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**DATABASE MANAGEMENT SYSTEMS LAB**

**Lab Journal #2**

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**01-134192-030**

**BSCS-4B**

1. List the name, salary of the employees who are clerks.

**Query:**

|  |
| --- |
| SELECT ENAME, SAL FROM EMP  WHERE JOB = ‘CLERK’; |

**Output:**

|  |
| --- |
|  |

1. List the name, job, salary of every employee joined on ‘December 17,1980’,

**Query:**

|  |
| --- |
| SELECT ENAME, JOB, SAL FROM EMP  WHERE HIREDATE = ’17-DEC-1980’; |

**Output:**

|  |
| --- |
|  |

1. List the department name & deptno for departments having deptno.>=20

**Query:**

|  |
| --- |
| SELECT DNAME, DEPTNO  FROM DEPT  WHERE DEPTNO>=20; |

**Output:**

|  |
| --- |
|  |

1. Display employees’ names, salary, and manager values of those employees whose salary is 5000 from EMP table using SELECT statement.

**Query:**

|  |
| --- |
| SELECT ENAME, SAL, MGR  FROM EMP  WHERE SAL = 5000; |

**Output:**

|  |
| --- |
|  |

1. Select dname from DEPT table where location is Islamabad.

**Query:**

|  |
| --- |
| SELECT DNAME  FROM DEPT  WHERE LOC = ‘ISLAMABAD’; |

**Output:**

|  |
| --- |
| NO ROWS SELECTED BECAUSE ISLAMABAD DOESNOT EXIST |

1. List the employees who have salary between 1000&2000.

**Query:**

|  |
| --- |
| SELECT \*  FROM EMP  WHERE SAL  BETWEEN  1000 AND 2000; |

**Output:**

|  |
| --- |
|  |

1. List the name, salary, commission of the employees where commission is greater than their salary.

**Query:**

|  |
| --- |
| SELECT ENAME, SAL, COMM  FROM EMP WHERE COMM > SAL; |

**Output:**

|  |
| --- |
|  |

1. List the employees who have salary between 1000&2000 (using AND Operator)

**Query:**

|  |
| --- |
| SELECT \*  FROM EMP  WHERE SAL > 1000  AND  SAL <=2000; |

**Output:**

|  |
| --- |
|  |

1. List the name, monthly salary and daily salary and hourly salary for employee; assume that there are 22 working days in a month,8 working hours in a day. Display the rows with column names as monthly, daily &hourly sal.

**Query:**

|  |
| --- |
| SELECT ENAME, SAL AS MONTHLYSALARY,SAL/22 AS DAILYSALARY,SAL/(22\*8) AS HOURLYSALARY FROM EMP; |

**Output:**

|  |
| --- |
|  |

1. List the name and empno of managers who earn more than 2000.display the result in alphabetical order of the name.

**Query:**

|  |
| --- |
| SELECT ENAME, EMPNO  FROM EMP  WHERE JOB = ‘MANAGER’  AND  SAL>’2000’  ORDER BY ENAME ASC; |

**Output:**

|  |
| --- |
|  |

1. Display all employee names which have ‘TH’or ‘LL’ in them.

**Query:**

|  |
| --- |
| SELECT ENAME  FROM EMP  WHERE  ENAME LIKE '%TH%'  OR  ENAME LIKE '%LL%'; |

**Output:**

|  |
| --- |
|  |

1. List the details of the employees in the depts of 10 & 20 in the order of empno.

**Query:**

|  |
| --- |
| SELECT \*  FROM EMP  WHERE  DEPTNO IN ('10','20')  ORDER BY EMPNO ASC; |

**Output:**

|  |
| --- |
|  |

1. Display the information about the managers and clerks from the column ‘Job’ in the table emp, order the result by deptno.

**Query:**

|  |
| --- |
| SELECT \*  FROM EMP  WHERE JOB='MANAGER'  OR  JOB = 'CLERK'  ORDER BY  DEPTNO ASC; |

**Output:**

|  |
| --- |
|  |

1. List the empnames that do not end with ‘s’.

**Query:**

|  |
| --- |
| SELECT ENAME  FROM EMP  WHERE ENAME  NOT LIKE '%S'; |

**Output:**

|  |
| --- |
|  |

1. List the emp names that begin with ‘c’.

**Query:**

|  |
| --- |
| SELECT ENAME  FROM EMP  WHERE ENAME  LIKE 'C%'; |

**Output:**

|  |
| --- |
|  |

1. List the names of the employees starts with T/t and ends with R/r.

**Query:**

|  |
| --- |
| SELECT \*  FROM EMP  WHERE ENAME  LIKE  'T%R'  OR ENAME  LIKE 'T%r'  OR ENAME  LIKE 't%R'  OR ENAME  LIKE 't%r'; |

**Output:**

|  |
| --- |
|  |

1. List the name of employees who joined during 1981.

**Query:**

|  |
| --- |
| SELECT \*  FROM EMP  WHERE  HIREDATE  LIKE  '%81'; |

**Output:**

|  |
| --- |
|  |

1. List the data as shown below   
   ”Smith has held the position of clerk in dept 20 since 19 june,1982”

**Query:**

|  |
| --- |
| SELECT ENAME  ||' has held the position of '||  JOB  ||' in dept '||  DEPTNO  ||' since '||  HIREDATE  FROM EMP; |

**Output:**

|  |
| --- |
|  |

1. List all rows in employee table by converting commission column to zero.

**Without Update Query:**

|  |
| --- |
| SET LINESIZE 500.  SELECT EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM\*0, DEPTNO  FROM EMP; |

**Output:**

|  |
| --- |
|  |

**With Update Query (I guess this is more suitable, but we haven’t done update query yet):**

|  |
| --- |
| UPDATE EMP  SET COMM = 0; |

**Output:**

|  |
| --- |
|  |

**Verify:**

|  |
| --- |
| Verifying by Displaying all tables again. |

1. Provide the empno and employee name whose salary is greater than 10,00

**Query:**

|  |
| --- |
| SELECT EMPNO, ENAME  FROM EMP  WHERE  SAL >1000; |

**Output:**

|  |
| --- |
|  |

1. List all employees, sorted by job

**Query:**

|  |
| --- |
| SELECT \*  FROM EMP  ORDER BY JOB ASC; |

**Output:**

|  |
| --- |
|  |

1. List departments which are in Chicago?

**Query:**

|  |
| --- |
| SELECT \*  FROM DEPT  WHERE LOC = 'CHICAGO'; |

**Output:**

|  |
| --- |
|  |

1. Which employees get salary less than 20,000 and commission greater than 100.

**Note: I did this task before using update query in task 19 because after update query This Part will give output of no rows selected.**

**Query:**

|  |
| --- |
| SELECT \*  FROM EMP  WHERE SAL <20000  AND  COMM > 100; |

**Output:**

|  |
| --- |
|  |

1. List the names and salary of all employees, except for Jones.

**Query:**

|  |
| --- |
| SELECT \*  FROM EMP  WHERE ENAME  NOT LIKE '%JONES%'; |

**Output:**

|  |
| --- |
|  |

1. Find the empno, job, and hire date of all Clerks and managers hired before 1990. (use IN)

**Query:**

|  |
| --- |
| SELECT EMPNO, JOB, HIREDATE  FROM EMP  WHERE JOB IN('CLERK','MANAGER')  AND HIREDATE<'01-JAN-1990'; |

**Output:**

|  |
| --- |
|  |

1. Find the empno, job, and hire date of all Clerks and managers hired before 1990. (do not use IN)

**Query:**

|  |
| --- |
| SELECT EMPNO, JOB, HIREDATE  FROM EMP  WHERE JOB='CLERK'  OR  JOB = 'MANAGER'  AND  HIREDATE<'01-JAN-1990'; |

**Output:**

|  |
| --- |
|  |

1. List the numbers of all employees who do not earn commission.

**Note: I did this task before using update query in task 19 because after update query This Part will give output of no rows selected.**

**Query:**

|  |
| --- |
| SELECT \*  FROM EMP  WHERE COMM  IS NULL; |

**Output:**

|  |
| --- |
|  |

1. List the departments except research. Without using like

**Query:**

|  |
| --- |
| SELECT \*  FROM DEPT  WHERE DNAME  ! ='RESEARCH'; |

**Output:**

|  |
| --- |
|  |

1. List departments which are in Boston?

**Query:**

|  |
| --- |
| SELECT \*  FROM DEPT  WHERE LOC = 'BOSTON'; |

**Output:**

|  |
| --- |
|  |

1. Create a report to display the last name and job title of all employees who do not have a manager.

**Query:**

|  |
| --- |
| SELECT ENAME, JOB  FROM EMP  WHERE MGR IS NULL; |

**Output:**

|  |
| --- |
|  |