ASSIGNMENT-6

Name: Shangirne Kharbanda

Registration Number: 20BAI1154

Slot : L47 + L48

Consider the database for an organization and create the following tables.

- DEPARTMENT (dept_no, dept_name, location).
- EMPLOYEE (emp_no,emp_name,DOB, address, doj, mobile_no, dept_no, salary).

```
SQL> CREATE TABLE DEPT_20BAI1154(
  2  DEPT_NO INT PRIMARY KEY,
  3  DEPT_NAME VARCHAR2(30) NOT NULL,
  4  LOCATION VARCHAR2(30) NOT NULL);

Table created.

SQL> CREATE TABLE EMPLOYEE_20BAI1154(
  2  EMP_NO INT PRIMARY KEY,
  3  EMP_NAME VARCHAR2(30) NOT NULL,
  4  DOB DATE NOT NULL,
  5  ADDRESS VARCHAR2(30) NOT NULL,
  6  DOJ DATE NOT NULL,
  7  MOBILE_NO INT NOT NULL,
  8  DEPT_NO INT NOT NULL,
  9  SALARY INT NOT NULL,
 10  FOREIGN KEY(DEPT_NO) REFERENCES DEPT_20BAI1154(DEPT_NO));

Table created.

SQL>
```

```
SQL> INSERT ALL
  2  INTO DEPT_20BAI1154 VALUES(1,'CSE','LONDON')
  3  INTO DEPT_20BAI1154 VALUES(2,'EEE','IRELAND')
  4  INTO DEPT_20BAI1154 VALUES(3,'ECE','FRANCE')
  5  INTO DEPT_20BAI1154 VALUES(4,'MAT','UAE')
  6  INTO DEPT_20BAI1154 VALUES(5,'DEP','GERMANY')
  7  SELECT * FROM DUAL;

5 rows created.
```

```
SQL> INSERT ALL
  2  INTO EMPLOYEE_20BAI1154 VALUES(1000,'SAM','08-JUN-02','SINGAPORE','22-JUN-15',8768907656,1,30000)
  3  INTO EMPLOYEE_20BAI1154 VALUES(1001,'KOOLERZ','09-JUN-02','MALAYSIA','23-JUN-15',7658123284,1,30000)
  4  INTO EMPLOYEE_20BAI1154 VALUES(1002,'ELISSA','10-JUN-02','SINGAPORE','24-JUN-15',6785923451,2,50000)
  5  INTO EMPLOYEE_20BAI1154 VALUES(1003,'CHARLOTTE','11-JUN-02','SINGAPORE','25-JUN-15',5678909876,2,90000)
  6  INTO EMPLOYEE_20BAI1154 VALUES(1004,'JOHN','15-JAN-03','LONDON','26-JUN-15',4356789076,2,80000)
  7  INTO EMPLOYEE_20BAI1154 VALUES(1005,'REENA','16-FEB-04','SINGAPORE','27-JUN-15',5467890876,3,10000)
  8  SELECT * FROM DUAL;

6 rows created.
```

1. Display the names of the employees working for CSE department

```
SQL> SELECT EMP_NAME FROM EMPLOYEE_20BAI1154 WHERE DEPT_NO IN(SELECT DEPT_NO FROM DEPT_20BAI1154 WHERE DEPT_NAME='CSE');


EMP_NAME
------------------------------
SAM
KOOLERZ

SQL>
```

2. Display names of employees whose salary is greater than the employee emp_no=1234

```
SQL> SELECT EMP_NAME FROM EMPLOYEE_20BAI1154 WHERE SALARY>(SELECT SALARY FROM EMPLOYEE_20BAI1154 WHERE EMP_NO=1000);

EMP_NAME
------------------------------
ELISSA
CHARLOTTE
JOHN

SQL>
```

3. Display all the employees drawing more than or equal to the average salary of department number 5.

```
SQL> SELECT EMP_NAME,EMP_NO FROM EMPLOYEE_20BAI1154 WHERE SALARY>=(SELECT AVG(SALARY) FROM EMPLOYEE_20BAI1154 WHERE DEPT_NO=5);

no rows selected

SQL>
```

4. Display the name of the highest paid employee

```
SQL> SELECT EMP_NAME FROM EMPLOYEE_20BAI1154 WHERE SALARY IN (SELECT MAX(SALARY) FROM EMPLOYEE_20BAI1154);

EMP_NAME
------------------------------
CHARLOTTE

SQL>
```

5. Find the Name and Salary of people who draw in the range Rs. 20,000 to Rs. 40,000

```
SQL> SELECT EMP_NAME,SALARY FROM EMPLOYEE_20BAI1154 WHERE SALARY IN(SELECT SALARY FROM EMPLOYEE_20BAI1154 WHERE SALARY>20000 AND SALARY<40000);

EMP_NAME                       SALARY
------------------------------ ----------
KOOLERZ                         30000
SAM                             30000

SQL>
```

6. Update the salary by 0.25 times for all employees who work in research department.

```
SQL> UPDATE EMPLOYEE_20BAI1154 SET SALARY=SALARY+0.25*SALARY WHERE DEPT_NO=(SELECT DEPT_NO FROM DEPARTMENT_20BAI1154 WHERE DEPT_NAME='RESEARCH');
```

7. Delete all the employee details from admin department.

```
SQL> DELETE FROM EMPLOYEE_20BAI1154 WHERE DEPT_NO=(SELECT DEPT_NO FROM DEPT_20BAI1154 WHERE DEPT_NAME='ADMIN');
```

8. Display the department name in which employee that has lowest salary.

```
SQL> SELECT DEPT_NAME FROM DEPT_20BAI1154 WHERE DEPT_NO=(SELECT DEPT_NO FROM EMPLOYEE_20BAI1154 WHERE SALARY=(SELECT SALARY FROM EMPLOYEE_20BAI1154 WHERE SALARY=(SELECT MIN(SALARY) FROM EMPLOYEE_20BAI1154)));

DEPT_NAME
------------------------------
ECE

SQL>
```

9. Display the employee details of all employees who earn more than that of ‘Reena’ and in the same department as ‘John’

```
SQL> SELECT * FROM EMPLOYEE_20BAI1154 WHERE SALARY>ALL(SELECT SALARY FROM EMPLOYEE_20BAI1154 WHERE EMP_NAME='REENA' AND DEPT_NO=(SELECT DEPT_NO FROM EMPLOYEE_20BAI1154 WHERE EMP_NAME='JOHN'));

    EMP_NO EMP_NAME                       DOB
---------- ------------------------------ ---------
ADDRESS                        DOJ       MOBILE_NO   DEPT_NO     SALARY
------------------------------ --------- ---------- ---------- ----------
      1000 SAM                            08-JUN-02
SINGAPORE                      22-JUN-15 8768907656          1      30000

      1001 KOOLERZ                        09-JUN-02
MALAYSIA                       23-JUN-15 7658123284          1      30000

      1002 ELISSA                         10-JUN-02
SINGAPORE                      24-JUN-15 6785923451          2      50000


    EMP_NO EMP_NAME                       DOB
---------- ------------------------------ ---------
ADDRESS                        DOJ       MOBILE_NO   DEPT_NO     SALARY
------------------------------ --------- ---------- ---------- ----------
      1003 CHARLOTTE                      11-JUN-02
SINGAPORE                      25-JUN-15 5678909876          2      90000

      1004 JOHN                           15-JAN-03
LONDON                         26-JUN-15 4356789076          2      80000

      1005 REENA                          16-FEB-04
SINGAPORE                      27-JUN-15 5467890876          3      10000


6 rows selected.
```

10. Display the name of the employees whose salary is less than the average salary of CSE department.

```
SQL> SELECT EMP_NAME FROM EMPLOYEE_20BAI1154 WHERE SALARY<ANY(SELECT AVG(SALARY) FROM EMPLOYEE_20BAI1154 WHERE DEPT_NO=1);

EMP_NAME
------------------------------
REENA

SQL>
```

11. Count the number of employees of department where “John” works

```
SQL> SELECT COUNT(EMP_NO) FROM EMPLOYEE_20BAI1154 GROUP BY DEPT_NO HAVING DEPT_NO=(SELECT DEPT_NO FROM EMPLOYEE_20BAI1154 WHERE EMP_NAME='JOHN');

COUNT(EMP_NO)
-------------
            3

SQL>
```