**DataBase LAB EXAM**

**Name :Mahmuda khatun**

**ID: 22-47016-1**

**Section : G**

**1.Create following exam1 table according to given datatype &**

CREATE TABLE EXAM1 (

DEPTNO NUMBER (3),

DEPT NAME VARCHAR(6) CHECK(DEPT\_NAME IN ('CSE','EEE','BBA','ENG','ACH')),

BUDGET NUMBER (6) DEFAULT (500),

PRIMARY KEY(DEPTID)

**2. Create following exam2 table according to given data type and cons**.

CREATE TABLE EXAM2 (

CRS\_ID NUMBER(4)

CRS\_NAME VARCHAR(4) NOT NULL,

DEPTID NUMBER(3),

PRIMARY KEY (CRS\_ID)

**3. Create a query to display the employee name and department number for employee number 7566.**

SELECT DEPTNO,EMPNO

FROM EMP

WHERE EMPNO=7566

**4. Display the employee name, job, and start date of employees hired between February 20, 1981, and May 1, 1981. Order the query in ascending order by start date.**

SELECT ENAME,JOB, HIREDATE AS "START DATE"

FROM EMP

WHERE HIREDATE BETWEEN '20-FEB-1981', AND '1-MAY-1981'

ORDER BY HIREDARE ASC

**5. Display the employee name and department number of all employees in departments 10 and 30 in alphabetical order by name.**

SELECT ENAME AS "EMPLOYEE NAME", DEPTNO AS "DEPARTMENT NUMBER"

FROM EMP

WHERE DEPTNO IN(10,30)

ORDER BY ENAME ASC

**6. Display the name, job, and salary for all employees whose job is Clerk or Analyst and their salary is not equal to $1000, $3000, or $5000**.

SELECT ENAME,JOB,SAL AS "SALARY"

FROM EMP

WHERE JOB = 'CLERK'

OR JOB = 'ANALYST'

AND SAL NOT IN(1000,3000,5000);

**7. Display the name of all employees who have two Ls in their name and are in department 30 or their manager is 7782.**

SELECT ENAME

FROM EMP

WHERE ENAME LIKE('%LL%')

AND DEPTNO IN(30)

OR MGR = 7782;

**8. Display the names of all employees where the third letter of their name is an A.**

SELECT ENAME

FROM EMP

WHERE ENAME LIKE'\_\_A%'

**9. Create a unique listing of all jobs that are in department 30. Include the location of department 30 in the output.**

SELECT DISTINCT JOB,D.LOC

FROM EMP E,DEPT D

WHERE E.DEPTNO IN (30)

AND E.DEPTNO = D.DEPTNO;

**10. Write a query to display the employee name, department name, and location of all employees who earn a commission.**

SELECT E.NAME,E.DEPTNO,D.LOC

FROM EMP E, DEPT D

WHERE E.COMM IS NOT NULL

AND E.DEPTNO=D.DEPTNO

**11. Create a query that will display the department number, employee name, and all the employees that work in the same department as a given employee. Employee name should be titles as “Employee” & another Employee name should be titles as “Colleague” Give each column an appropriate label.**

SELECT E.DEPTNO,E.ENAME AS "EMPLOYESS",EE.ENAME AS "COLLEAGUE"

FROM EMP E JOIN EMP EE

ON(E.DEPTNO = EE.DEPTNO)

AND E.EMPNO<>EE.EMPNO;

**12. Write a query to display the name, department number and salary of any employee whose department number and salary match the department number and salary of any employee who earns a commission.**

SELECT ENAME,DEPTNO,SAL

FROM EMP

WHERE SAL IN(SELECT SAL

FROM EMP

WHERE COMM IS NOT NULL)

AND DEPTNO IN(SELECT DEPTNO FROM EMP WHERE COMM IS NOT NULL);

**13. Find the department where maximum number of employee is located.**

SELECT DEPTNO(

FROM EMP

GROUP BY DEPTNO

HAVING COUNT(\*)=(SELECT MAX(COUNT(\*)))

FROM EMP

GROUP BY DEPTNO)

**14. Find the department no of the highest paid salary. ( Highest paid means maximum of every salary)**

SELECT DEPTNO

FROM EMP

GROUP BY DEPTNO

HAVING COUNT(\*) = (SELECT MAX (COUNT(\*))

FROM EMP

GROUP BY SAL)