Fatima Jinnah Women University
Department of Software Engineering

LAB 7

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Reg. no: 2020-BSE-024

Section: A

Semester: Fourth

Course: Data Base (LAB)

EXAMPLES:

Cartesian Product:

```
SQL> select ename,dname from emp,dept;

ENAME      DNAME
---------- --------------
SMITH      ACCOUNTING
ALLEN      ACCOUNTING
WARD       ACCOUNTING
JONES      ACCOUNTING
MARTIN     ACCOUNTING
BLAKE      ACCOUNTING
CLARK      ACCOUNTING
SCOTT      ACCOUNTING
KING       ACCOUNTING
TURNER     ACCOUNTING
ADAMS      ACCOUNTING

ENAME      DNAME
---------- --------------
JAMES      ACCOUNTING
FORD       ACCOUNTING
MILLER     ACCOUNTING
SMITH      RESEARCH
ALLEN      RESEARCH
WARD       RESEARCH
JONES      RESEARCH
MARTIN     RESEARCH
BLAKE      RESEARCH
CLARK      RESEARCH
SCOTT      RESEARCH

ENAME      DNAME
---------- --------------
KING       RESEARCH
TURNER     RESEARCH
ADAMS      RESEARCH
JAMES      RESEARCH
FORD       RESEARCH
MILLER     RESEARCH
SMITH      SALES
ALLEN      SALES
WARD       SALES
JONES      SALES
MARTIN     SALES

ENAME      DNAME
---------- --------------
BLAKE      SALES
CLARK      SALES
SCOTT      SALES
KING       SALES
TURNER     SALES
ADAMS      SALES
JAMES      SALES
FORD       SALES
MILLER     SALES
SMITH      OPERATIONS
ALLEN      OPERATIONS
```

```
ENAME      DNAME
---------- --------------
WARD       OPERATIONS
JONES      OPERATIONS
MARTIN     OPERATIONS
BLAKE      OPERATIONS
CLARK      OPERATIONS
SCOTT      OPERATIONS
KING       OPERATIONS
TURNER     OPERATIONS
ADAMS      OPERATIONS
JAMES      OPERATIONS
FORD       OPERATIONS

ENAME      DNAME
---------- --------------
MILLER     OPERATIONS

56 rows selected.
```

Equijoin:

```
SQL> select emp.empno,emp.ename,emp.deptno,dept.deptno,dept.loc from emp, dept where emp.deptno=dept.deptno;

     EMPNO ENAME          DEPTNO     DEPTNO LOC
---------- ---------- ---------- ---------- -------------
      7782 CLARK              10         10 NEW YORK
      7839 KING               10         10 NEW YORK
      7934 MILLER             10         10 NEW YORK
      7566 JONES              20         20 DALLAS
      7902 FORD               20         20 DALLAS
      7876 ADAMS              20         20 DALLAS
      7369 SMITH              20         20 DALLAS
      7788 SCOTT              20         20 DALLAS
      7521 WARD               30         30 CHICAGO
      7844 TURNER             30         30 CHICAGO
      7499 ALLEN              30         30 CHICAGO

     EMPNO ENAME          DEPTNO     DEPTNO LOC
---------- ---------- ---------- ---------- -------------
      7900 JAMES              30         30 CHICAGO
      7698 BLAKE              30         30 CHICAGO
      7654 MARTIN             30         30 CHICAGO

14 rows selected.
```

```
SQL> select emp.empno,emp.ename,emp.deptno,dept.deptno,dept.loc from emp, dept where emp.deptno=dept.deptno and ename='JAMES';

     EMPNO ENAME          DEPTNO     DEPTNO LOC
---------- ---------- ---------- ---------- -------------
      7900 JAMES              30         30 CHICAGO
```

Using Table Alias:

```
SQL> select e.empno,e.ename,e.deptno,d.deptno,d.loc from emp e, dept d where e.deptno=d.deptno;

     EMPNO ENAME          DEPTNO     DEPTNO LOC
---------- ---------- ---------- ---------- -------------
      7782 CLARK              10         10 NEW YORK
      7839 KING               10         10 NEW YORK
      7934 MILLER             10         10 NEW YORK
      7566 JONES              20         20 DALLAS
      7902 FORD               20         20 DALLAS
      7876 ADAMS              20         20 DALLAS
      7369 SMITH              20         20 DALLAS
      7788 SCOTT              20         20 DALLAS
      7521 WARD               30         30 CHICAGO
      7844 TURNER             30         30 CHICAGO
      7499 ALLEN              30         30 CHICAGO

     EMPNO ENAME          DEPTNO     DEPTNO LOC
---------- ---------- ---------- ---------- -------------
      7900 JAMES              30         30 CHICAGO
      7698 BLAKE              30         30 CHICAGO
      7654 MARTIN             30         30 CHICAGO

14 rows selected.
```

Non Equijoin:

```
SQL> select e.ename,e.sal,j.grade from emp e,salgrade j where e.sal between j.losal and j.hisal;

ENAME             SAL      GRADE
---------- ---------- ----------
SMITH             800          1
JAMES             950          1
ADAMS            1100          1
WARD             1250          2
MARTIN           1250          2
MILLER           1300          2
TURNER           1500          3
ALLEN            1600          3
CLARK            2450          4
BLAKE            2850          4
JONES            2975          4

ENAME             SAL      GRADE
---------- ---------- ----------
SCOTT            3000          4
FORD             3000          4
KING             5000          5

14 rows selected.
```

Outer Join:

```
SQL> select e.ename,e.deptno,d.dname from emp e,dept d where e.deptno(+)=d.deptno;

ENAME          DEPTNO DNAME
---------- ---------- --------------
CLARK              10 ACCOUNTING
KING               10 ACCOUNTING
MILLER             10 ACCOUNTING
JONES              20 RESEARCH
FORD               20 RESEARCH
ADAMS              20 RESEARCH
SMITH              20 RESEARCH
SCOTT              20 RESEARCH
WARD               30 SALES
TURNER             30 SALES
ALLEN              30 SALES

ENAME          DEPTNO DNAME
---------- ---------- --------------
JAMES              30 SALES
BLAKE              30 SALES
MARTIN             30 SALES
                      OPERATIONS

15 rows selected.
```

Self Join:

```
SQL> select worker.ename ||' works for ' || manager.ename as "Employee" from emp worker,emp manager where worker.mgr=man
ager.empno;

Employee
------------------------------
FORD works for JONES
SCOTT works for JONES
TURNER works for BLAKE
ALLEN works for BLAKE
WARD works for BLAKE
JAMES works for BLAKE
MARTIN works for BLAKE
MILLER works for CLARK
ADAMS works for SCOTT
BLAKE works for KING
JONES works for KING

Employee
------------------------------
CLARK works for KING
SMITH works for FORD

13 rows selected.
```

Creating Cross Joins:

```
SQL> select ename,dname from emp cross join dept;

ENAME      DNAME
---------- --------------
SMITH      ACCOUNTING
ALLEN      ACCOUNTING
WARD       ACCOUNTING
JONES      ACCOUNTING
MARTIN     ACCOUNTING
BLAKE      ACCOUNTING
CLARK      ACCOUNTING
SCOTT      ACCOUNTING
KING       ACCOUNTING
TURNER     ACCOUNTING
ADAMS      ACCOUNTING

ENAME      DNAME
---------- --------------
JAMES      ACCOUNTING
FORD       ACCOUNTING
MILLER     ACCOUNTING
SMITH      RESEARCH
ALLEN      RESEARCH
WARD       RESEARCH
JONES      RESEARCH
MARTIN     RESEARCH
BLAKE      RESEARCH
CLARK      RESEARCH
SCOTT      RESEARCH

ENAME      DNAME
---------- --------------
KING       RESEARCH
TURNER     RESEARCH
ADAMS      RESEARCH
JAMES      RESEARCH
FORD       RESEARCH
MILLER     RESEARCH
SMITH      SALES
ALLEN      SALES
WARD       SALES
JONES      SALES
MARTIN     SALES

ENAME      DNAME
---------- --------------
BLAKE      SALES
CLARK      SALES
SCOTT      SALES
KING       SALES
TURNER     SALES
ADAMS      SALES
JAMES      SALES
FORD       SALES
MILLER     SALES
SMITH      OPERATIONS
ALLEN      OPERATIONS
```

```
ENAME      DNAME
---------- --------------
WARD       OPERATIONS
JONES      OPERATIONS
MARTIN     OPERATIONS
BLAKE      OPERATIONS
CLARK      OPERATIONS
SCOTT      OPERATIONS
KING       OPERATIONS
TURNER     OPERATIONS
ADAMS      OPERATIONS
JAMES      OPERATIONS
FORD       OPERATIONS

ENAME      DNAME
---------- --------------
MILLER     OPERATIONS

56 rows selected.
```

Creating Natural Joins:

```
SQL> select empno,ename,job,dname,loc from emp natural join dept;

     EMPNO ENAME      JOB       DNAME          LOC
---------- ---------- --------- -------------- -------------
      7782 CLARK      MANAGER   ACCOUNTING     NEW YORK
      7839 KING       PRESIDENT ACCOUNTING     NEW YORK
      7934 MILLER     CLERK     ACCOUNTING     NEW YORK
      7566 JONES      MANAGER   RESEARCH       DALLAS
      7902 FORD       ANALYST   RESEARCH       DALLAS
      7876 ADAMS      CLERK     RESEARCH       DALLAS
      7369 SMITH      CLERK     RESEARCH       DALLAS
      7788 SCOTT      ANALYST   RESEARCH       DALLAS
      7521 WARD       SALESMAN  SALES          CHICAGO
      7844 TURNER     SALESMAN  SALES          CHICAGO
      7499 ALLEN      SALESMAN  SALES          CHICAGO

     EMPNO ENAME      JOB       DNAME          LOC
---------- ---------- --------- -------------- -------------
      7900 JAMES      CLERK     SALES          CHICAGO
      7698 BLAKE      MANAGER   SALES          CHICAGO
      7654 MARTIN     SALESMAN  SALES          CHICAGO

14 rows selected.
```

```
SQL> select empno,ename,job,dname,loc from emp natural join dept where deptno in (10,20);

     EMPNO ENAME      JOB       DNAME          LOC
---------- ---------- --------- -------------- -------------
      7369 SMITH      CLERK     RESEARCH       DALLAS
      7566 JONES      MANAGER   RESEARCH       DALLAS
      7782 CLARK      MANAGER   ACCOUNTING     NEW YORK
      7788 SCOTT      ANALYST   RESEARCH       DALLAS
      7839 KING       PRESIDENT ACCOUNTING     NEW YORK
      7876 ADAMS      CLERK     RESEARCH       DALLAS
      7902 FORD       ANALYST   RESEARCH       DALLAS
      7934 MILLER     CLERK     ACCOUNTING     NEW YORK

8 rows selected.
```

Creating Joins with the USING clause:

```
SQL> select e.empno,e.ename,d.loc from emp e join dept d using (deptno);

     EMPNO ENAME      LOC
---------- ---------- -------------
      7782 CLARK      NEW YORK
      7839 KING       NEW YORK
      7934 MILLER     NEW YORK
      7566 JONES      DALLAS
      7902 FORD       DALLAS
      7876 ADAMS      DALLAS
      7369 SMITH      DALLAS
      7788 SCOTT      DALLAS
      7521 WARD       CHICAGO
      7844 TURNER     CHICAGO
      7499 ALLEN      CHICAGO

     EMPNO ENAME      LOC
---------- ---------- -------------
      7900 JAMES      CHICAGO
      7698 BLAKE      CHICAGO
      7654 MARTIN     CHICAGO

14 rows selected.
```

Creating Joins with the ON clause:

```
SQL> select e.empno,e.ename, d.deptno, d.loc from emp e join dept d on (e.deptno=d.deptno);

     EMPNO ENAME          DEPTNO LOC
---------- ---------- ---------- -------------
      7782 CLARK              10 NEW YORK
      7839 KING               10 NEW YORK
      7934 MILLER             10 NEW YORK
      7566 JONES              20 DALLAS
      7902 FORD               20 DALLAS
      7876 ADAMS              20 DALLAS
      7369 SMITH              20 DALLAS
      7788 SCOTT              20 DALLAS
      7521 WARD               30 CHICAGO
      7844 TURNER             30 CHICAGO
      7499 ALLEN              30 CHICAGO

     EMPNO ENAME          DEPTNO LOC
---------- ---------- ---------- -------------
      7900 JAMES              30 CHICAGO
      7698 BLAKE              30 CHICAGO
      7654 MARTIN             30 CHICAGO

14 rows selected.
```

Left Outer Join:

```
SQL> select empno,ename,job,dname,loc from emp e left outer join dept d on (e.deptno=d.deptno);

     EMPNO ENAME      JOB       DNAME          LOC
---------- ---------- --------- -------------- -------------
      7934 MILLER     CLERK     ACCOUNTING     NEW YORK
      7839 KING       PRESIDENT ACCOUNTING     NEW YORK
      7782 CLARK      MANAGER   ACCOUNTING     NEW YORK
      7902 FORD       ANALYST   RESEARCH       DALLAS
      7876 ADAMS      CLERK     RESEARCH       DALLAS
      7788 SCOTT      ANALYST   RESEARCH       DALLAS
      7566 JONES      MANAGER   RESEARCH       DALLAS
      7369 SMITH      CLERK     RESEARCH       DALLAS
      7900 JAMES      CLERK     SALES          CHICAGO
      7844 TURNER     SALESMAN  SALES          CHICAGO
      7698 BLAKE      MANAGER   SALES          CHICAGO

     EMPNO ENAME      JOB       DNAME          LOC
---------- ---------- --------- -------------- -------------
      7654 MARTIN     SALESMAN  SALES          CHICAGO
      7521 WARD       SALESMAN  SALES          CHICAGO
      7499 ALLEN      SALESMAN  SALES          CHICAGO

14 rows selected.
```

```
SQL> select empno,ename,job,dname,loc from emp e,dept d where e.deptno=d.deptno(+);

     EMPNO ENAME      JOB       DNAME          LOC
---------- ---------- --------- -------------- -------------
      7934 MILLER     CLERK     ACCOUNTING     NEW YORK
      7839 KING       PRESIDENT ACCOUNTING     NEW YORK
      7782 CLARK      MANAGER   ACCOUNTING     NEW YORK
      7902 FORD       ANALYST   RESEARCH       DALLAS
      7876 ADAMS      CLERK     RESEARCH       DALLAS
      7788 SCOTT      ANALYST   RESEARCH       DALLAS
      7566 JONES      MANAGER   RESEARCH       DALLAS
      7369 SMITH      CLERK     RESEARCH       DALLAS
      7900 JAMES      CLERK     SALES          CHICAGO
      7844 TURNER     SALESMAN  SALES          CHICAGO
      7698 BLAKE      MANAGER   SALES          CHICAGO

     EMPNO ENAME      JOB       DNAME          LOC
---------- ---------- --------- -------------- -------------
      7654 MARTIN     SALESMAN  SALES          CHICAGO
      7521 WARD       SALESMAN  SALES          CHICAGO
      7499 ALLEN      SALESMAN  SALES          CHICAGO

14 rows selected.
```

TASKS

1. Write a query to display the last name, department number, and department name for all employees.

```
SQL> select d.deptno, e.ename, d.dname from emp e, dept d;

    DEPTNO ENAME      DNAME
---------- ---------- --------------
        10 SMITH      ACCOUNTING
        10 ALLEN      ACCOUNTING
        10 WARD       ACCOUNTING
        10 JONES      ACCOUNTING
        10 MARTIN     ACCOUNTING
        10 BLAKE      ACCOUNTING
        10 CLARK      ACCOUNTING
        10 SCOTT      ACCOUNTING
        10 KING       ACCOUNTING
        10 TURNER     ACCOUNTING
        10 ADAMS      ACCOUNTING

    DEPTNO ENAME      DNAME
---------- ---------- --------------
        10 JAMES      ACCOUNTING
        10 FORD       ACCOUNTING
        10 MILLER     ACCOUNTING
        20 SMITH      RESEARCH
        20 ALLEN      RESEARCH
        20 WARD       RESEARCH
        20 JONES      RESEARCH
        20 MARTIN     RESEARCH
        20 BLAKE      RESEARCH
        20 CLARK      RESEARCH
        20 SCOTT      RESEARCH

    DEPTNO ENAME      DNAME
---------- ---------- --------------
        20 KING       RESEARCH
        20 TURNER     RESEARCH
        20 ADAMS      RESEARCH
        20 JAMES      RESEARCH
        20 FORD       RESEARCH
        20 MILLER     RESEARCH
        30 SMITH      SALES
        30 ALLEN      SALES
        30 WARD       SALES
        30 JONES      SALES
        30 MARTIN     SALES
```

```
    DEPTNO ENAME      DNAME
---------- ---------- --------------
        30 BLAKE      SALES
        30 CLARK      SALES
        30 SCOTT      SALES
        30 KING       SALES
        30 TURNER     SALES
        30 ADAMS      SALES
        30 JAMES      SALES
        30 FORD       SALES
        30 MILLER     SALES
        40 SMITH      OPERATIONS
        40 ALLEN      OPERATIONS

    DEPTNO ENAME      DNAME
---------- ---------- --------------
        40 WARD       OPERATIONS
        40 JONES      OPERATIONS
        40 MARTIN     OPERATIONS
        40 BLAKE      OPERATIONS
        40 CLARK      OPERATIONS
        40 SCOTT      OPERATIONS
        40 KING       OPERATIONS
        40 TURNER     OPERATIONS
        40 ADAMS      OPERATIONS
        40 JAMES      OPERATIONS
        40 FORD       OPERATIONS

    DEPTNO ENAME      DNAME
---------- ---------- --------------
        40 MILLER     OPERATIONS

56 rows selected.
```

2. Create a unique listing of all jobs that are in department 30. Include the location of department 40 in the output.

```
SQL> select distinct e.job, d.loc from emp e, dept d where (e.deptno=30 and d.deptno=40);

JOB       LOC
--------- -------------
SALESMAN  BOSTON
CLERK     BOSTON
MANAGER   BOSTON
```

3. Write a query to display the employee name, department name and location of all employees who earn a commission.

```
SQL> select ename, dname, loc, comm from emp, dept where comm is not null;

ENAME      DNAME          LOC                COMM
---------- -------------- ------------- ----------
ALLEN      ACCOUNTING     NEW YORK             300
ALLEN      RESEARCH       DALLAS               300
ALLEN      SALES          CHICAGO              300
ALLEN      OPERATIONS     BOSTON               300
WARD       ACCOUNTING     NEW YORK             500
WARD       RESEARCH       DALLAS               500
WARD       SALES          CHICAGO              500
WARD       OPERATIONS     BOSTON               500
MARTIN     ACCOUNTING     NEW YORK            1400
MARTIN     RESEARCH       DALLAS              1400
MARTIN     SALES          CHICAGO             1400

ENAME      DNAME          LOC                COMM
---------- -------------- ------------- ----------
MARTIN     OPERATIONS     BOSTON              1400
TURNER     ACCOUNTING     NEW YORK               0
TURNER     RESEARCH       DALLAS                 0
TURNER     SALES          CHICAGO                0
TURNER     OPERATIONS     BOSTON                 0

16 rows selected.
```

4. Display the employee name and department name for all employees who have an ‘a’ in their name.

```
SQL> select ename, dname from emp, dept where ename like '%A%';

ENAME      DNAME
---------- --------------
ALLEN      ACCOUNTING
ALLEN      RESEARCH
ALLEN      SALES
ALLEN      OPERATIONS
WARD       ACCOUNTING
WARD       RESEARCH
WARD       SALES
WARD       OPERATIONS
MARTIN     ACCOUNTING
MARTIN     RESEARCH
MARTIN     SALES

ENAME      DNAME
---------- --------------
MARTIN     OPERATIONS
BLAKE      ACCOUNTING
BLAKE      RESEARCH
BLAKE      SALES
BLAKE      OPERATIONS
CLARK      ACCOUNTING
CLARK      RESEARCH
CLARK      SALES
CLARK      OPERATIONS
ADAMS      ACCOUNTING
ADAMS      RESEARCH

ENAME      DNAME
---------- --------------
ADAMS      SALES
ADAMS      OPERATIONS
JAMES      ACCOUNTING
JAMES      RESEARCH
JAMES      SALES
JAMES      OPERATIONS

28 rows selected.
```

5. Write a query to display the employee name, job, department number and department name for all employees who work in ‘DALLAS’.

```
SQL> select ename, job, e.deptno, dname, loc from emp e, dept where loc= 'DALLAS';

ENAME      JOB           DEPTNO DNAME          LOC
---------- --------- ---------- -------------- -------------
SMITH      CLERK             20 RESEARCH       DALLAS
ALLEN      SALESMAN          30 RESEARCH       DALLAS
WARD       SALESMAN          30 RESEARCH       DALLAS
JONES      MANAGER           20 RESEARCH       DALLAS
MARTIN     SALESMAN          30 RESEARCH       DALLAS
BLAKE      MANAGER           30 RESEARCH       DALLAS
CLARK      MANAGER           10 RESEARCH       DALLAS
SCOTT      ANALYST           20 RESEARCH       DALLAS
KING       PRESIDENT         10 RESEARCH       DALLAS
TURNER     SALESMAN          30 RESEARCH       DALLAS
ADAMS      CLERK             20 RESEARCH       DALLAS

ENAME      JOB           DEPTNO DNAME          LOC
---------- --------- ---------- -------------- -------------
JAMES      CLERK             30 RESEARCH       DALLAS
FORD       ANALYST           20 RESEARCH       DALLAS
MILLER     CLERK             10 RESEARCH       DALLAS

14 rows selected.
```

6. Display the employee name and employee number along with their manager name and manager number. Label the columns Employee, Emp #, Manager and Mgr # respectively.

```
SQL> select e.ename as Employee, e.empno as Emp#, m.ename as Manager , m.mgr as Mgr# from emp e, emp m where m.empno=e.mgr;

EMPLOYEE        EMP# MANAGER         MGR#
---------- ---------- ---------- ----------
FORD            7902 JONES            7839
SCOTT           7788 JONES            7839
TURNER          7844 BLAKE            7839
ALLEN           7499 BLAKE            7839
WARD            7521 BLAKE            7839
JAMES           7900 BLAKE            7839
MARTIN          7654 BLAKE            7839
MILLER          7934 CLARK            7839
ADAMS           7876 SCOTT            7566
BLAKE           7698 KING
JONES           7566 KING

EMPLOYEE        EMP# MANAGER         MGR#
---------- ---------- ---------- ----------
CLARK           7782 KING
SMITH           7369 FORD             7566

13 rows selected.
```

7. Modify the above query to display all employees including King, who has no manager. Order the results by employee number.

```
SQL> select e.ename as Employee, e.empno as Emp#, m.ename as Manager , m.mgr as Mgr# from emp e, emp m where m.empno=e.mgr an
d m.mgr is not null;

EMPLOYEE        EMP# MANAGER        MGR#
---------- ---------- ---------- ----------
FORD            7902 JONES          7839
SCOTT           7788 JONES          7839
TURNER          7844 BLAKE          7839
ALLEN           7499 BLAKE          7839
WARD            7521 BLAKE          7839
JAMES           7900 BLAKE          7839
MARTIN          7654 BLAKE          7839
MILLER          7934 CLARK          7839
ADAMS           7876 SCOTT          7566
SMITH           7369 FORD           7566

10 rows selected.
```

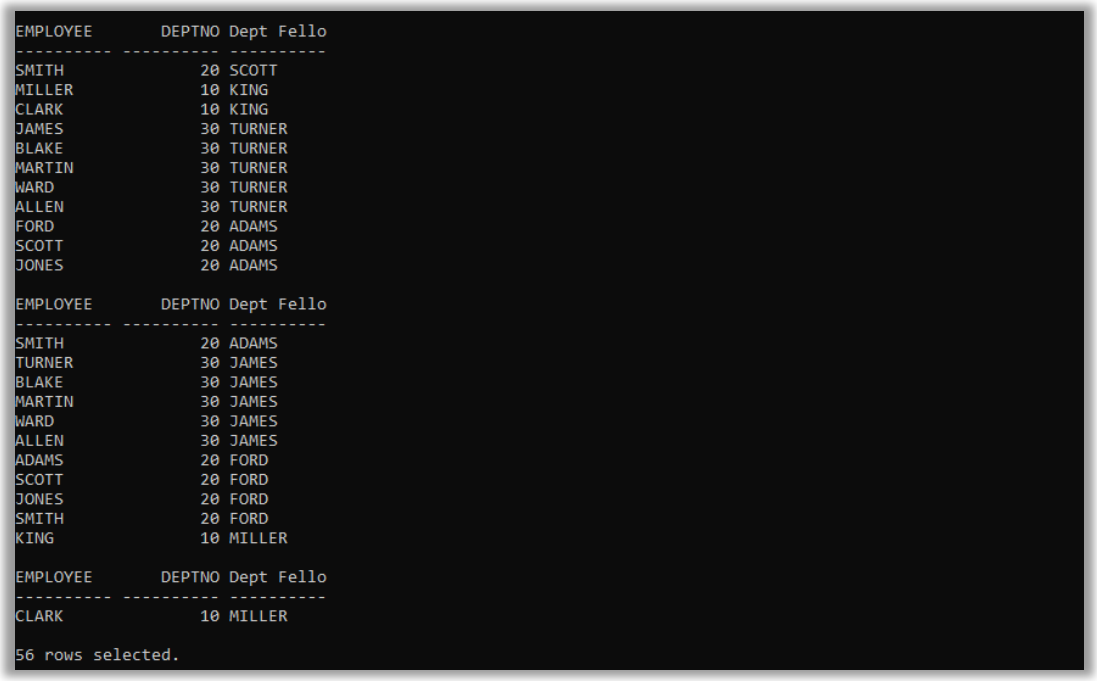
8. Create a query that displays the employee name, department number, and all the employees who work in the same department as a given employee. Given each employee an appropriate label.

```
SQL> select e.ename as employee, e.deptno, esd.ename as "Dept Fellows"
  2  from emp e join emp esd
  3  on (e.deptno=esd.deptno)
  4  where e.empno<>esd.empno;

EMPLOYEE       DEPTNO Dept Fello
---------- ---------- ----------
FORD               20 SMITH
ADAMS              20 SMITH
SCOTT              20 SMITH
JONES              20 SMITH
JAMES              30 ALLEN
TURNER             30 ALLEN
BLAKE              30 ALLEN
MARTIN             30 ALLEN
WARD               30 ALLEN
JAMES              30 WARD
TURNER             30 WARD

EMPLOYEE       DEPTNO Dept Fello
---------- ---------- ----------
BLAKE              30 WARD
MARTIN             30 WARD
ALLEN              30 WARD
FORD               20 JONES
ADAMS              20 JONES
SCOTT              20 JONES
SMITH              20 JONES
JAMES              30 MARTIN
TURNER             30 MARTIN
BLAKE              30 MARTIN
WARD               30 MARTIN

EMPLOYEE       DEPTNO Dept Fello
---------- ---------- ----------
ALLEN              30 MARTIN
JAMES              30 BLAKE
TURNER             30 BLAKE
MARTIN             30 BLAKE
WARD               30 BLAKE
ALLEN              30 BLAKE
MILLER             10 CLARK
KING               10 CLARK
FORD               20 SCOTT
```



```
EMPLOYEE       DEPTNO Dept Fello
---------- ---------- ----------
SMITH              20 SCOTT
MILLER             10 KING
CLARK              10 KING
JAMES              30 TURNER
BLAKE              30 TURNER
MARTIN             30 TURNER
WARD               30 TURNER
ALLEN              30 TURNER
FORD               20 ADAMS
SCOTT              20 ADAMS
JONES              20 ADAMS

EMPLOYEE       DEPTNO Dept Fello
---------- ---------- ----------
SMITH              20 ADAMS
TURNER             30 JAMES
BLAKE              30 JAMES
MARTIN             30 JAMES
WARD               30 JAMES
ALLEN              30 JAMES
ADAMS              20 FORD
SCOTT              20 FORD
JONES              20 FORD
SMITH              20 FORD
KING               10 MILLER

EMPLOYEE       DEPTNO Dept Fello
---------- ---------- ----------
CLARK              10 MILLER

56 rows selected.
```