**Database Systems Lab**

**(BSCS F18 Morning)**

**Lab 05 version 1**

**Instructions:**

• You must complete all tasks individually. Absolutely **NO** collaboration is allowed.

• Any traces of plagiarism/cheating would result in an “F” grade in this course.

• Late submissions will **NOT** be accepted, in any case.

• Please use the Format of your answers as sample shared to you.

**Submission Procedure:**

• You are also required to submit .docx (Microsoft Word) file.

* Name of your file should be **YourRollNumber\_Lab\_Number**

e.g. BCSF18M00X\_Lab\_2.

• The file should contain the question, the query and the clear screen short of output after running the query.

• You have to submit your lab file to:

* **MCSF19M002@PUCIT.EDU.PK**

• The subject of the email should be **YourRollNumber\_LabVersion#**. e.g. BCSF18M00X\_Version1.

• **Submission Deadline: 22 OCT till 5:00 pm**

1. Show those departments that do not have any employee.
2. Show those employees that do not have any manager.
3. Show the manager of each employee.
4. Show the employees of Sales department.
5. Your query should show like each employee works in every department.
6. Get the total salary of Sales Department.
7. Get the no. of employees of Sales Department.
8. Get the lowest salaries of all the departments from dept table.
9. Get the name of Clark’s manager.
10. Show the output like “ Smith is the Clerk of Sales Department with salary 1600 from NewYork.”

11.Dsiplay ename, job, deptno, dname from emp and dept table using left outer join

12.Dsiplay ename, job, deptno, dname from emp and dept table using rightouter join.

13.Create a query that will display the total number of employees and, the number of employees hired in 1981, 1982, and 1987. Create appropriate column headings.

14.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 |
| 5 | |  |

15. Display all the employees names and hire dates along with their managers name and hire date for all the employees who were hired before their managers.

|  |  |  |  |
| --- | --- | --- | --- |
| **ENAME** | **hiredate** | **MGR name** | **hiredate** |
| ALLEN | 20 FEB, 1981 | BLAKE | 1 MAY, 1981 |
| WARD | 22 FEB, 1981 | BLAKE | 1 MAY, 1981 |
| JONES | 2 APR, 1981 | KING | 17 NOV, 1981 |

16. Write a query to display the department name, location name, number of employees and the average salary for all the employees in that department. Round the salary to two decimal points.

17. Write a query to display the name ,deptno ,sal for those employees who gets more salary than the employee whose empno is 7521.

18. Find the manager of Smith.

19. Find the job which has the highest average salary

20. Find all employees who have the same job as JONES.