**USMAN INSTITUTE OF TECHNOLOGY**

**Department of Computer Science**

**CSC204 Introduction to Database Systems**

Lab#2



**Objective:**

Basic data retrieval operations in SQL\*Plus.

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**Roll No: \_\_\_\_\_\_\_\_22SP-018-SE\_\_\_\_\_\_\_Sec. \_\_\_\_\_\_\_A\_\_\_\_**

**Date of Experiment: \_\_\_\_\_\_\_\_\_\_\_\_18/10/2023\_\_\_\_\_\_\_\_\_\_**



**Marks Obtained/Remarks: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXERCISES**

1-Define the different capabilities of SELECT statement? Give an example of each.

**1)Retrieve All Columns from a Table:** SELECT \* FROM employees;

2**) Retrieve Specific Columns:** SELECT employee\_id, first\_name, last\_name FROM employees;

**3) Filter Rows with WHERE Clause:** SELECT \* FROM employees WHERE department\_id = 10;

**4) Sorting with ORDER BY:** SELECT \* FROM employees ORDER BY hire\_date DESC;

1. Write down SQL queries to perform following functions:-
   1. To display the name and department number of employee with number 7566.

select Ename,dep from EMP where Empno =7566

* 1. To display the name and department number of all employees in departments 10 and 30 in alphabetical order by name.

select Ename,dep from EMP where depno=10 or depno=30 order by ename

* 1. To display the name, department number and hire date of all employees who were hired in *1982*.

select Ename,dep,hiredate from EMP where Year(hiredate) =1982

* 1. To display the name of all employees who have two consecutive Ls in their name and are in department 30 or their manager is 7782

SELECT EName FROM EMP WHERE (EName LIKE '%LS%' OR EName LIKE '%ls%')AND (Depno = 30 OR MGR = 7782);

* 1. To display the name of all clerks of department 10 and 20 hired before 1983.

select Ename from EMP where job='clerk' and (depno=10 or depno=20) and year(hiredate)< 1983

* 1. Display the name and salary for all employees whose salary is not in range of $1500 and $2850.

select Ename,sal from EMP where sal not between 1500 and 2850

* 1. Display the name, salary and commission for all employees whose commission amount in greater than their salary increased by 10%.

SELECT EName, Salary, Comm FROM EMP WHERE Comm > Salary \* 1.1;