

# Database Systems

Fall 2020

LAB – 05

**The objective of this lab is to:**

- SQL Joins
- Previous Content (Group by, Order by, Column Alias, Table Alias)

**Course & Lab Instructor:** Sir Asif Sohail

Instructions:

- Work on this lab individually. Discussion is not allowed.
- Evaluation of tasks will be conducted in lab.
- Anyone caught being indulged in the act of plagiarism would be awarded an **"F"** grade in this lab.
- Evaluation will be considered final and you cannot debate for the marks. So, focus on performing the tasks when the time is given to you.
- **Allowed time: 1 hour**
- Best of Luck!

**Note:** You will be using following tables in your lab tasks.

- EMP (EMPNO, ENAME, JOB, SAL, HIREDATE, COMM, MGR, DEPTNO)
- DEPT (DEPTNO, DNAME, LOC)
- SALGRADE (Grade, HISAL, LOSAL)
- PUCIT (STD\_NAME)

 **Perform the following tasks**

## **Task 01:**

**[20 Marks]**

1. Show those departments that have no any employee.

**Query:**

**Screenshot:**

2. List all employees whose location is 'CHICAGO'

**Query:**

**Screenshot:**

3. Show the employees of Accounting department.

**Query:**

**Screenshot:**

4. Get the highest salaries of all the departments from dept table. Display the output in the following format.

DNAME	MAX(SAL)
RESEARCH	3000
SALES	2850
ACCOUNTING	5000
OPERATIONS	-

**Query:**

**Screenshot:**

5. Display salary grade of each employee on the basis of salary range from salgrade table.

ENAME	SAL	GRADE
SMITH	800	1
JAMES	950	1

**Query:**

**Screenshot:**

6. Show the output like "Smith is the Clerk of Sales Department with salary 1600 from NewYork."

Emp Details
SMITH is the CLERK of RESEARCH with 800 from DALLAS
ALLEN is the SALESMAN of SALES with 1600 from CHICAGO

**Query:**

**Screenshot:**

7. Display ename, job, deptno, dname from emp and dept table using left outer join.

**Query:**

**Screenshot:**

8. Display department name and department location and grade (on basis of salary) of each employee

**Query:**

**Screenshot:**

9. List the ename, deptno and dept location, job in the asc order of job of those joined after the second half of 1981.

**Query:**

**Screenshot:**

10. Create a query to display the job, the salary for that job based on the department number and the total salary for that job for all the departments.

JOB	dept10	dept20	dept30	Total
CLERK	-	1900	950	2850
SALESMAN	-	-	5600	5600
ANALYST	-	6000	-	6000
MANAGER	2450	2975	2850	8275
PRESIDENT	5000	-	-	5000

**Query:**

**Screenshot:**

\*\*\*\*\*Best of Luck\*\*\*\*\*