**Bahria University, Lahore Campus**

Department of Computer Sciences

Lab Journal 12

**(Fall 2023)**

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| Course: | **Database Management System Lab** |  |
| Course Code: | CSL 220 | Max Marks: 40 |
| Faculty’s Name: |  | Lab Engineer: |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enroll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Joins**

**Task 1**

1. Write a query to retrieve ename, length of enames, loc , deptno and sal by join table EMP with table DEPT where deptno is 30 and sal is greater than 800. Sort the sal in descending order

1. Write a query to combine all rows of table EMP and table DEPT. Sort the columns in ascending order by employee names.
2. Write a query for table EMP and DEPT to retrieve enames , sal, job, deptno, loc where length of job is greater than length of loc.
3. Write a query to join table EMP with itself where mgr exists for any employee.

**Task 2**

1. Create a query that displays ename, deptno, and all enames of those employees who work in the same department as a given employee. Give each column an appropriate Label.
2. Create a query that displays enames, deptno, and hiredates of all employees hired after employee MARTIN.
3. Create a query that displays enames, deptno, and hiredates for all employees who were hired before their managers, along with their manager’s names and hiredates. Give the columns with appropriate labels.

**Task 3**

1. Write a query to display the name, department number, and department name for all employees.
2. Create a unique listing of all jobs that are in department 80. Include the location of the department in the output
3. Write a query to display the name, job, department number, and department name
4. Display the employee name and employee number along with their manager’s name and manager number. Label the columns Employee, Emp#, Manager, and Mgr#, respectively.
5. Display all employees including King, who has no manager.

**Task 4**

1. Create a query to display the name and hire date of any employee hired after employee Davies.
2. Display the names and hire dates for all employees who were hired before their managers, along with their manager’s names and hire dates
3. Show the structure of the JOB\_GRADES table. Create a query that displays the name, job, department name, salary, and grade for all employees.

**Lab Grading Sheet**

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| --- | --- | --- | --- |
| **Task** | **Max Marks** | **Obtained Marks** | **Comments(*if any*)** |
| 1. | 10 |  |  |
| 2. | 10 |  |  |
| 3. | 10 |  |  |
| 4. | 10 |  |  |
| **Total** | **40** |  | **Signature** |

**Note : Attempt all tasks and get them checked by your Lab Instructor**