DBMS-L55+L56 - Assignment 4

By-

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L55+L56

Create the table employee and insert the listed values

```
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SQL> connet
SP2-0042: unknown command "connet" - rest of line ignored.
SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL> CREATE TABLE employee(name VARCHAR2(10), dob DATE, doj DATE, gender VARCHAR2(1), skill1 VARCHAR2(10), skill2 VARCHAR2(10), salary NUMBER(5));

Table created.

SQL> DESC employee;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 NAME                                               VARCHAR2(10)
 DOB                                                DATE
 DOJ                                                DATE
 GENDER                                             VARCHAR2(1)
 SKILL1                                             VARCHAR2(10)
 SKILL2                                             VARCHAR2(10)
 SALARY                                             NUMBER(5)

SQL> INSERT INTO employee VALUES('ANITHA', '30-JUN-60', '28-APR-75', 'F', 'C++', 'ASP.NET', 1000);

1 row created.

SQL> INSERT INTO employee VALUES('KAMALA', '28-APR-75', '20-MAY-92', 'F', 'DBASE', 'C#.NET', 2000);

1 row created.

SQL> INSERT INTO employee VALUES('MARY', '30-MAR-91', '09-APR-05', 'F', 'C++', 'DBASE', 2020);

1 row created.

SQL> INSERT INTO employee VALUES('ANAND', '02-JAN-89', '20-APR-09', 'M', 'ORACLE', 'C', 2100);
```

Run SQL Command Line

```
1 row created.

SQL> INSERT INTO employee VALUES('KAMALA', '28-APR-75', '20-MAY-92', 'F', 'DBASE', 'C#.NET', 2000);

1 row created.

SQL> INSERT INTO employee VALUES('MARY', '30-MAR-91', '09-APR-05', 'F', 'C++', 'DBASE', 2020);

1 row created.

SQL> INSERT INTO employee VALUES('ANAND', '02-JAN-89', '20-APR-09', 'M', 'ORACLE', 'C', 2100);

1 row created.

SQL> INSERT INTO employee VALUES('KARTHICK', '11-FEB-70', '15-JUN-12', 'M', 'JAVA', 'C++', 2500);

1 row created.

SQL>
SQL> INSERT INTO employee VALUES('VIJAY', '29-OCT-82', '15-JUN-12', 'M', 'C#.NET', 'C++', 2520);

1 row created.

SQL> INSERT INTO employee VALUES('JAGADESH', '19-DEC-87', '15-JUN-12', 'M', 'COBOL', 'C++', 2500);

1 row created.

SQL> SELECT * FROM employee;

NAME       DOB       DOJ       G SKILL1     SKILL2         SALARY
---------- --------- --------- - ---------- ---------- ----------
ANITHA     30-JUN-60 28-APR-75 F C++        ASP.NET          1000
KAMALA     28-APR-75 20-MAY-92 F DBASE      C#.NET           2000
MARY       30-MAR-91 09-APR-05 F C++        DBASE            2020
ANAND      02-JAN-89 20-APR-09 M ORACLE     C                2100
KARTHICK   11-FEB-70 15-JUN-12 M JAVA       C++              2500
VIJAY      29-OCT-82 15-JUN-12 M C#.NET     C++              2520
JAGADESH   19-DEC-87 15-JUN-12 M COBOL      C++              2500
```

How many female programmers are there?

```
SQL> SELECT COUNT(gender) FROM employee WHERE gender='F';

COUNT(GENDER)
-------------
            3
```

What is the Average salary?

```
SQL> SELECT AVG(salary) FROM employee;

AVG(SALARY)
-----------
 2091.42857
```

How many programmers know either Cobol or Pascal?

```
SQL> SELECT COUNT(NAME) AS employee FROM employee WHERE skill1 IN ('COBOL' ,'PASCAL' ) OR skill2 IN ('COBOL' ,'PASCAL' );

 EMPLOYEE
---------
       1
```

What is the average age of female programmers?

```
SQL>
SQL> SELECT AVG(FLOOR((SYSDATE - dob)/365)) FROM employee WHERE gender = 'F';

AVG(FLOOR((SYSDATE-DOB)/365))
-----------------------------
                   44.6666667
```

Updating column packages

```
SQL> UPDATE employee SET package=5 WHERE NAME='KAMALA';

1 row updated.

SQL> UPDATE employee SET package=8 WHERE NAME='MARY';

1 row updated.

SQL> UPDATE employee SET package=2 WHERE NAME='ANAND';

1 row updated.

SQL> UPDATE employee SET package=9 WHERE NAME='KARTHICK';

1 row updated.

SQL> UPDATE employee SET package=4 WHERE NAME='VIJAY';

1 row updated.

SQL> UPDATE employee SET package=1 WHERE NAME='JAGADESH';

1 row updated.
```

```
SQL> SELECT * FROM employee;

NAME       DOB       DOJ       G SKILL1     SKILL2         SALARY    PACKAGE
---------- --------- --------- - ---------- ---------- ---------- ----------
ANITHA     30-JUN-60 28-APR-75 F C++        ASP.NET          1000          9
KAMALA     28-APR-75 20-MAY-92 F DBASE      C#.NET           2000         12
MARY       30-MAR-91 09-APR-05 F C++        DBASE            2020          8
ANAND      02-JAN-89 20-APR-09 M ORACLE     C                2100          2
KARTHICK   11-FEB-70 15-JUN-12 M JAVA       C++              2500          9
VIJAY      29-OCT-82 15-JUN-12 M C#.NET     C++              2520          4
JAGADESH   19-DEC-87 15-JUN-12 M COBOL      C++              2500          1
```

Display the NUMBER of packages developed by EACH programmer.

```
SQL> SELECT NAME,PACKAGE FROM employee;

NAME          PACKAGE
---------- ----------
ANITHA             9
KAMALA            12
MARY               8
ANAND              2
KARTHICK           9
VIJAY              4
JAGADESH           1
```

Display THE NUMBER OF male and female programmer.

```
SQL> SELECT count(gender) "Male,female" FROM employee group by gender;

Male,female
-----------
          4
          3
```

Display the programmer's name and their packages.

```
SQL> SELECT NAME,PACKAGE FROM employee;

NAME          PACKAGE
---------- ----------
ANITHA             9
KAMALA            12
MARY               8
ANAND              2
KARTHICK           9
VIJAY              4
JAGADESH           1
```

How many employees paid 5000 to 10000?

```
SQL> SELECT name FROM employee WHERE salary>5000 AND salary<10000;

no rows selected
```

Give the average salary paid for the employee who have the c++ skill.

```
SQL> SELECT AVG(Salary) FROM employee WHERE skill1='C++' or skill2='C++';

AVG(SALARY)
-----------
       2108
```

Which employee paid the highest salary with their skills name

```
SQL> SELECT name,skill1,skill2 FROM employee WHERE SALARY IN(SELECT MAX(salary) FROM employee);

NAME       SKILL1     SKILL2
---------- ---------- ----------
VIJAY      C#.NET     C++
```

```
SQL> SELECT name FROM employee WHERE SALARY IN(SELECT MAX(salary) FROM employee);

NAME
----------
VIJAY
```

Which employee paid the lowest salary?

```
SQL> SELECT name FROM employee WHERE SALARY IN(SELECT MIN(salary) FROM employee);

NAME
----------
ANITHA
```

Give the total salary paid for the skill c#.net.

```
SQL> SELECT sum(salary) FROM employee WHERE skill1='C#.NET' OR skill2='C#.NET';

SUM(SALARY)
-----------
       4520
```