VIT
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)
CHENNAI

CSE1004 – DBMS - DIGITAL ASSIGNMENT -2

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Assignment Due Date: 07.10.2021

DBMS DIGITAL ASSIGNMENT 2 MEHER SHRISHTI NIGAM 20BRS1193

Creating the tables -

```
CREATE TABLE WORKER_20BRS1193 (WORKER_ID INT PRIMARY KEY, FIRST_NAME VARCHAR2(20), LAST_NAME VARCHAR2(20), SALARY INT, JOIN_DATE DATE, DEPARTMENT VARCHAR(20));

INSERT ALL

    INTO WORKER_20BRS1193 VALUES (1, 'Balasundaram', 'Ananth', 100000, TO_DATE('20-02-2014 09:00','DD-MM-YYYY HH24:MI'), 'HR')

    INTO WORKER_20BRS1193 VALUES (2, 'Kumar', 'Verma', 80000, TO_DATE('11-06-2014 09:00','DD-MM-YYYY HH24:MI'), 'Admin')

    INTO WORKER_20BRS1193 VALUES (3, 'Vishal', 'Singhal', 300000, TO_DATE('20-02-2014 09:00','DD-MM-YYYY HH24:MI'), 'HR')

    INTO WORKER_20BRS1193 VALUES (4, 'Amitabh', 'Singh', 500000, TO_DATE('20-02-2014 09:00','DD-MM-YYYY HH24:MI'), 'Admin')

    INTO WORKER_20BRS1193 VALUES (5, 'Vivek', 'Bhati', 500000, TO_DATE('11-06-2014 09:00','DD-MM-YYYY HH24:MI'), 'Admin')

    INTO WORKER_20BRS1193 VALUES (6, 'Vipul', 'Diwan', 200000 , TO_DATE('11-06-2014 09:00','DD-MM-YYYY HH24:MI'), 'Account')

    INTO WORKER_20BRS1193 VALUES (7, 'Satish', 'Kumar', 75000, TO_DATE('20-01-2014 09:00','DD-MM-YYYY HH24:MI'), 'Account')

    INTO WORKER_20BRS1193 VALUES (8, 'Rishabh', 'Chauhan', 90000 , TO_DATE('11-04-2014 09:00','DD-MM-YYYY HH24:MI'), 'Admin')

SELECT * FROM DUAL;


CREATE TABLE BONUS_20BRS1193 (WORKER_REF_ID INT, BONUS_DATE DATE , BONUS_AMOUNT INT, CONSTRAINT FK_G1 FOREIGN KEY (WORKER_REF_ID) REFERENCES WORKER_20BRS1193(WORKER_ID));

INSERT ALL

    INTO BONUS_20BRS1193 VALUES (1, TO_DATE('20-02-2016 00:00','DD-MM-YYYY HH24:MI'), 5000)

    INTO BONUS_20BRS1193 VALUES (2, TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'), 3000)

    INTO BONUS_20BRS1193 VALUES (3, TO_DATE('20-02-2016 00:00','DD-MM-YYYY HH24:MI'), 4000)

    INTO BONUS_20BRS1193 VALUES (1, TO_DATE('20-02-2016 00:00','DD-MM-YYYY HH24:MI'), 4500)

    INTO BONUS_20BRS1193 VALUES (2, TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'), 3500)
```

SELECT * FROM DUAL;

CREATE TABLE TITLE_20BRS1193 (WORKER_REF_ID INT, WORKER_TITLE VARCHAR2(20), AFFECTED_FROM DATE , CONSTRAINT FK_G2 FOREIGN KEY (WORKER_REF_ID) REFERENCES WORKER_20BRS1193(WORKER_ID));

INSERT ALL

INTO TITLE_20BRS1193 VALUES (1, 'Manager', TO_DATE('20-02-2016 00:00','DD-MM-YYYY HH24:MI'))

INTO TITLE_20BRS1193 VALUES (2, 'Executive', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))

INTO TITLE_20BRS1193 VALUES (8, 'Executive', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))

INTO TITLE_20BRS1193 VALUES (5, 'Manager', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))

INTO TITLE_20BRS1193 VALUES (4, 'Asst. Manager', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))

INTO TITLE_20BRS1193 VALUES (7, 'Executive', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))

INTO TITLE_20BRS1193 VALUES (6, 'Lead', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))

INTO TITLE_20BRS1193 VALUES (3, 'Lead', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))

SELECT * FROM DUAL;

```
SQL> CREATE TABLE WORKER_20BRS1193 (WORKER_ID INT PRIMARY KEY, FIRST_NAME VARCHAR2(20), LAST_NAME VARCHAR2(20), SALARY INT, JOIN
_DATE DATE, DEPARTMENT VARCHAR(20));

Table created.

SQL> INSERT ALL
  2  INTO WORKER_20BRS1193 VALUES (1, 'Balasundaram', 'Ananth', 100000, TO_DATE('20-02-2014 09:00','DD-MM-YYYY HH24:MI'), 'HR')
  3  INTO WORKER_20BRS1193 VALUES (2, 'Kumar', 'Verma', 80000, TO_DATE('11-06-2014 09:00','DD-MM-YYYY HH24:MI'), 'Admin')
  4  INTO WORKER_20BRS1193 VALUES (3, 'Vishal', 'Singhal', 300000, TO_DATE('20-02-2014 09:00','DD-MM-YYYY HH24:MI'), 'HR')
  5  INTO WORKER_20BRS1193 VALUES (4, 'Amitabh', 'Singh', 500000, TO_DATE('20-02-2014 09:00','DD-MM-YYYY HH24:MI'), 'Admin')
  6  INTO WORKER_20BRS1193 VALUES (5, 'Vivek', 'Bhati', 500000, TO_DATE('11-06-2014 09:00','DD-MM-YYYY HH24:MI'), 'Admin')
  7  INTO WORKER_20BRS1193 VALUES (6, 'Vipul', 'Diwan', 200000 , TO_DATE('11-06-2014 09:00','DD-MM-YYYY HH24:MI'), 'Account')
  8  INTO WORKER_20BRS1193 VALUES (7, 'Satish', 'Kumar', 75000, TO_DATE('20-01-2014 09:00','DD-MM-YYYY HH24:MI'), 'Account')
  9  INTO WORKER_20BRS1193 VALUES (8, 'Rishabh', 'Chauhan', 90000 , TO_DATE('11-04-2014 09:00','DD-MM-YYYY HH24:MI'), 'Admin')
 10  SELECT * FROM DUAL;

8 rows created.

SQL>
SQL> CREATE TABLE BONUS_20BRS1193 (WORKER_REF_ID INT, BONUS_DATE DATE , BONUS_AMOUNT INT, CONSTRAINT FK_G1 FOREIGN KEY (WORKER_R
EF_ID) REFERENCES WORKER_20BRS1193(WORKER_ID));

Table created.

SQL> INSERT ALL
  2  INTO BONUS_20BRS1193 VALUES (1, TO_DATE('20-02-2016 00:00','DD-MM-YYYY HH24:MI'), 5000)
  3  INTO BONUS_20BRS1193 VALUES (2, TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'), 3000)
  4  INTO BONUS_20BRS1193 VALUES (3, TO_DATE('20-02-2016 00:00','DD-MM-YYYY HH24:MI'), 4000)
  5  INTO BONUS_20BRS1193 VALUES (1, TO_DATE('20-02-2016 00:00','DD-MM-YYYY HH24:MI'), 4500)
  6  INTO BONUS_20BRS1193 VALUES (2, TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'), 3500)
  7  SELECT * FROM DUAL;

5 rows created.

SQL>
SQL>
SQL> CREATE TABLE TITLE_20BRS1193 (WORKER_REF_ID INT, WORKER_TITLE VARCHAR2(20), AFFECTED_FROM DATE , CONSTRAINT FK_G2 FOREIGN K
EY (WORKER_REF_ID) REFERENCES WORKER_20BRS1193(WORKER_ID));

Table created.

SQL> INSERT ALL
  2  INTO TITLE_20BRS1193 VALUES (1, 'Manager', TO_DATE('20-02-2016 00:00','DD-MM-YYYY HH24:MI'))
  3  INTO TITLE_20BRS1193 VALUES (2, 'Executive', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))
  4  INTO TITLE_20BRS1193 VALUES (8, 'Executive', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))
  5  INTO TITLE_20BRS1193 VALUES (5, 'Manager', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))
  6  INTO TITLE_20BRS1193 VALUES (4, 'Asst. Manager', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))
  7  INTO TITLE_20BRS1193 VALUES (7, 'Executive', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))
  8  INTO TITLE_20BRS1193 VALUES (6, 'Lead', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))
  9  INTO TITLE_20BRS1193 VALUES (3, 'Lead', TO_DATE('11-06-2016 00:00','DD-MM-YYYY HH24:MI'))
 10  SELECT * FROM DUAL;

8 rows created.
```

1. Write an SQL query to fetch FIRST_NAME using the alias name WORKER_NAME from Worker table.

SELECT FIRST_NAME AS WORKER_NAME FROM WORKER_20BRS1193;

```
SQL> SELECT FIRST_NAME AS WORKER_NAME FROM WORKER_20BRS1193;

WORKER_NAME
--------------------
Balasundaram
Kumar
Vishal
Amitabh
Vivek
Vipul
Satish
Rishabh

8 rows selected.
```

2. Write an SQL query to fetch FIRST_NAME from Worker table in upper case.

SELECT UPPER(FIRST_NAME) AS WORKER_NAME FROM WORKER_20BRS1193;

```
SQL> SELECT UPPER(FIRST_NAME) AS WORKER_NAME FROM WORKER_20BRS1193;

WORKER_NAME
--------------------
BALASUNDARAM
KUMAR
VISHAL
AMITABH
VIVEK
VIPUL
SATISH
RISHABH

8 rows selected.
```

3. Write an SQL query to fetch unique values of DEPARTMENT from Worker table.

SELECT DISTINCT DEPARTMENT FROM WORKER_20BRS1193;

```
SQL> SELECT DISTINCT DEPARTMENT FROM WORKER_20BRS1193;

DEPARTMENT
--------------------
Admin
Account
HR
```

4. Write an SQL query to print the first three characters of FIRST_NAME from Worker table.

SELECT SUBSTR(FIRST_NAME,1,3) FROM WORKER_20BRS1193;

```
SQL> SELECT SUBSTR(FIRST_NAME,1,3) FROM WORKER_20BRS1193;

SUBSTR(FIRST
------------
Bal
Kum
Vis
Ami
Viv
Vip
Sat
Ris

8 rows selected.
```

5. Write an SQL query that fetches the unique values of DEPARTMENT from Worker table and prints its length.

SELECT DISTINCT DEPARTMENT, LENGTH(DEPARTMENT) AS LEN FROM WORKER_20BRS1193;

```
SQL> SELECT DISTINCT DEPARTMENT, LENGTH(DEPARTMENT) AS LEN FROM WORKER_20BRS1193;

DEPARTMENT                   LEN
-------------------- ----------
Admin                         5
HR                            2
Account                       7
```

6. Write an SQL query to print the FIRST_NAME and LAST_NAME from Worker table into a single column COMPLETE_NAME. A space char should separate them.

SELECT FIRST_NAME || ' ' || LAST_NAME AS COMPLETE_NAME FROM WORKER_20BRS1193;

```
SQL> SELECT FIRST_NAME || ' ' || LAST_NAME AS COMPLETE_NAME FROM WORKER_20BRS1193;

COMPLETE_NAME
----------------------------------------
Balasundaram Ananth
Kumar Verma
Vishal Singhal
Amitabh Singh
Vivek Bhati
Vipul Diwan
Satish Kumar
Rishabh Chauhan

8 rows selected.
```

7. Write an SQL query to print all Worker details from the Worker table order by FIRST_NAME Ascending and DEPARTMENT Descending.

SELECT * FROM WORKER_20BRS1193 ORDER BY FIRST_NAME ASC, DEPARTMENT DESC;

```
SQL> SELECT * FROM WORKER_20BRS1193 ORDER BY FIRST_NAME ASC, DEPARTMENT DESC;

 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         4 Amitabh              Singh                    500000 20-FEB-14
Admin

         1 Balasundaram         Ananth                   100000 20-FEB-14
HR

         2 Kumar                Verma                     80000 11-JUN-14
Admin


 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         8 Rishabh              Chauhan                   90000 11-APR-14
Admin

         7 Satish               Kumar                     75000 20-JAN-14
Account

         6 Vipul                Diwan                    200000 11-JUN-14
Account


 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         3 Vishal               Singhal                  300000 20-FEB-14
HR

         5 Vivek                Bhati                    500000 11-JUN-14
Admin


8 rows selected.
```

8. Write an SQL query to print details of Workers with DEPARTMENT name as Admin.

SELECT * FROM WORKER_20BRS1193 WHERE DEPARTMENT = 'Admin';

```
SQL> SELECT * FROM WORKER_20BRS1193 WHERE DEPARTMENT = 'Admin';

 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         2 Kumar                Verma                     80000 11-JUN-14
Admin

         4 Amitabh              Singh                    500000 20-FEB-14
Admin

         5 Vivek                Bhati                    500000 11-JUN-14
Admin


 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         8 Rishabh              Chauhan                   90000 11-APR-14
Admin
```

9. Write an SQL query to print details of the Workers whose FIRST_NAME contains ‘a’.

SELECT * FROM WORKER_20BRS1193 WHERE FIRST_NAME LIKE 'A%';

```
SQL> SELECT * FROM WORKER_20BRS1193 WHERE FIRST_NAME LIKE 'A%';

 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         4 Amitabh              Singh                    500000 20-FEB-14
Admin
```

10. Write an SQL query to print details of the Workers whose SALARY lies between 100000 and 500000.

SELECT * FROM WORKER_20BRS1193 WHERE SALARY BETWEEN 100000 AND 500000;

```
SQL> SELECT * FROM WORKER_20BRS1193 WHERE SALARY BETWEEN 100000 AND 500000;

 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         1 Balasundaram         Ananth                   100000 20-FEB-14
HR

         3 Vishal               Singhal                  300000 20-FEB-14
HR

         4 Amitabh              Singh                    500000 20-FEB-14
Admin


 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         5 Vivek                Bhati                    500000 11-JUN-14
Admin

         6 Vipul                Diwan                    200000 11-JUN-14
Account
```

11. Write an SQL query to print details of the Workers who have joined in Feb'2014.

SELECT * FROM WORKER_20BRS1193 WHERE TO_CHAR(JOIN_DATE,'MM-YYYY') = '02-2014';

```
SQL> SELECT * FROM WORKER_20BRS1193 WHERE TO_CHAR(JOIN_DATE,'MM-YYYY') = '02-2014';

 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         1 Balasundaram         Ananth                   100000 20-FEB-14
HR

         3 Vishal               Singhal                  300000 20-FEB-14
HR

         4 Amitabh              Singh                    500000 20-FEB-14
Admin
```

12. Write an SQL query to fetch the no. of workers for each department in the descending order.

SELECT COUNT(*), DEPARTMENT FROM WORKER_20BRS1193 GROUP BY DEPARTMENT ORDER BY DEPARTMENT DESC;

```
SQL> SELECT COUNT(*), DEPARTMENT FROM WORKER_20BRS1193 GROUP BY DEPARTMENT ORDER BY DEPARTMENT DESC;

  COUNT(*) DEPARTMENT
---------- --------------------
         2 HR
         4 Admin
         2 Account
```

13. Write an SQL query to print details of the Workers who are also Managers.

SELECT * FROM WORKER_20BRS1193 WHERE WORKER_ID = ANY(SELECT WORKER_REF_ID FROM TITLE_20BRS1193 WHERE WORKER_TITLE = 'Manager');

```
SQL> SELECT * FROM WORKER_20BRS1193 WHERE WORKER_ID = ANY(SELECT WORKER_REF_ID FROM TITLE_20BRS1193 WHERE WORKER_TITLE = 'Manager');

 WORKER_ID FIRST_NAME          LAST_NAME               SALARY JOIN_DATE
---------- ------------------- ------------------- ---------- ---------
DEPARTMENT
--------------------
         1 Balasundaram        Ananth                  100000 20-FEB-14
HR

         5 Vivek               Bhati                   500000 11-JUN-14
Admin
```

14. Write an SQL query to show only odd rows from a table.

SELECT * FROM WORKER_20BRS1193 WHERE MOD(WORKER_ID, 2) != 0;

```
SQL> SELECT * FROM WORKER_20BRS1193 WHERE MOD(WORKER_ID, 2) != 0;

 WORKER_ID FIRST_NAME          LAST_NAME               SALARY JOIN_DATE
---------- ------------------- ------------------- ---------- ---------
DEPARTMENT
--------------------
         1 Balasundaram        Ananth                  100000 20-FEB-14
HR

         3 Vishal              Singhal                 300000 20-FEB-14
HR

         5 Vivek               Bhati                   500000 11-JUN-14
Admin


 WORKER_ID FIRST_NAME          LAST_NAME               SALARY JOIN_DATE
---------- ------------------- ------------------- ---------- ---------
DEPARTMENT
--------------------
         7 Satish              Kumar                    75000 20-JAN-14
Account
```

15. Write an SQL query to show only even rows from a table.

SELECT * FROM WORKER_20BRS1193 WHERE MOD(WORKER_ID, 2) = 0;

```
SQL> SELECT * FROM WORKER_20BRS1193 WHERE MOD(WORKER_ID, 2) = 0;

 WORKER_ID FIRST_NAME          LAST_NAME               SALARY JOIN_DATE
---------- ------------------- ------------------- ---------- ---------
DEPARTMENT
--------------------
         2 Kumar               Verma                    80000 11-JUN-14
Admin

         4 Amitabh             Singh                   500000 20-FEB-14
Admin

         6 Vipul               Diwan                   200000 11-JUN-14
Account


 WORKER_ID FIRST_NAME          LAST_NAME               SALARY JOIN_DATE
---------- ------------------- ------------------- ---------- ---------
DEPARTMENT
--------------------
         8 Rishabh             Chauhan                  90000 11-APR-14
Admin
```

16. Write an SQL query to clone a new table from another table.

SELECT * FROM (SELECT * FROM WORKER_20BRS1193) NEW_TABLE;

```
SQL> SELECT * FROM (SELECT * FROM WORKER_20BRS1193) NEW_TABLE;

 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         1 Balasundaram         Ananth                   100000 20-FEB-14
HR

         2 Kumar                Verma                     80000 11-JUN-14
Admin

         3 Vishal               Singhal                  300000 20-FEB-14
HR


 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         4 Amitabh              Singh                    500000 20-FEB-14
Admin

         5 Vivek                Bhati                    500000 11-JUN-14
Admin

         6 Vipul                Diwan                    200000 11-JUN-14
Account


 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         7 Satish               Kumar                     75000 20-JAN-14
Account

         8 Rishabh              Chauhan                   90000 11-APR-14
Admin


8 rows selected.
```

17. Write an SQL query to show the current date and time.

SELECT SYSDATE FROM DUAL;

```
SQL> SELECT SYSDATE FROM DUAL;

SYSDATE
---------
05-OCT-21
```

18. Write an SQL query to show the top 10 records of a table.

SELECT FIRST_NAME FROM WORKER_20BRS1193 WHERE ROWNUM <= 10;

```
SQL> SELECT FIRST_NAME FROM WORKER_20BRS1193 WHERE ROWNUM <= 10;

FIRST_NAME
--------------------
Balasundaram
Kumar
Vishal
Amitabh
Vivek
Vipul
Satish
Rishabh

8 rows selected.
```

19. Write an SQL query to fetch the list of employees with the same salary.

SELECT FIRST_NAME, SALARY FROM WORKER_20BRS1193 WHERE SALARY IN (SELECT SALARY FROM WORKER_20BRS1193 GROUP BY SALARY HAVING COUNT(*) > 1);

```
SQL> SELECT FIRST_NAME, SALARY FROM WORKER_20BRS1193 WHERE SALARY IN (SELECT SALARY FROM WORKER_20BRS1193 GROUP BY SALARY HAVING COUNT(*) > 1);

FIRST_NAME           SALARY
-------------------- ----------
Amitabh              500000
Vivek                500000
```

20. Write an SQL query to show the second highest salary from a table.

SELECT MAX(SALARY) AS SECOND_HIGHEST FROM WORKER_20BRS1193 WHERE SALARY <(SELECT MAX(SALARY) FROM WORKER_20BRS1193);

```
SQL> SELECT MAX(SALARY) AS SECOND_HIGHEST FROM WORKER_20BRS1193 WHERE SALARY <(SELECT MAX(SALARY) FROM WORKER_20BRS1193);

SECOND_HIGHEST
--------------
       300000
```

21. Write an SQL query to print the name of employees having the highest salary in each department.

SELECT DEPARTMENT, MAX(SALARY) AS HIGHEST_SALARY FROM WORKER_20BRS1193 GROUP BY DEPARTMENT;

```
SQL> SELECT DEPARTMENT, MAX(SALARY) AS HIGHEST_SALARY FROM WORKER_20BRS1193 GROUP BY DEPARTMENT;

DEPARTMENT           HIGHEST_SALARY
-------------------- --------------
Admin                        500000
Account                      200000
HR                           300000
```

22. Write an SQL query to fetch departments along with the total salaries paid for each of them.

SELECT DEPARTMENT, SUM(SALARY) AS TOTAL_SALARY FROM WORKER_20BRS1193 GROUP BY DEPARTMENT;

```
SQL> SELECT DEPARTMENT, SUM(SALARY) AS TOTAL_SALARY FROM WORKER_20BRS1193 GROUP BY DEPARTMENT;

DEPARTMENT           TOTAL_SALARY
-------------------- ------------
Admin                     1170000
Account                    275000
HR                         400000
```

23. Write an SQL query to fetch the names of workers who earn the highest salary.

SELECT FIRST_NAME, LAST_NAME, SALARY FROM WORKER_20BRS1193 WHERE SALARY = (SELECT MAX(SALARY) FROM WORKER_20BRS1193);

```
SQL> SELECT FIRST_NAME, LAST_NAME, SALARY FROM WORKER_20BRS1193 WHERE SALARY = (SELECT MAX(SALARY) FROM WORKER_20BRS1193);

FIRST_NAME           LAST_NAME            SALARY
-------------------- -------------------- ---------
Amitabh              Singh                500000
Vivek                Bhati                500000
```

24. Write an SQL query to fetch the first 50% records from a table.

SELECT * FROM WORKER_20BRS1193 FETCH FIRST 4 ROWS ONLY;

```
SQL> SELECT * FROM WORKER_20BRS1193 FETCH FIRST 4 ROWS ONLY;

 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         1 Balasundaram         Ananth                   100000 20-FEB-14
HR

         2 Kumar                Verma                     80000 11-JUN-14
Admin

         3 Vishal               Singhal                  300000 20-FEB-14
HR


 WORKER_ID FIRST_NAME           LAST_NAME                SALARY JOIN_DATE
---------- -------------------- -------------------- ---------- ---------
DEPARTMENT
--------------------
         4 Amitabh              Singh                    500000 20-FEB-14
Admin
```

25. Write an SQL query to show all departments along with the number of people in there.

SELECT COUNT(*), DEPARTMENT FROM WORKER_20BRS1193 GROUP BY DEPARTMENT;

```
SQL> SELECT COUNT(*), DEPARTMENT FROM WORKER_20BRS1193 GROUP BY DEPARTMENT;

  COUNT(*) DEPARTMENT
---------- --------------------
         4 Admin
         2 Account
         2 HR
```