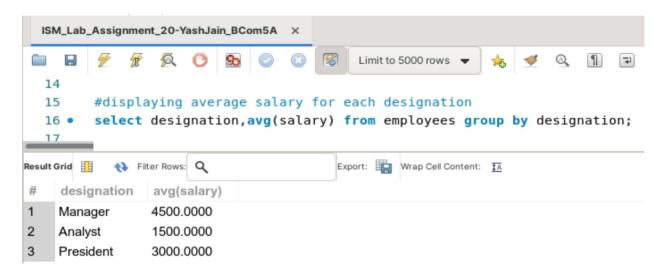

Task 3: Display employee name with designation from marketing department.

This task can be completed using the **WHERE** clause in the **Sub-Query.**

```
   10
   11    #fetching employee name and designation from marketing department
   12 •  select emp_name,designation from employees where
   13    Dept_No=(select dept_no from departments where Dept_Name='Marketing');
   14
```

#	emp_name	designation
1	Elon Musk	President

Task 4: Display average salary from each designation.

This task can be completed using the **AVG( )** aggregate function, along with the **GROUP BY** clause.


```
   14
   15    #displaying average salary for each designation
   16 •  select designation,avg(salary) from employees group by designation;
   17
```

#	designation	avg(salary)
1	Manager	4500.0000
2	Analyst	1500.0000
3	President	3000.0000

Task 5: Display average salary and average commission of IT Department.

This task can be completed using the **AVG( )** aggregate function, and **Sub-Query.**


```
   17
   18    #displaying average salary and commission for IT department
   19 •  select avg(salary),avg(commission) from employees where
   20    Dept_No=(select dept_no from departments where Dept_Name='IT');
   21
```

#	avg(salary)	avg(commission)
1	1500.0000	150.0000