ASSIGNMENT-5

Name: Shangirne Kharbanda

Registration Number: 20BAI1154

Slot: L47 + L48

Create an EMPLOYEE Table with the following attributes

EMPID, EMPNAME, JOB, DOB, SALARY, DEPTNO, GENDER

```
SQL> CREATE TABLE EMPLOYEE_20BAI1154(
 2 EMPID INT NOT NULL,
 3 EMPNAME VARCHAR2(30) NOT NULL,
4 JOB VARCHAR2(30) NOT NULL,
 5 DOB DATE NOT NULL,
    SALARY INT NOT NULL,
    DEPTNO INT NOT NULL,
 8 GENDER VARCHAR2(30) NOT NULL);
Table created.
SQL> DESC EMPLOYEE_20BI1154;
ERROR:
ORA-04043: object EMPLOYEE_20BI1154 does not exist
SQL> DESC EMPLOYEE_20BAI1154;
                                               Null?
Name
                                                         Type
 EMPID
                                               NOT NULL NUMBER(38)
                                               NOT NULL VARCHAR2(30)
NOT NULL VARCHAR2(30)
EMPNAME
JOB
DOB
                                               NOT NULL DATE
SALARY
                                               NOT NULL NUMBER(38)
DEPTNO
                                               NOT NULL NUMBER(38)
                                               NOT NULL VARCHAR2(30)
GENDER
SQL>
```

```
SQL> INSERT ALL
2 INTO EMPLOYEE_20BAI1154 VALUES(1, 'RICK', 'MANAGER', '12-AUG-01', 20000, 100, 'MALE')
3 INTO EMPLOYEE_20BAI1154 VALUES(2, 'CHARLOTTE', 'SUPERVISOR', '11-APR-02', 15000, 101, 'FEMALE')
4 INTO EMPLOYEE_20BAI1154 VALUES(3, 'MARGEARY', 'ASSISTANT MANAGER', '26-OCT-02', 10000, 102, 'FEMALE')
5 INTO EMPLOYEE_20BAI1154 VALUES(4, 'MARTY', 'SALES EXECUTIVE', '17-AUG-01', 8000, 103, 'MALE')
6 INTO EMPLOYEE_20BAI1154 VALUES(5, 'VICTORIA', 'HR MANAGER', '16-APR-01', 11000, 104, 'FEMALE')
7 INTO EMPLOYEE_20BAI1154 VALUES(6, 'TYRION', 'JANITOR', '05-OCT-15', 3000, 105, 'MALE')
8 INTO EMPLOYEE_20BAI1154 VALUES(7, 'JAMIE', 'JANITOR', '14-JUL-15', 2000, 106, 'MALE')
9 INTO EMPLOYEE_20BAI1154 VALUES(8, 'EVA', 'RECEPTIONIST', '27-APR-02', 6000, 107, 'FEMALE')
10 INTO EMPLOYEE_20BAI1154 VALUES(9, 'ANDREA', 'SECRETARY', '11-AUG-01', 7000, 108, 'FEMALE')
11 INTO EMPLOYEE_20BAI1154 VALUES(10, 'XAVIER', 'HANDLER OF OPERATIONS', '03-OCT-01', 11000, 109, 'MALE')
12 SELECT * FROM DUAL;
10 rows created.
```

1. Calculate the square root of the salary of all employees.

Ans 1.

2. Apply any other five numeric built in function to 'salary' attribute of employee table.

```
SQL> SELECT POWER(SALARY,2) FROM EMPLOYEE_20BAI1154;
POWER(SALARY,2)
     400000000
      225000000
     100000000
      64000000
      121000000
       9000000
       4000000
      36000000
      49000000
      121000000
10 rows selected.
SQL> SELECT MOD(SALARY,2) FROM EMPLOYEE_20BAI1154;
MOD(SALARY,2)
            0
            0
           0
           0
           0
           0
            0
            0
            0
            0
10 rows selected.
```

3. Extract only the first 5 characters of the employee names.

4. Apply any other five string built in function to 'name' attribute of employee table.

```
LENGTH(EMPNAME)
10 rows selected.
SQL> SELECT LOWER(EMPNAME) FROM EMPLOYEE_20BAI1154;
LOWER(EMPNAME)
-----
rick
charlotte
charlotte
margeary
marty
victoria
tyrion
jamie
eva
andrea
10 rows selected.
SQL> SELECT INSTR(EMPNAME, 'A',1) FROM EMPLOYEE_20BAI1154;
INSTR(EMPNAME,'A',1)
SQL> SELECT INITCAP(EMPNAME) FROM EMPLOYEE_20BAI1154;
INITCAP(EMPNAME)
Rick
Charlotte
Margeary
Marty
Victoria
Tyrion
Jamie
Eva
Andrea
Xavier
10 rows selected.
```

SQL> SELECT LENGTH(EMPNAME) FROM EMPLOYEE_20BAI1154;

5. Determine the max and min salary and rename the column as max_salary and min_salary.

```
SQL> SELECT MAX(SALARY) AS MAX_SALARY FROM EMPLOYEE_20BAI1154;

MAX_SALARY
--------
20000

SQL> SELECT MIN(SALARY) AS MIN_SALARY FROM EMPLOYEE_20BAI1154;

MIN_SALARY
--------
2000

SQL>
```

6 Display the month name of date "14-jul-15" in full.

```
SQL> SELECT MONTHNAME('14-JUL-15');
```

7. Display the Dob of all employees in the format "dd-mm-yy".

```
SQL> SELECT TO_CHAR(DOB,'dd-mm-yy') FROM EMPLOYEE_20BAI1154;

TO_CHAR(
------
12-08-01
11-04-02
26-10-02
17-08-01
16-04-01
05-10-15
14-07-15
27-04-02
11-08-01
03-10-01
10 rows selected.
```

8. Display the date two months after the Dob of employees.

```
SQL> SELECT ADD_MONTHS(DOB,2) FROM EMPLOYEE_20BAI1154;

ADD_MONTH
------
12-OCT-01
11-JUN-02
26-DEC-02
17-OCT-01
16-JUN-01
05-DEC-15
14-SEP-15
27-JUN-02
11-OCT-01
03-DEC-01
10 rows selected.
```

9. Display the last date of that month in "05-Oct-15".

```
SQL> SELECT LAST_DAY('05-OCT-15') FROM DUAL;

LAST_DAY(
-----
31-OCT-15

SQL>
```

10. Display the rounded date in the year format, month format, day format

```
SQL> SELECT TO_CHAR(DOB,'yy-mm-dd') FROM EMPLOYEE_20BAI1154;

TO_CHAR(
------
01-08-12
02-04-11
02-10-26
01-08-17
01-04-16
15-10-05
15-07-14
02-04-27
01-08-11
01-10-03

10 rows selected.
```

11. Display the date 60 days before current date.

```
SQL> SELECT (DOB-60) PREVDATE FROM EMPLOYEE_20BAI1154;

PREVDATE
------
13-JUN-01
10-FEB-02
27-AUG-02
18-JUN-01
15-FEB-01
06-AUG-15
15-MAY-15
26-FEB-02
12-JUN-01
04-AUG-01
10 rows selected.

SQL>
```

12. Display the names and dob of all employees who were born in August.

13. List out the employee names who will celebrate their birthdays during current month.

14. List all female employees who were born April.

15. What is the difference between maximum and minimum salaries of employees in the organization?

16. Display number of employees working in each department and their department name.

17. Display total salary spent for employees.

```
SQL> SELECT SUM(SALARY) AS TOTAL_SALARY FROM EMPLOYEE_20BAI1154;

TOTAL_SALARY

93000

SQL>
```

18. Display total salary spent for each job category.

```
SQL> SELECT JOB,SUM(SALARY) FROM EMPLOYEE_20BAI1154 GROUP BY JOB;
JOB
                              SUM(SALARY)
SUPERVISOR
                                    15000
SECRETARY
                                     7000
ASSISTANT MANAGER
                                    10000
RECEPTIONIST
                                     6000
JANITOR
                                     5000
HANDLER OF OPERATIONS
                                    11000
MANAGER
                                    20000
HR MANAGER
                                    11000
SALES EXECUTIVE
                                     8000
9 rows selected.
SQL>
```

19. Display lowest paid employee details under each manager.

```
QL> SELECT * FROM EMPLOYEE_20BAI1154 WHERE JOB!='MANAGER';
    EMPID EMPNAME
    SALARY
2 CHARLOTTE
11-APR-02 15000
                                         SUPERVISOR
3 MARGEARY
26-0CT-02 10000
                                        ASSISTANT MANAGER
                          102 FEMALE
4 MARTY
17-AUG-01 8000
                           103 MALE
    EMPID EMPNAME
DOB SALARY

5 VICTORIA
16-APR-01 11000
                        DEPTNO GENDER
                                        HR MANAGER
                          104 FEMALE
 6 TYRION
05-0CT-15 3000
                          105 MALE
7 JAMIE
14-JUL-15 2000
                          106 MALE
    EMPID EMPNAME
DOB SALARY
                       DEPTNO GENDER
8 EVA
27-APR-02 6000
                                         RECEPTIONIST
 9 ANDREA
L1-AUG-01 7000
                          108 FEMALE
10 XAVIER
03-OCT-01 11000
                           109 MALE
```

20. Find how many job titles are available in employee table.

```
SQL> SELECT COUNT(DISTINCT JOB) AS NO_OF_JOBS FROM EMPLOYEE_20BAI1154;

NO_OF_JOBS
--------9

SQL>
```