# DBMS LAB-07(06-02-2025)

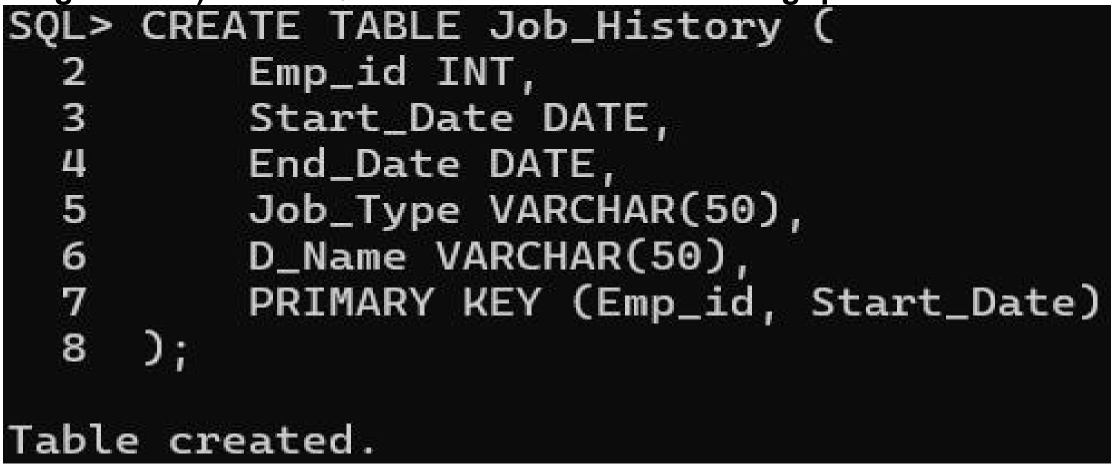
**Name-** Bhavya Shrivastava **Roll No-** 23052071 **Section-** CSE-15

**Q1. Create the following table and insert the values.**

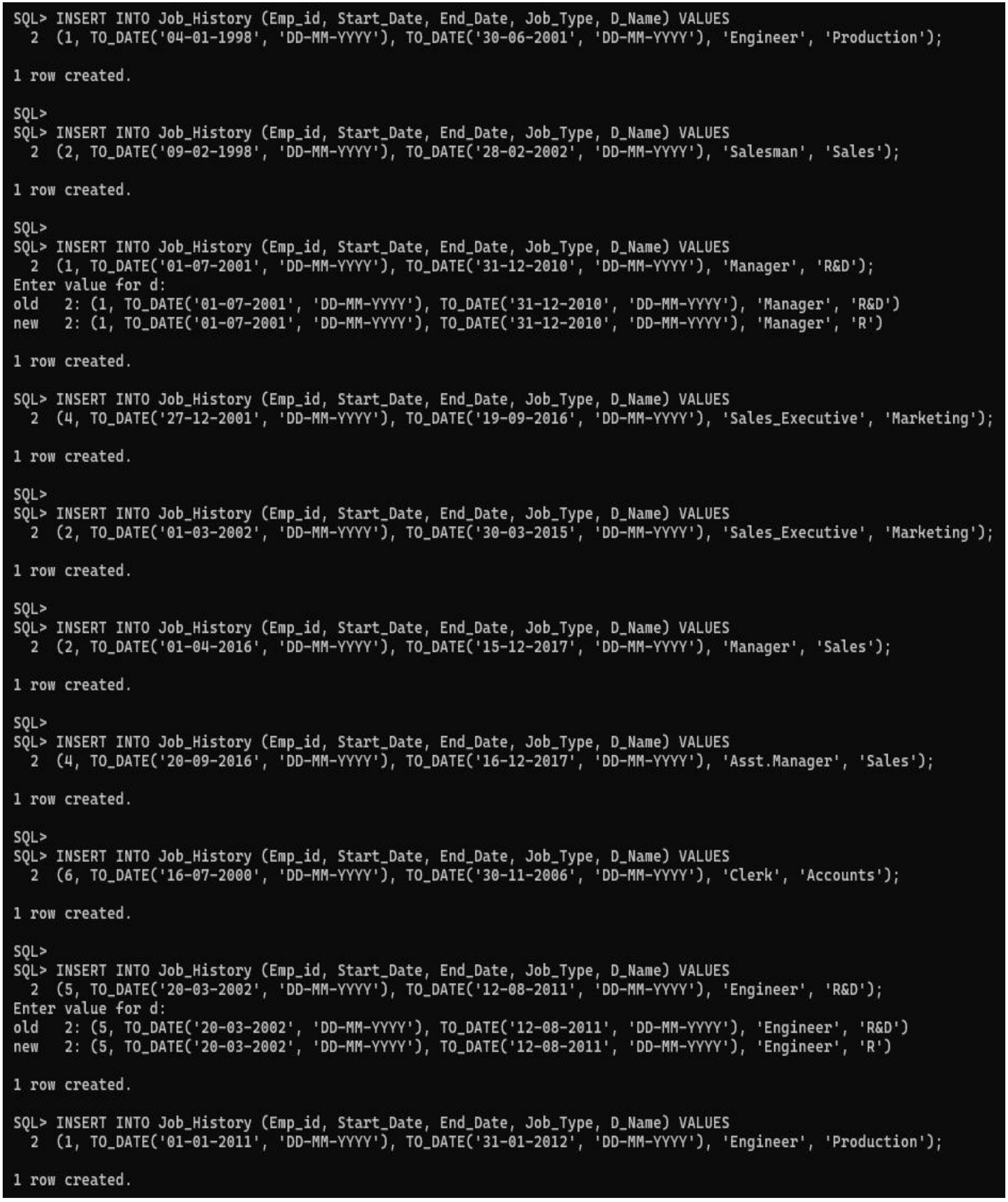
**Job_History**

| Emp_id | Start_Date | End_Date | Job_Type | D_Name |
|---|---|---|---|---|
| 1 | 4-Jan-1998 | 30-Jun-2001 | Engineer | Production |
| 2 | 9-Feb-1998 | 28-Feb-2002 | Salesman | Sales |
| 1 | 1-Jul-2001 | 31-Dec-2010 | Manager | R&D |
| 4 | 27-Dec-2001 | 19-Sep-2016 | Sales_Executive | Marketing |
| 2 | 1-Mar-2002 | 30-Mar-2015 | Sales_Executive | Marketing |
| 2 | 1-Apr-2016 | 15-Dec-2017 | Manager | Sales |
| 4 | 20-Sep-2016 | 16-Dec-2017 | Asst.Manager | Sales |
| 6 | 16-Jul-2000 | 30-Nov-2006 | Clerk | Accounts |
| 5 | 20-Mar-2002 | 12-Aug-2011 | Engineer | R&D |
| 1 | 1-Jan-2011 | 31-Jan-2012 | Engineer | Production |

**Using the above Job_History table and the Employee table (of assignment 2) write SQL statements for the following queries.**

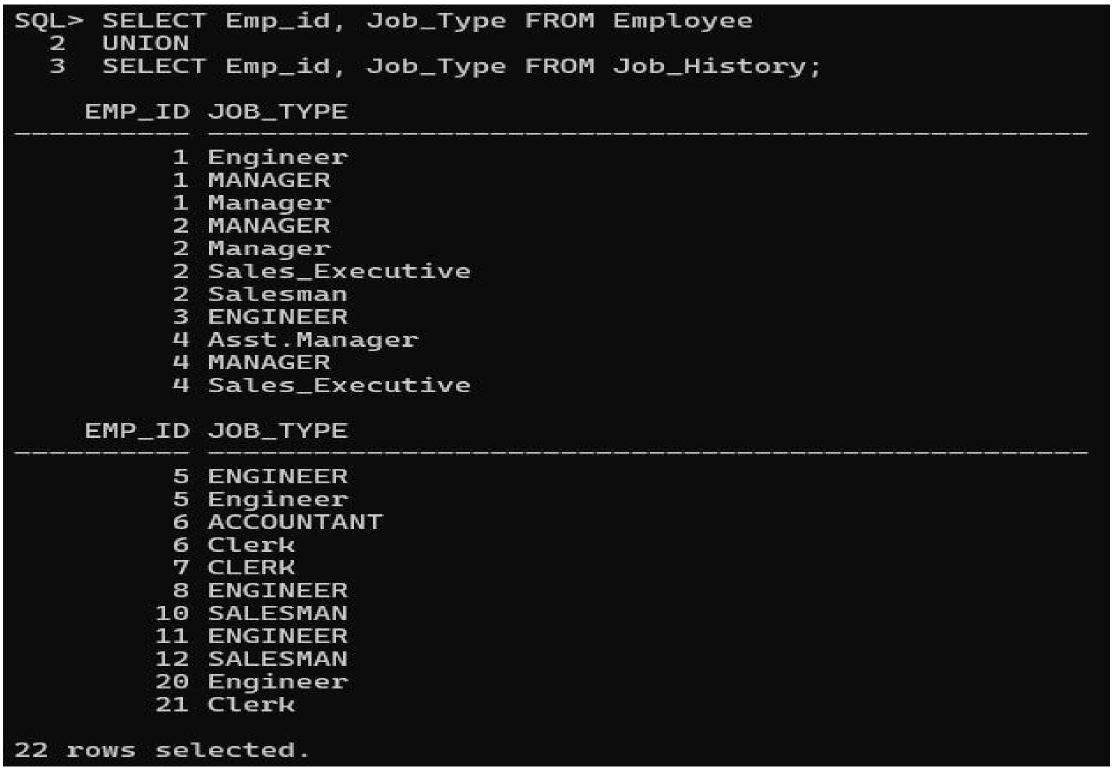


```
SQL> CREATE TABLE Job_History (
  2       Emp_id INT,
  3       Start_Date DATE,
  4       End_Date DATE,
  5       Job_Type VARCHAR(50),
  6       D_Name VARCHAR(50),
  7       PRIMARY KEY (Emp_id, Start_Date)
  8  );

Table created.
```



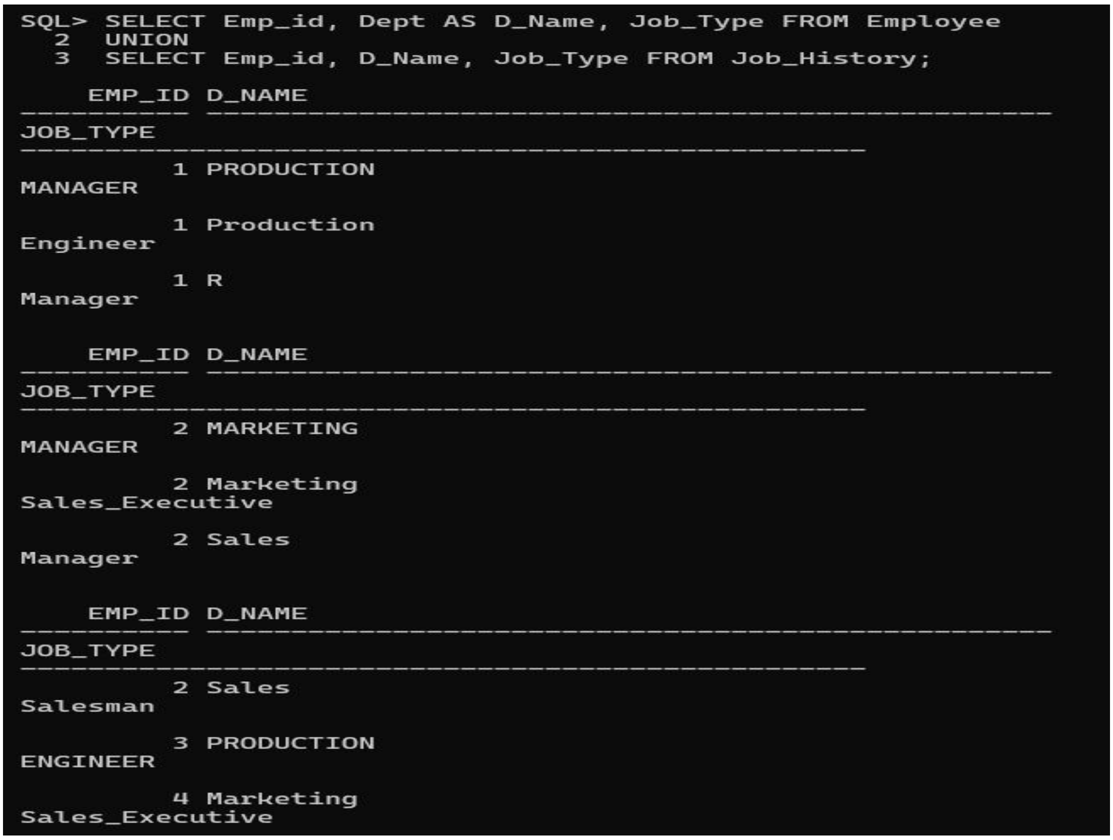
```
SQL> INSERT INTO Job_History (Emp_id, Start_Date, End_Date, Job_Type, D_Name) VALUES
  2  (1, TO_DATE('04-01-1998', 'DD-MM-YYYY'), TO_DATE('30-06-2001', 'DD-MM-YYYY'), 'Engineer', 'Production');

1 row created.

SQL>
SQL> INSERT INTO Job_History (Emp_id, Start_Date, End_Date, Job_Type, D_Name) VALUES
  2  (2, TO_DATE('09-02-1998', 'DD-MM-YYYY'), TO_DATE('28-02-2002', 'DD-MM-YYYY'), 'Salesman', 'Sales');

1 row created.

SQL>
SQL> INSERT INTO Job_History (Emp_id, Start_Date, End_Date, Job_Type, D_Name) VALUES
  2  (1, TO_DATE('01-07-2001', 'DD-MM-YYYY'), TO_DATE('31-12-2010', 'DD-MM-YYYY'), 'Manager', 'R&D');
Enter value for d:
old   2: (1, TO_DATE('01-07-2001', 'DD-MM-YYYY'), TO_DATE('31-12-2010', 'DD-MM-YYYY'), 'Manager', 'R&D')
new   2: (1, TO_DATE('01-07-2001', 'DD-MM-YYYY'), TO_DATE('31-12-2010', 'DD-MM-YYYY'), 'Manager', 'R')

1 row created.

SQL> INSERT INTO Job_History (Emp_id, Start_Date, End_Date, Job_Type, D_Name) VALUES
  2  (4, TO_DATE('27-12-2001', 'DD-MM-YYYY'), TO_DATE('19-09-2016', 'DD-MM-YYYY'), 'Sales_Executive', 'Marketing');

1 row created.

SQL>
SQL> INSERT INTO Job_History (Emp_id, Start_Date, End_Date, Job_Type, D_Name) VALUES
  2  (2, TO_DATE('01-03-2002', 'DD-MM-YYYY'), TO_DATE('30-03-2015', 'DD-MM-YYYY'), 'Sales_Executive', 'Marketing');

1 row created.

SQL>
SQL> INSERT INTO Job_History (Emp_id, Start_Date, End_Date, Job_Type, D_Name) VALUES
  2  (2, TO_DATE('01-04-2016', 'DD-MM-YYYY'), TO_DATE('15-12-2017', 'DD-MM-YYYY'), 'Manager', 'Sales');

1 row created.

SQL>
SQL> INSERT INTO Job_History (Emp_id, Start_Date, End_Date, Job_Type, D_Name) VALUES
  2  (4, TO_DATE('20-09-2016', 'DD-MM-YYYY'), TO_DATE('16-12-2017', 'DD-MM-YYYY'), 'Asst.Manager', 'Sales');

1 row created.

SQL>
SQL> INSERT INTO Job_History (Emp_id, Start_Date, End_Date, Job_Type, D_Name) VALUES
  2  (6, TO_DATE('16-07-2000', 'DD-MM-YYYY'), TO_DATE('30-11-2006', 'DD-MM-YYYY'), 'Clerk', 'Accounts');

1 row created.

SQL>
SQL> INSERT INTO Job_History (Emp_id, Start_Date, End_Date, Job_Type, D_Name) VALUES
  2  (5, TO_DATE('20-03-2002', 'DD-MM-YYYY'), TO_DATE('12-08-2011', 'DD-MM-YYYY'), 'Engineer', 'R&D');
Enter value for d:
old   2: (5, TO_DATE('20-03-2002', 'DD-MM-YYYY'), TO_DATE('12-08-2011', 'DD-MM-YYYY'), 'Engineer', 'R&D')
new   2: (5, TO_DATE('20-03-2002', 'DD-MM-YYYY'), TO_DATE('12-08-2011', 'DD-MM-YYYY'), 'Engineer', 'R')

1 row created.

SQL> INSERT INTO Job_History (Emp_id, Start_Date, End_Date, Job_Type, D_Name) VALUES
  2  (1, TO_DATE('01-01-2011', 'DD-MM-YYYY'), TO_DATE('31-01-2012', 'DD-MM-YYYY'), 'Engineer', 'Production');

1 row created.
```

**Q2. Display the current and previous (if any) job_types of all employees. (use union/union all)**

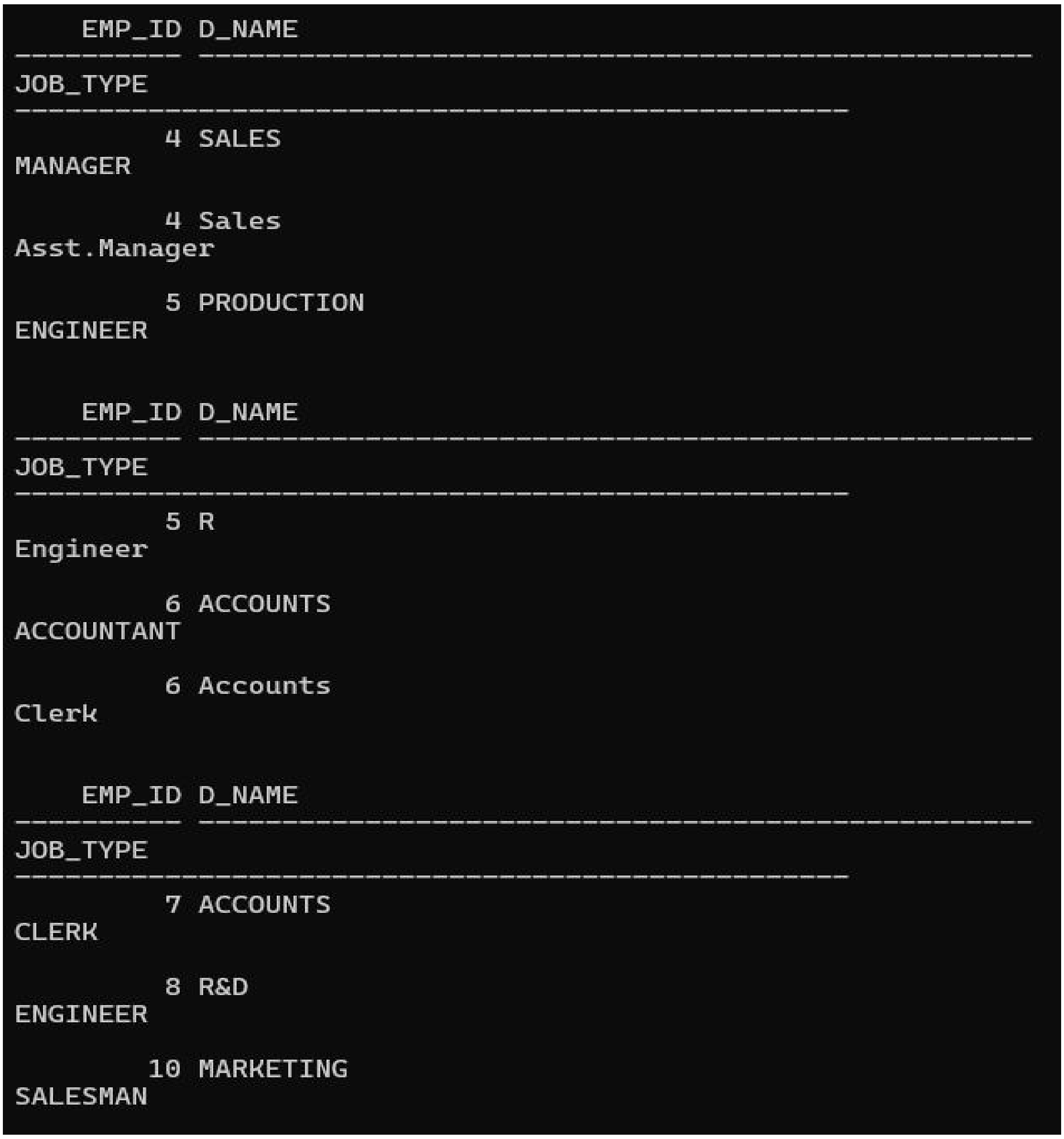


```
SQL> SELECT Emp_id, Job_Type FROM Employee
  2  UNION
  3  SELECT Emp_id, Job_Type FROM Job_History;

    EMP_ID JOB_TYPE
---------- --------------------------------------------------
         1 Engineer
         1 MANAGER
         1 Manager
         2 MANAGER
         2 Manager
         2 Sales_Executive
         2 Salesman
         3 ENGINEER
         4 Asst.Manager
         4 MANAGER
         4 Sales_Executive

    EMP_ID JOB_TYPE
---------- --------------------------------------------------
         5 ENGINEER
         5 Engineer
         6 ACCOUNTANT
         6 Clerk
         7 CLERK
         8 ENGINEER
        10 SALESMAN
        11 ENGINEER
        12 SALESMAN
        20 Engineer
        21 Clerk

22 rows selected.
```

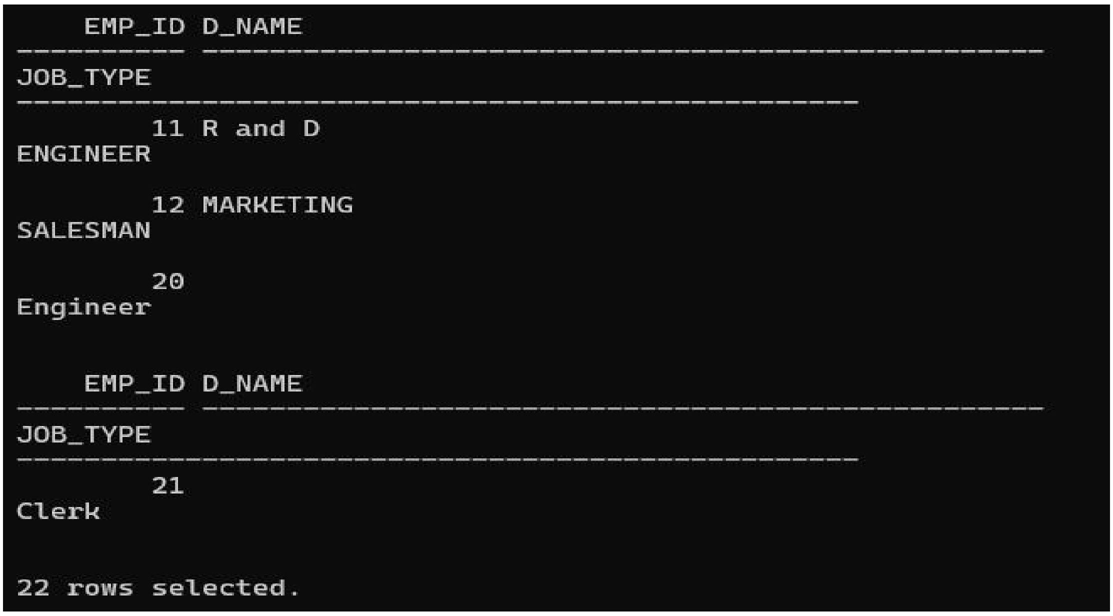
**Q3. Display the emp_id, d_name, and job_types current and previous (if any) of all employees.(use union/union all)**



```
SQL> SELECT Emp_id, Dept AS D_Name, Job_Type FROM Employee
  2  UNION
  3  SELECT Emp_id, D_Name, Job_Type FROM Job_History;

    EMP_ID D_NAME
---------- --------------------------------------------------
JOB_TYPE
--------------------------------------------------
         1 PRODUCTION
MANAGER

         1 Production
Engineer

         1 R
Manager


    EMP_ID D_NAME
---------- --------------------------------------------------
JOB_TYPE
--------------------------------------------------
         2 MARKETING
MANAGER

         2 Marketing
Sales_Executive

         2 Sales
Manager


    EMP_ID D_NAME
---------- --------------------------------------------------
JOB_TYPE
--------------------------------------------------
         2 Sales
Salesman

         3 PRODUCTION
ENGINEER

         4 Marketing
Sales_Executive
```

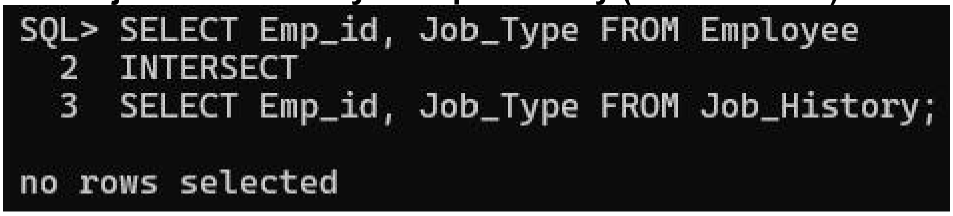


```
    EMP_ID D_NAME
---------- --------------------------------------------------
JOB_TYPE
--------------------------------------------------
         4 SALES
MANAGER

         4 Sales
Asst.Manager

         5 PRODUCTION
ENGINEER


    EMP_ID D_NAME
---------- --------------------------------------------------
JOB_TYPE
--------------------------------------------------
         5 R
Engineer

         6 ACCOUNTS
ACCOUNTANT

         6 Accounts
Clerk


    EMP_ID D_NAME
---------- --------------------------------------------------
JOB_TYPE
--------------------------------------------------
         7 ACCOUNTS
CLERK

         8 R&D
ENGINEER

        10 MARKETING
SALESMAN
```



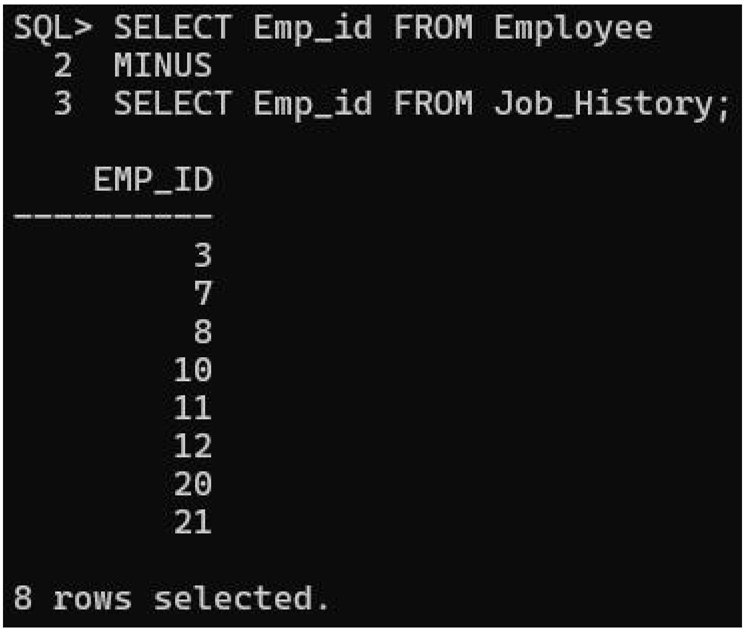
```
    EMP_ID D_NAME
---------- --------------------------------------------------
JOB_TYPE
--------------------------------------------------
        11 R and D
ENGINEER

        12 MARKETING
SALESMAN

        20
Engineer


    EMP_ID D_NAME
---------- --------------------------------------------------
JOB_TYPE
--------------------------------------------------
        21
Clerk


22 rows selected.
```

**Q4. Display the emp_id and the job_type of employees who currently have a job title that they held previously.(use intersect)**



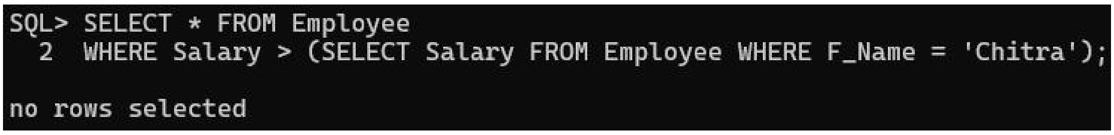
```
SQL> SELECT Emp_id, Job_Type FROM Employee
  2  INTERSECT
  3  SELECT Emp_id, Job_Type FROM Job_History;

no rows selected
```

**Q5. Find the employees who have not changed their job for once.(use minus)**



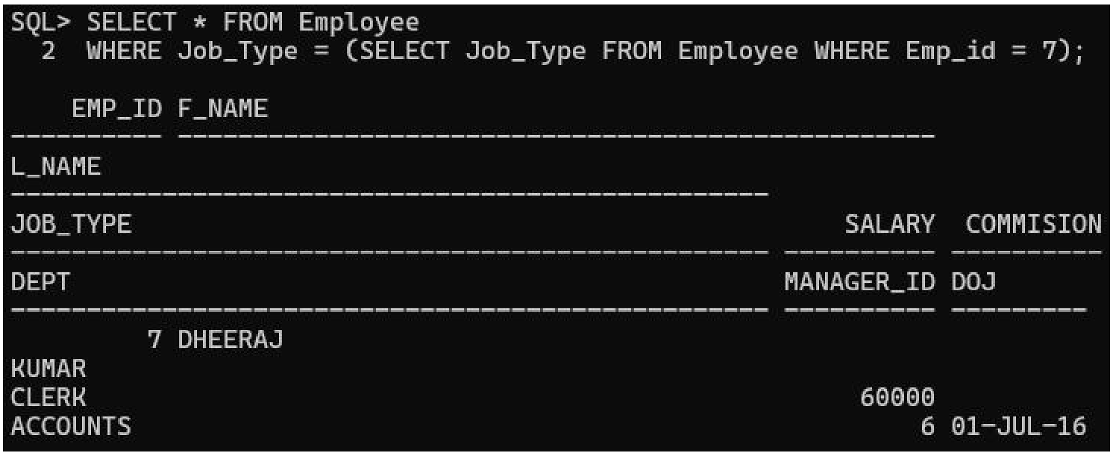
```
SQL> SELECT Emp_id FROM Employee
  2  MINUS
  3  SELECT Emp_id FROM Job_History;

    EMP_ID
----------
         3
         7
         8
        10
        11
        12
        20
        21

8 rows selected.
```

**Q6. Find the employees who earn more than Chitra. (use single-row subquery)**



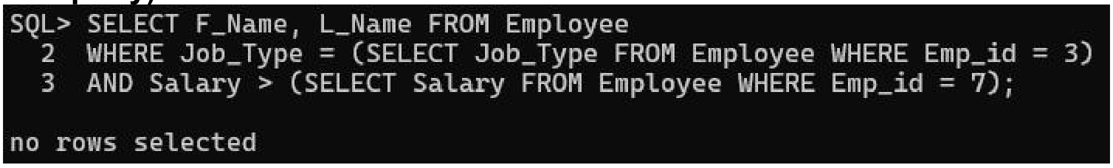
```
SQL> SELECT * FROM Employee
  2  WHERE Salary > (SELECT Salary FROM Employee WHERE F_Name = 'Chitra');

no rows selected
```

**Q7. Find the employees details who have the same job_type as of emp_id 7. (use single-row subquery)**



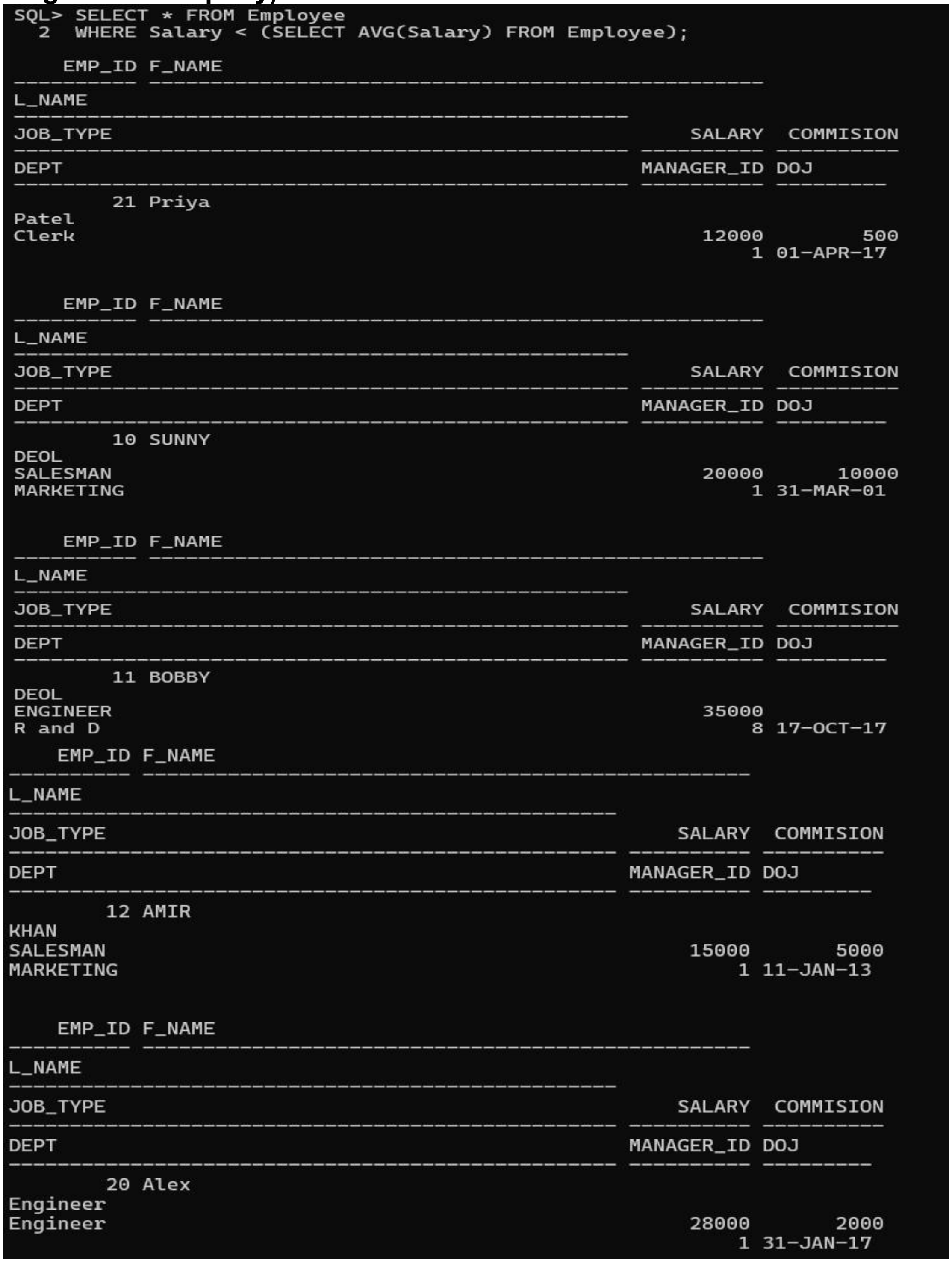
```
SQL> SELECT * FROM Employee
  2  WHERE Job_Type = (SELECT Job_Type FROM Employee WHERE Emp_id = 7);

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         7 DHEERAJ
KUMAR
CLERK                                                   60000
ACCOUNTS                                                    6 01-JUL-16
```

**Q8.Display the employee names whose job is the same as employee 3 and earn more than employee 7. (use single-row subquery)**



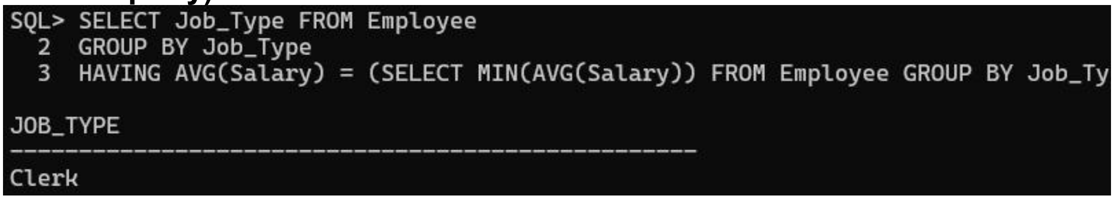
```
SQL> SELECT F_Name, L_Name FROM Employee
  2  WHERE Job_Type = (SELECT Job_Type FROM Employee WHERE Emp_id = 3)
  3  AND Salary > (SELECT Salary FROM Employee WHERE Emp_id = 7);

no rows selected
```

**Q9. Display the employees earning less than the average salary. (use single-row subquery)**



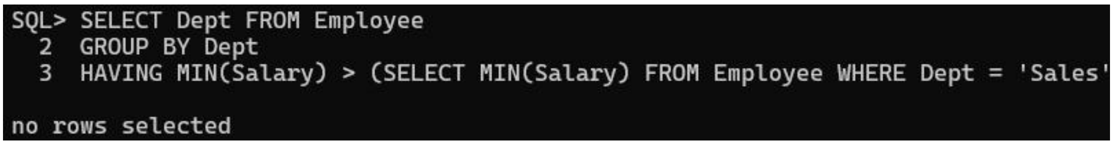
```
SQL> SELECT * FROM Employee
  2  WHERE Salary < (SELECT AVG(Salary) FROM Employee);

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        21 Priya
Patel
Clerk                                                   12000        500
                                                            1 01-APR-17


    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        10 SUNNY
DEOL
SALESMAN                                                20000      10000
MARKETING                                                   1 31-MAR-01


    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        11 BOBBY
DEOL
ENGINEER                                                35000
R and D                                                     8 17-OCT-17
    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        12 AMIR
KHAN
SALESMAN                                                15000       5000
MARKETING                                                   1 11-JAN-13


    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        20 Alex
Engineer
Engineer                                                28000       2000
                                                            1 31-JAN-17
```

**Q10. Find the job_type with the lowest average salary. (use single-rowsubquery)**



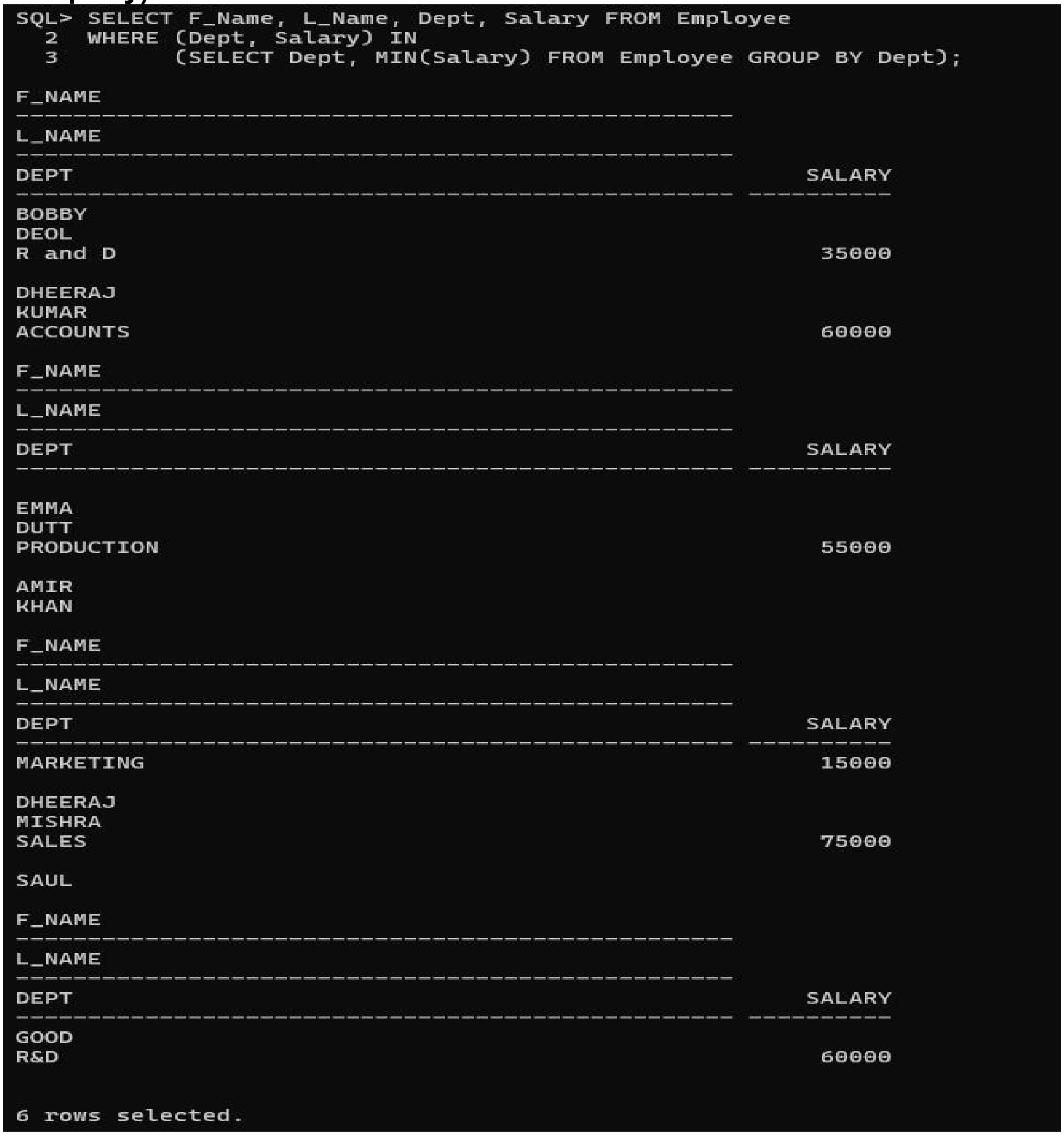
```
SQL> SELECT Job_Type FROM Employee
  2  GROUP BY Job_Type
  3  HAVING AVG(Salary) = (SELECT MIN(AVG(Salary)) FROM Employee GROUP BY Job_Ty

JOB_TYPE
--------------------------------------------------
Clerk
```

**Q11. Display all the department names whose minimum salary is greater than the minimum salary of the Sales department.**



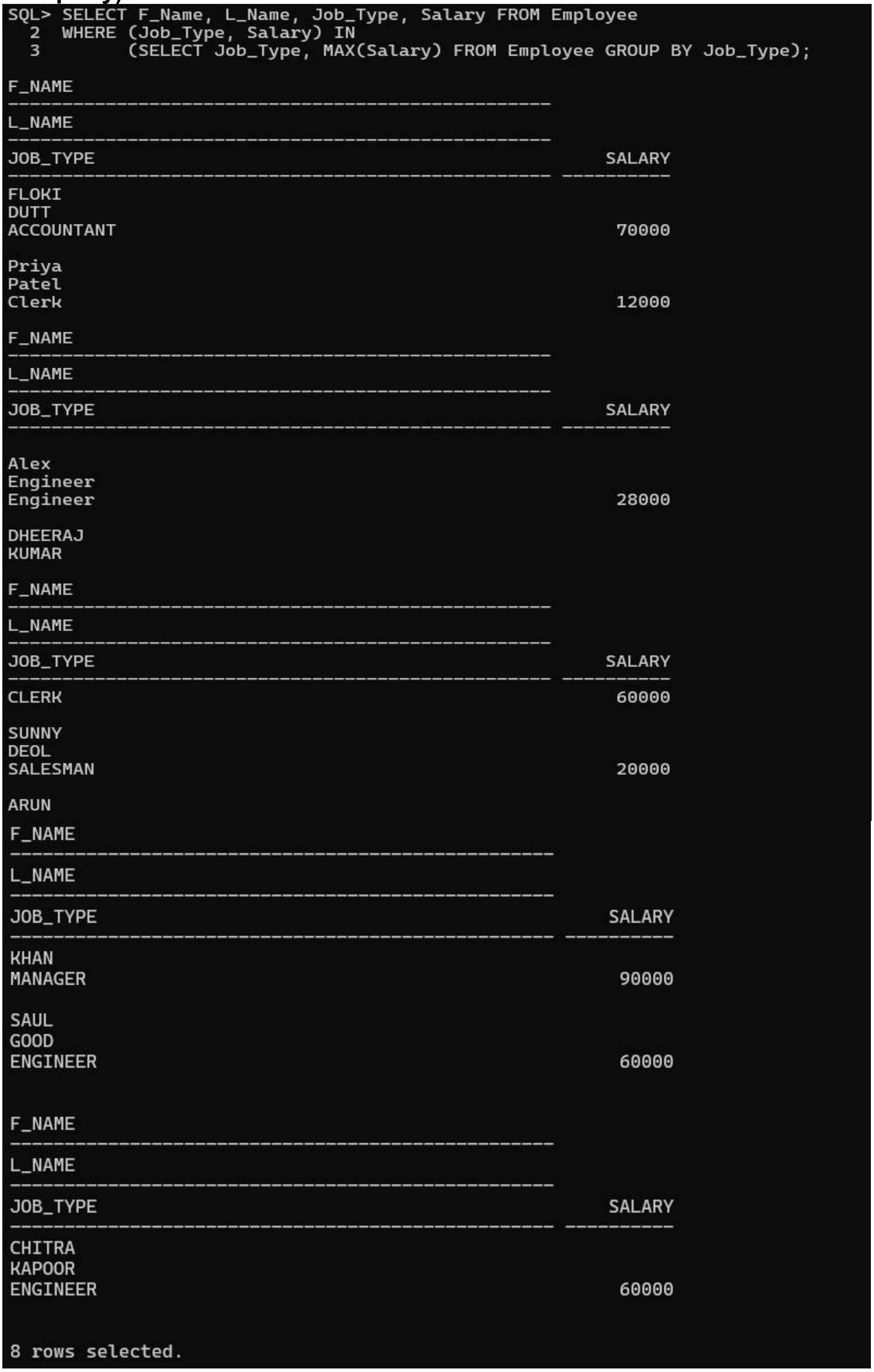
```
SQL> SELECT Dept FROM Employee
  2  GROUP BY Dept
  3  HAVING MIN(Salary) > (SELECT MIN(Salary) FROM Employee WHERE Dept = 'Sales'

no rows selected
```

**Q12. Select the employee names, department and salary who are the lowest earners of their corresponding department (use multi-row subquery).**



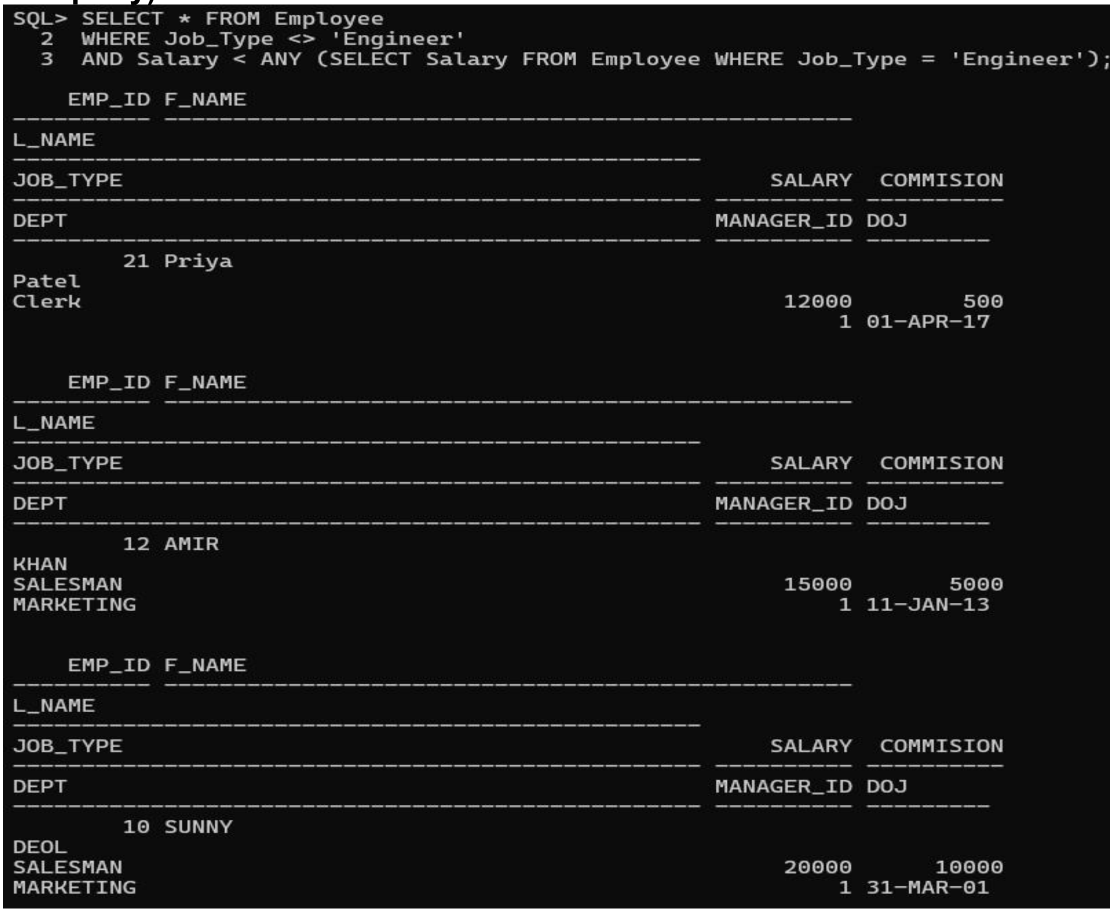
```
SQL> SELECT F_Name, L_Name, Dept, Salary FROM Employee
  2  WHERE (Dept, Salary) IN
  3        (SELECT Dept, MIN(Salary) FROM Employee GROUP BY Dept);

F_NAME
--------------------------------------------------
L_NAME
--------------------------------------------------
DEPT                                                   SALARY
-------------------------------------------------- ----------
BOBBY
DEOL
R and D                                                 35000

DHEERAJ
KUMAR
ACCOUNTS                                                60000

F_NAME
--------------------------------------------------
L_NAME
--------------------------------------------------
DEPT                                                   SALARY
-------------------------------------------------- ----------

EMMA
DUTT
PRODUCTION                                              55000

AMIR
KHAN

F_NAME
--------------------------------------------------
L_NAME
--------------------------------------------------
DEPT                                                   SALARY
-------------------------------------------------- ----------
MARKETING                                               15000

DHEERAJ
MISHRA
SALES                                                   75000

SAUL

F_NAME
--------------------------------------------------
L_NAME
--------------------------------------------------
DEPT                                                   SALARY
-------------------------------------------------- ----------
GOOD
R&D                                                     60000


6 rows selected.
```

**Q13. Find the highest earners of each job_type.(use multi-row subquery).**



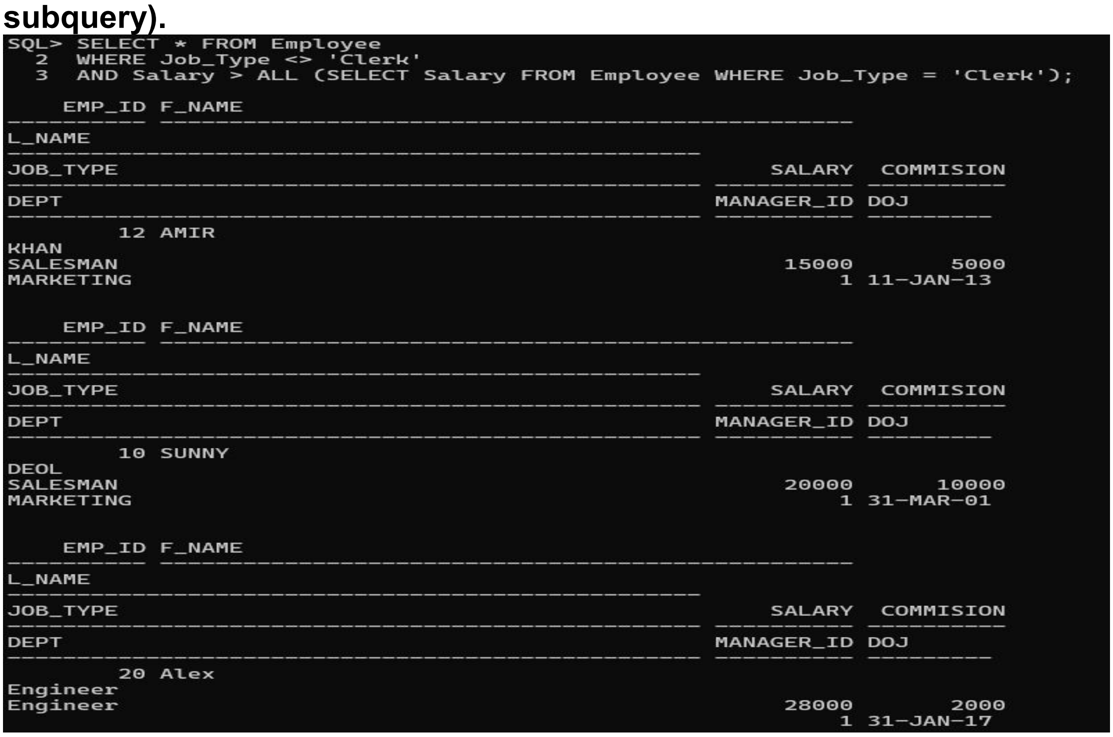
```
SQL> SELECT F_Name, L_Name, Job_Type, Salary FROM Employee
  2  WHERE (Job_Type, Salary) IN
  3        (SELECT Job_Type, MAX(Salary) FROM Employee GROUP BY Job_Type);

F_NAME
--------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY
-------------------------------------------------- ----------
FLOKI
DUTT
ACCOUNTANT                                              70000

Priya
Patel
Clerk                                                   12000

F_NAME
--------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY
-------------------------------------------------- ----------

Alex
Engineer
Engineer                                                28000

DHEERAJ
KUMAR

F_NAME
--------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY
-------------------------------------------------- ----------
CLERK                                                   60000

SUNNY
DEOL
SALESMAN                                                20000

ARUN
F_NAME
--------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY
-------------------------------------------------- ----------
KHAN
MANAGER                                                 90000

SAUL
GOOD
ENGINEER                                                60000


F_NAME
--------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY
-------------------------------------------------- ----------
CHITRA
KAPOOR
ENGINEER                                                60000


8 rows selected.
```

**Q14. Display the employees who are not engineers and earn less than any engineer.(use multi-row subquery).**

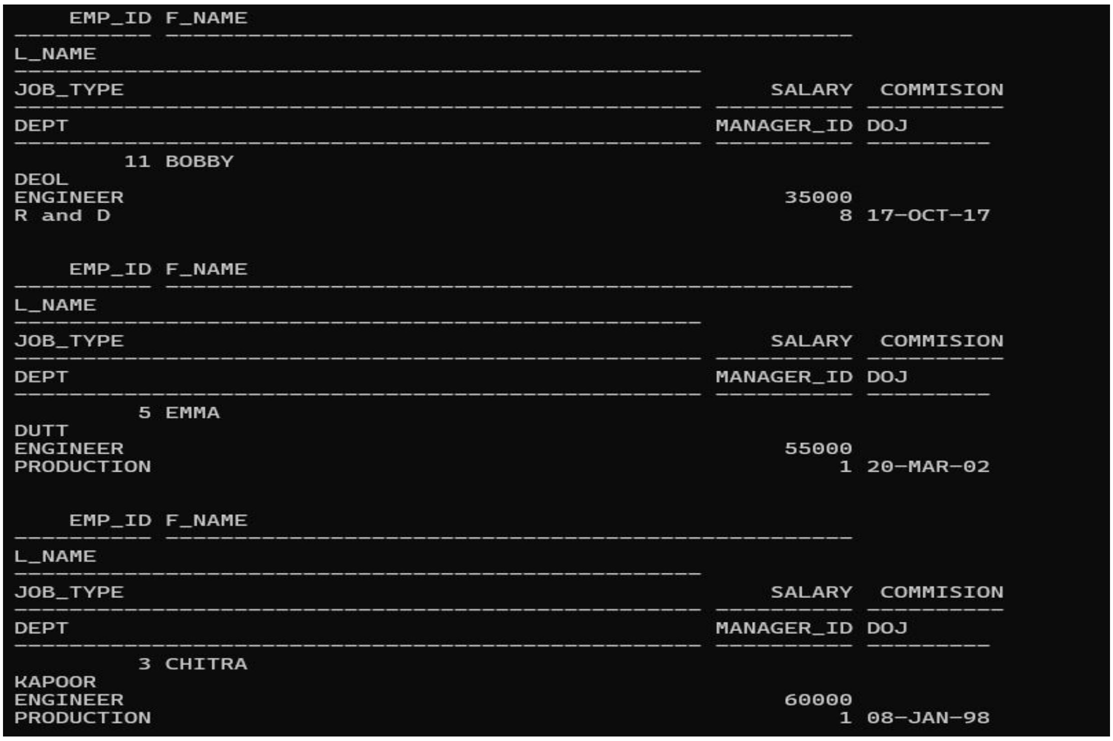


```
SQL> SELECT * FROM Employee
  2  WHERE Job_Type <> 'Engineer'
  3  AND Salary < ANY (SELECT Salary FROM Employee WHERE Job_Type = 'Engineer');

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        21 Priya
Patel
Clerk                                                   12000        500
                                                            1 01-APR-17


    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        12 AMIR
KHAN
SALESMAN                                                15000       5000
MARKETING                                                   1 11-JAN-13


    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        10 SUNNY
DEOL
SALESMAN                                                20000      10000
MARKETING                                                   1 31-MAR-01
```

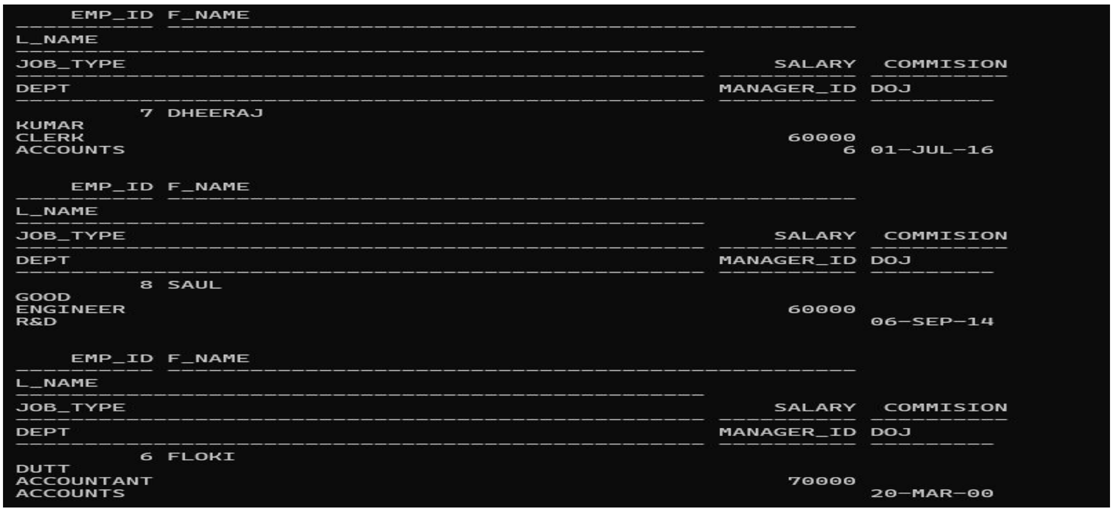
**Q15. Display the employees who are not clerks but earn more than all clerks.(use multi-row subquery).**



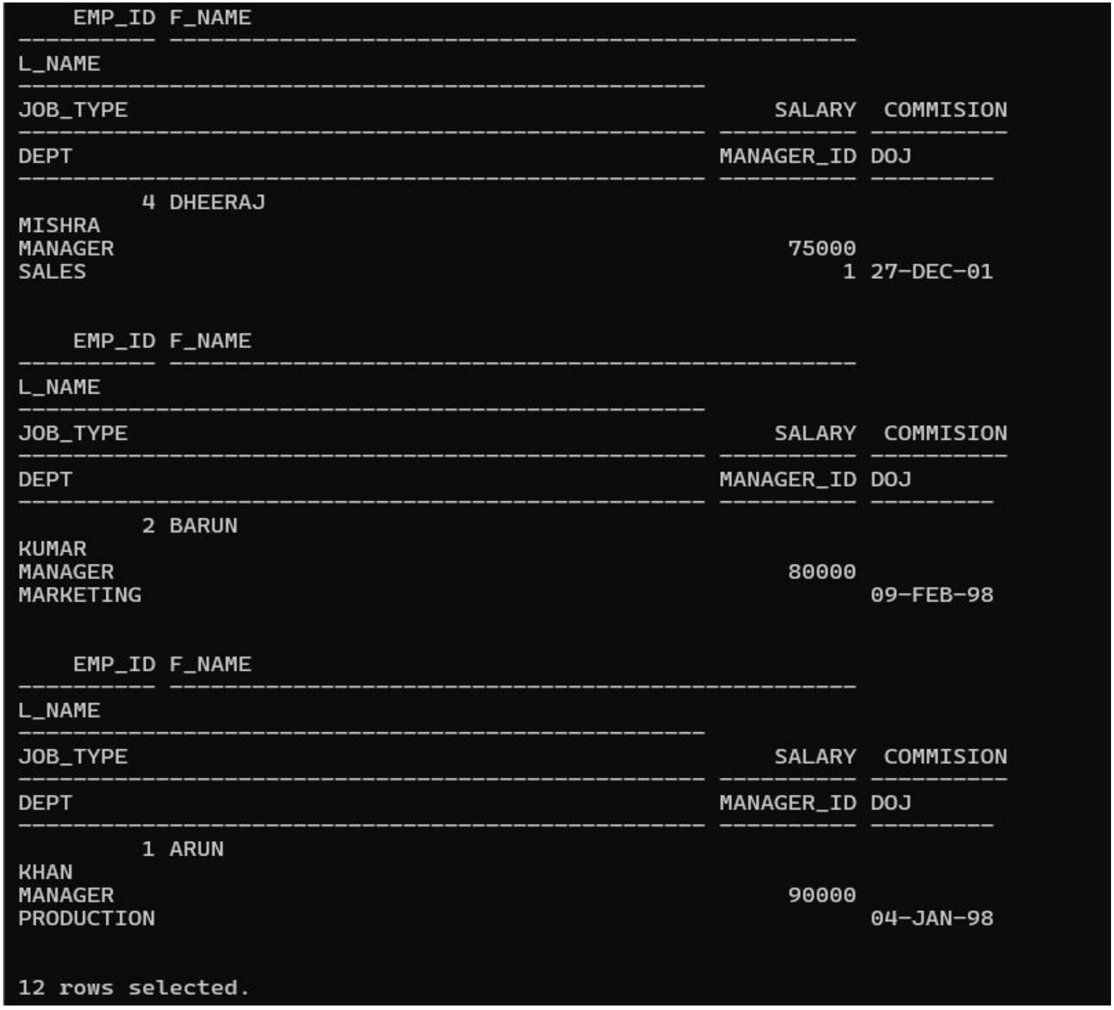
```
SQL> SELECT * FROM Employee
  2  WHERE Job_Type <> 'Clerk'
  3  AND Salary > ALL (SELECT Salary FROM Employee WHERE Job_Type = 'Clerk');
    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        12 AMIR
KHAN
SALESMAN                                                15000       5000
MARKETING                                                   1 11-JAN-13

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        10 SUNNY
DEOL
SALESMAN                                                20000      10000
MARKETING                                                   1 31-MAR-01

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        20 Alex
Engineer
Engineer                                                28000       2000
                                                            1 31-JAN-17
```



```
    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
        11 BOBBY
DEOL
ENGINEER                                                35000
R and D                                                     8 17-OCT-17

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         5 EMMA
DUTT
ENGINEER                                                55000
PRODUCTION                                                  1 20-MAR-02

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         3 CHITRA
KAPOOR
ENGINEER                                                60000
PRODUCTION                                                  1 08-JAN-98
```

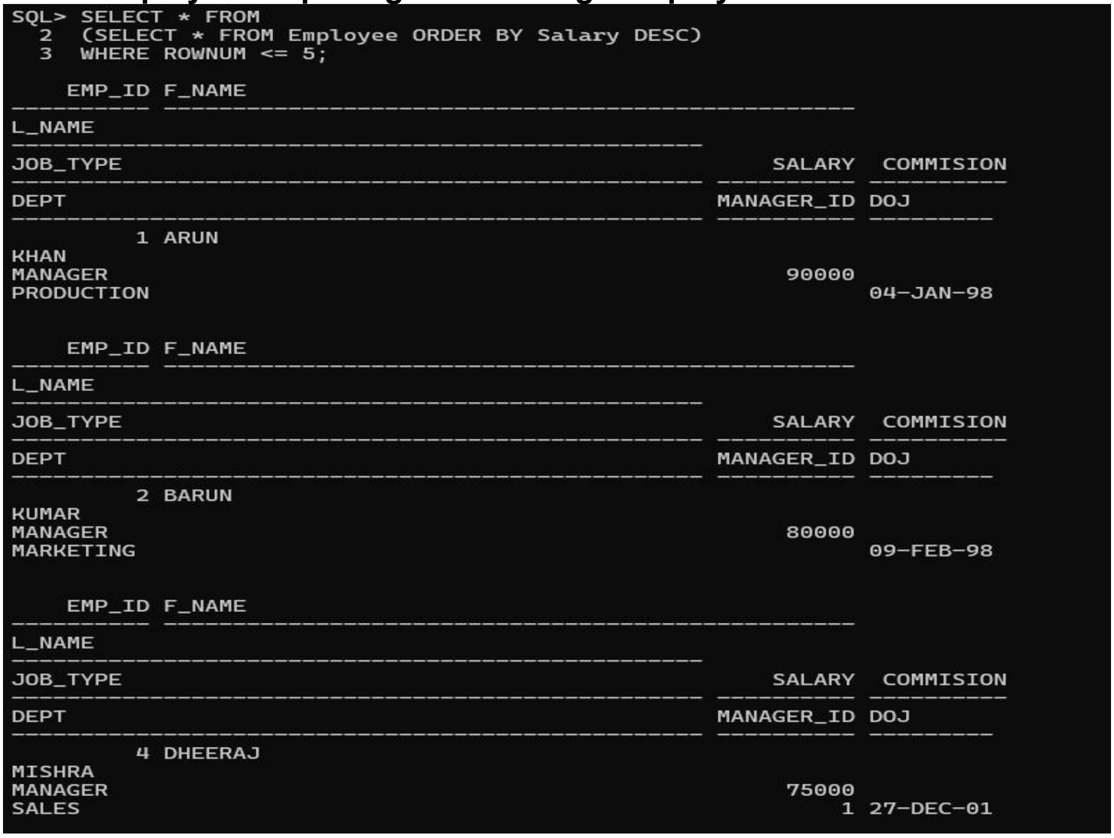


```
    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         7 DHEERAJ
KUMAR
CLERK                                                   60000
ACCOUNTS                                                    6 01-JUL-16

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         8 SAUL
GOOD
ENGINEER                                                60000
R&D                                                           06-SEP-14

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         6 FLOKI
DUTT
ACCOUNTANT                                              70000
ACCOUNTS                                                      20-MAR-00
```

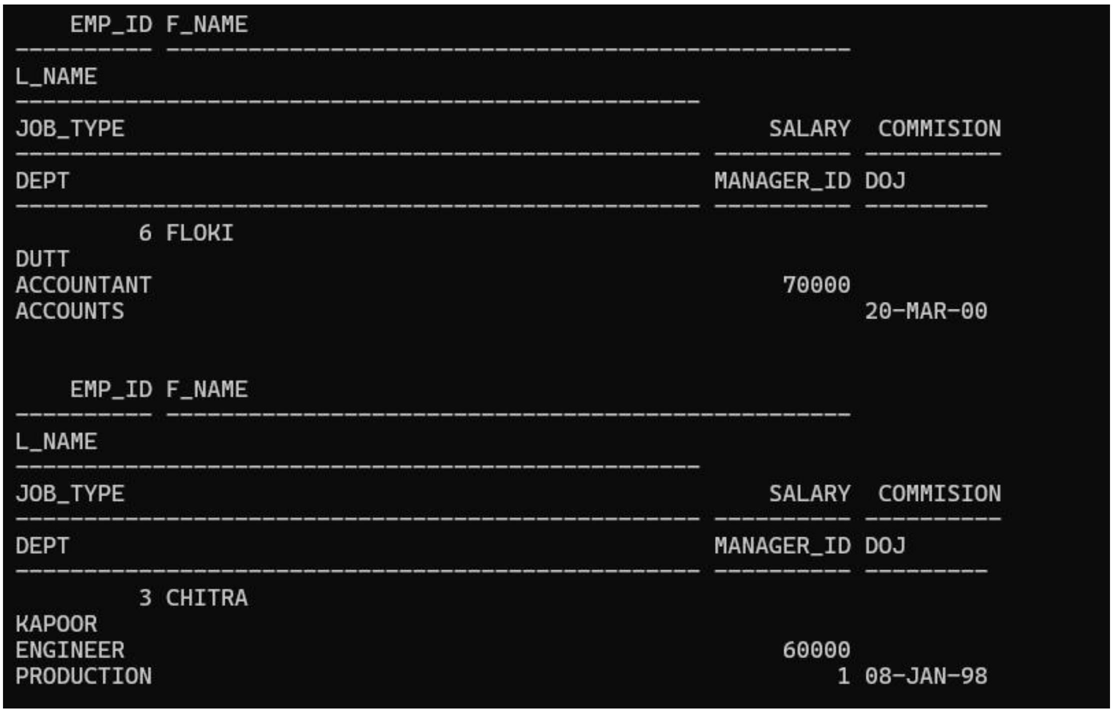


```
    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         4 DHEERAJ
MISHRA
MANAGER                                                 75000
SALES                                                       1 27-DEC-01


    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         2 BARUN
KUMAR
MANAGER                                                 80000
MARKETING                                                     09-FEB-98


    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         1 ARUN
KHAN
MANAGER                                                 90000
PRODUCTION                                                    04-JAN-98


12 rows selected.
```

## Q16. Display the top 5 highest earning   employees

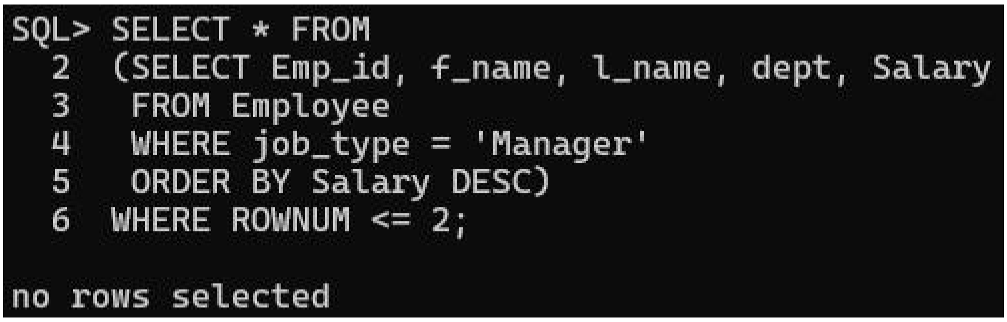


```
SQL> SELECT * FROM
  2  (SELECT * FROM Employee ORDER BY Salary DESC)
  3  WHERE ROWNUM <= 5;

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         1 ARUN
KHAN
MANAGER                                                 90000
PRODUCTION                                                    04-JAN-98

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         2 BARUN
KUMAR
MANAGER                                                 80000
MARKETING                                                     09-FEB-98

    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         4 DHEERAJ
MISHRA
MANAGER                                                 75000
SALES                                                       1 27-DEC-01
```



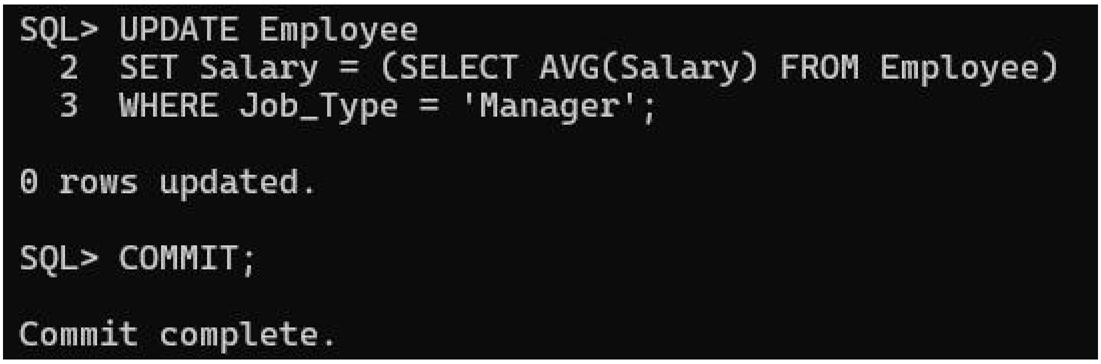
```
    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         6 FLOKI
DUTT
ACCOUNTANT                                              70000
ACCOUNTS                                                      20-MAR-00


    EMP_ID F_NAME
---------- --------------------------------------------------
L_NAME
--------------------------------------------------
JOB_TYPE                                               SALARY  COMMISION
-------------------------------------------------- ---------- ----------
DEPT                                               MANAGER_ID DOJ
-------------------------------------------------- ---------- ---------
         3 CHITRA
KAPOOR
ENGINEER                                                60000
PRODUCTION                                                  1 08-JAN-98
```

**Q17. Display the name and department of the top 2 highest paid managers.**



```
SQL> SELECT * FROM
     (SELECT Emp_id, f_name, l_name, dept, Salary
      FROM Employee
      WHERE job_type = 'Manager'
      ORDER BY Salary DESC)
     WHERE ROWNUM <= 2;

no rows selected
```

**Q18. Update the salary of the employees working as managers to the average salary of all the employees.**



```
SQL> UPDATE Employee
     SET Salary = (SELECT AVG(Salary) FROM Employee)
     WHERE Job_Type = 'Manager';

0 rows updated.

SQL> COMMIT;

Commit complete.
```