**Bahria University, Lahore Campus**

Department of Computer Sciences

Lab Journal 04

**(Spring 2023)**

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

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

OBJECTIVE:

The objective of this lab session is to learn these clauses Where Order By and Multiple Order By Like Logical Operators (And, OR) Between, in , not , Is Null

***Create a table Department with following structure***

1. Dept\_id
2. Dept\_Name
3. Location

***Create a table Employee with following structure***

1. Emp\_id
2. Emp\_Name
3. Job
4. Hiring date
5. Salary
6. Manager
7. Comission

**Task 1 15 Minutes**

|  |  |  |
| --- | --- | --- |
| **1** | **List departments which are in Canada?** |  |
| **2** | **List departments which are in Saudi Arabia?** |  |
| **3** | **List all employees, sorted by job** |  |
| **4** | **List the name of Employee who earns more than 2000** |  |

**Task 2 25 Minutes**

|  |  |  |
| --- | --- | --- |
| **1** | **List the name and empno of employees who earn more than 2000.display the result in alphabetical order of the name.** |  |
| **2** | **Provide the empno and employee name whose salary is greater than 10,00** |  |
| **3** | **Which employees get salary less than 20,000 and commission greater than 100.** |  |
| **4** | **Create a report to display the name and job title of all employees who do not have a manager** |  |
| **5** | **Which employees get salary less than 20,000 or commission greater than 100.** |  |

**Task 3 25 Minutes**

|  |  |  |
| --- | --- | --- |
| **1** | **Find the empno, job, and hire date of all employees hired before 1990. (use IN )** |  |
| **2** | **Find the empno, job, and hire date of all employees hired before 1990. (don’t use IN)** |  |
| **3** | **List the numbers of all employees who do not earn commission.** |  |
| **4** | **List the name of employees who joined during 1981.** |  |
| **5** | **List the names and salary of all employees, except for Jones.** |  |

**Task 4 30 minutes**

|  |  |  |
| --- | --- | --- |
| **1** | List the emp names that begin with ‘s’ |  |
| **2** | List the emp names that begin with ‘a’ |  |
| **3** | Display all employee names which have ‘sa’ in them. |  |
| **4** | List the employee names that don’t end with ‘a’. |  |
| **5** | Select the names of the employee whose names is exactly five Characters in length |  |
| **6** | select the names of the employee whose names is exactly 2 Characters in length |  |
| **7** | Write a query to display the first\_name of all employees who have "b"in their name |  |
| **8** | Write a query to display the name of employees having’d’ as the third character. |  |

**Lab Grading Sheet :**

|  |  |  |  |
| --- | --- | --- | --- |
| **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**