```
SQL> cl scr

SQL> --WHERE Dept.Deptno = Emp.Deptno --INNER Join Principle
SQL> --WHERE Dept.Deptno = Emp.Deptno(+) --OUTER Join Principle
SQL> --WHERE Dept.Deptno = Emp.Deptno(+) AND Emp.Job = 'MANAGER' --OUTER
Join Principle Converted To INNER Join Principle
SQL> --WHERE Dept.Deptno = Emp.Deptno(+) AND Emp.Job(+) = 'MANAGER' --
OUTER Join Principle Continued As OUTER Join Principle in Extended
Condition
SQL> --WHERE Dept.Deptno = Emp.Deptno(+) AND Emp.Sal * 12(+) >= 25000 --
OUTER Join Principle With An Error As The The Extended OUTER Join is on
The Expression
SQL> --WHERE Dept.Deptno = Emp.Deptno(+) AND Emp.Sal(+) * 12 >= 25000 --
OUTER Join Principle Declared on The Column in The Expression
SQL> --WHERE Dept.Deptno = Emp.Deptno(+) OR Emp.Sal(+) * 12 >= 25000 --
OUTER Join Principle With An Error As it is Extended With OR Operator
SQL> --WHERE Dept.Deptno = Emp.Deptno(+) AND Emp.Sal(+) * 12 >= 25000 AND
Job IN('MANAGER', 'CLERK', 'SALESMAN') --OUTER Join Principle With An
Error As it is Extended With IN Operator
SQL> SELECT E.Ename, D.Deptno, D.Dname
  2  FROM Emp E, Dept D
  3  WHERE D.Deptno = E.Deptno (+)
  4  ORDER BY E.Deptno;

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

15 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT E.Ename, E.Job, E.Sal, D.Deptno, D.Dname
  2  FROM Emp E, Dept D
  3  WHERE D.Deptno = E.Deptno (+)
  4* ORDER BY E.Deptno
SQL> /
```

```
ENAME      JOB              SAL     DEPTNO DNAME
---------- --------- ---------- ---------- --------------
KING       PRESIDENT       5000         10 ACCOUNTING
MILLER     CLERK           1300         10 ACCOUNTING
CLARK      MANAGER         2450         10 ACCOUNTING
ADAMS      CLERK           1100         20 RESEARCH
SCOTT      ANALYST         3000         20 RESEARCH
SMITH      CLERK            800         20 RESEARCH
FORD       ANALYST         3000         20 RESEARCH
JONES      MANAGER         2975         20 RESEARCH
WARD       SALESMAN        1250         30 SALES
JAMES      CLERK            950         30 SALES
TURNER     SALESMAN        1500         30 SALES
ALLEN      SALESMAN        1600         30 SALES
MARTIN     SALESMAN        1250         30 SALES
BLAKE      MANAGER         2850         30 SALES
                                        40 OPERATIONS

15 rows selected.

SQL> INSERT INTO Dept
  2  VALUES(50, 'SHIPPING', 'CHENNAI');

1 row created.

SQL> INSERT INTO Dept
  2  VALUES(60, 'CARGO', 'MUMBAI');

1 row created.

SQL> INSERT INTO Dept
  2  VALUES(70, 'COURIER', 'DELHI');

1 row created.

SQL> SELECT E.Ename, E.Job, E.Sal, D.Deptno, D.Dname
  2  FROM Emp E, Dept D
  3  WHERE D.Deptno = E.Deptno (+)
  4  ORDER BY E.Deptno;

ENAME      JOB              SAL     DEPTNO DNAME
---------- --------- ---------- ---------- --------------
KING       PRESIDENT       5000         10 ACCOUNTING
MILLER     CLERK           1300         10 ACCOUNTING
CLARK      MANAGER         2450         10 ACCOUNTING
ADAMS      CLERK           1100         20 RESEARCH
SCOTT      ANALYST         3000         20 RESEARCH
SMITH      CLERK            800         20 RESEARCH
FORD       ANALYST         3000         20 RESEARCH
JONES      MANAGER         2975         20 RESEARCH
WARD       SALESMAN        1250         30 SALES
```

```
JAMES       CLERK           950         30 SALES
TURNER      SALESMAN       1500         30 SALES
ALLEN       SALESMAN       1600         30 SALES
MARTIN      SALESMAN       1250         30 SALES
BLAKE       MANAGER        2850         30 SALES
                                        50 SHIPPING
                                        60 CARGO
                                        70 COURIER


ENAME       JOB             SAL     DEPTNO DNAME
---------- --------- ---------- ---------- --------------
                                        40 OPERATIONS


18 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT E.Ename, E.Job, E.Sal, E.Deptno, D.Dname, D.Loc
  2  FROM Emp E, Dept D
  3  WHERE D.Deptno = E.Deptno (+)
  4* ORDER BY E.Deptno
SQL> /

ENAME       JOB             SAL     DEPTNO DNAME          LOC
---------- --------- ---------- ---------- -------------- -------------
KING        PRESIDENT      5000         10 ACCOUNTING     NEW YORK
MILLER      CLERK          1300         10 ACCOUNTING     NEW YORK
CLARK       MANAGER        2450         10 ACCOUNTING     NEW YORK
ADAMS       CLERK          1100         20 RESEARCH       DALLAS
SCOTT       ANALYST        3000         20 RESEARCH       DALLAS
SMITH       CLERK           800         20 RESEARCH       DALLAS
FORD        ANALYST        3000         20 RESEARCH       DALLAS
JONES       MANAGER        2975         20 RESEARCH       DALLAS
WARD        SALESMAN       1250         30 SALES          CHICAGO
JAMES       CLERK           950         30 SALES          CHICAGO
TURNER      SALESMAN       1500         30 SALES          CHICAGO
ALLEN       SALESMAN       1600         30 SALES          CHICAGO
MARTIN      SALESMAN       1250         30 SALES          CHICAGO
BLAKE       MANAGER        2850         30 SALES          CHICAGO
                                           SHIPPING       CHENNAI
                                           CARGO          MUMBAI
                                           COURIER        DELHI


ENAME       JOB             SAL     DEPTNO DNAME          LOC
---------- --------- ---------- ---------- -------------- -------------
                                           OPERATIONS     BOSTON


18 rows selected.

SQL> SELECT E.Ename, D.Deptno, D.Dname
  2  FROM Emp E, Dept D
```

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```
  3   WHERE D.Deptno = E.Deptno(+)
  4   AND E.Deptno = 10
  5   ORDER BY E.Deptno;

ENAME          DEPTNO DNAME
---------- ---------- --------------
KING               10 ACCOUNTING
CLARK              10 ACCOUNTING
MILLER             10 ACCOUNTING

SQL> ED
Wrote file afiedt.buf

  1   SELECT E.Ename, D.Deptno, D.Dname
  2   FROM Emp E, Dept D
  3   WHERE D.Deptno = E.Deptno(+)
  4   AND E.Deptno(+) = 10
  5*  ORDER BY E.Deptno
SQL> /

ENAME          DEPTNO DNAME
---------- ---------- --------------
CLARK              10 ACCOUNTING
KING               10 ACCOUNTING
MILLER             10 ACCOUNTING
                   30 SALES
                   70 COURIER
                   20 RESEARCH
                   40 OPERATIONS
                   50 SHIPPING
                   60 CARGO

9 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   NVL(E.Ename, 'NOT REQUESTED OR RECRUITED') Ename,
  3   D.Deptno,
  4   D.Dname
  5   FROM Emp E, Dept D
  6   WHERE D.Deptno = E.Deptno(+)
  7   AND E.Deptno(+) = 10
  8*  ORDER BY E.Deptno
SQL> /

ENAME                        DEPTNO DNAME
------------------------- ---------- --------------
CLARK                             10 ACCOUNTING
KING                              10 ACCOUNTING
MILLER                            10 ACCOUNTING
```

```
NOT REQUESTED OR RECRUITED          30 SALES
NOT REQUESTED OR RECRUITED          70 COURIER
NOT REQUESTED OR RECRUITED          20 RESEARCH
NOT REQUESTED OR RECRUITED          40 OPERATIONS
NOT REQUESTED OR RECRUITED          50 SHIPPING
NOT REQUESTED OR RECRUITED          60 CARGO


9 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   NVL(E.Ename, 'NOT REQUESTED OR RECRUITED') Ename,
  3   D.Deptno,
  4   D.Dname
  5   FROM Emp E, Dept D
  6   WHERE D.Deptno(+) = E.Deptno
  7*  ORDER BY E.Deptno
SQL> /

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

14 rows selected.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> SELECT
  2   E.Ename Employee,
  3   NVL(M.Ename, 'Supreme Authority') Manager
  4   FROM Emp E, Emp M
```

```
     5  WHERE E.MGR = M.Empno(+);

EMPLOYEE    MANAGER
----------  -----------------
JONES       KING
CLARK       KING
BLAKE       KING
WARD        BLAKE
JAMES       BLAKE
TURNER      BLAKE
ALLEN       BLAKE
MARTIN      BLAKE
MILLER      CLARK
SCOTT       JONES
FORD        JONES
SMITH       FORD
ADAMS       SCOTT
KING        Supreme Authority

14 rows selected.

SQL> cl scr

SQL> SELECT
  2  C.Name, O.OrdID, I.ItemID, I.Itemtot, O.Total
  3  FROM Customer C, Ord O, Item I
  4  WHERE C.CustID = O.CustID
  5  AND O.OrdID = I.OrdID
  6  AND C.Name = 'TKB SPORT SHOP';

NAME                                              ORDID      ITEMID
ITEMTOT     TOTAL
-------------------------------------------- ---------- ---------- -----
----- ----------
TKB SPORT SHOP                                       610          2
8.4      101.4
TKB SPORT SHOP                                       610          1
35       101.4
TKB SPORT SHOP                                       610          3
58       101.4

SQL> cl scr

SQL> SELECT
  2  E.Ename EmpName,
  3  E.Deptno EmpDeptno,
  4  M.Ename MGRName,
  5  M.Deptno MGRDeptno
  6  FROM Emp E, Dept D, Emp M
  7  WHERE E.MGR = M.Empno AND
  8            E.Deptno = D.Deptno;
```

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```
EMPNAME        EMPDEPTNO MGRNAME     MGRDEPTNO
---------- ---------- ---------- ----------
JONES              20 KING               10
CLARK              10 KING               10
BLAKE              30 KING               10
WARD               30 BLAKE              30
JAMES              30 BLAKE              30
TURNER             30 BLAKE              30
ALLEN              30 BLAKE              30
MARTIN             30 BLAKE              30
MILLER             10 CLARK              10
SCOTT              20 JONES              20
FORD               20 JONES              20
SMITH              20 FORD               20
ADAMS              20 SCOTT              20

13 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  E.Ename EmpName,
  3  E.Deptno EmpDeptno,
  4  M.Ename MGRName,
  5  M.Deptno MGRDeptno
  6  FROM Emp E, Emp M
  7* WHERE E.MGR = M.Empno
SQL> /

EMPNAME        EMPDEPTNO MGRNAME     MGRDEPTNO
---------- ---------- ---------- ----------
JONES              20 KING               10
CLARK              10 KING               10
BLAKE              30 KING               10
WARD               30 BLAKE              30
JAMES              30 BLAKE              30
TURNER             30 BLAKE              30
ALLEN              30 BLAKE              30
MARTIN             30 BLAKE              30
MILLER             10 CLARK              10
SCOTT              20 JONES              20
FORD               20 JONES              20
SMITH              20 FORD               20
ADAMS              20 SCOTT              20

13 rows selected.

SQL> cl scr

SQL> SELECT
  2  E.Ename EmpName,
```

```
  3    Dname EmpDname,
  4    Loc EmpPlace,
  5    M.Ename MGRName,
  6    Dname MGRDname
  7    FROM Emp E, Dept D, Emp M
  8    WHERE E.MGR = M.Empno AND
  9              E.Deptno = D.Deptno;


EMPNAME      EMPDNAME        EMPPLACE       MGRNAME      MGRDNAME
----------   --------------  -------------  ----------   --------------
JONES        RESEARCH        DALLAS         KING         RESEARCH
CLARK        ACCOUNTING      NEW YORK       KING         ACCOUNTING
BLAKE        SALES           CHICAGO        KING         SALES
WARD         SALES           CHICAGO        BLAKE        SALES
JAMES        SALES           CHICAGO        BLAKE        SALES
TURNER       SALES           CHICAGO        BLAKE        SALES
ALLEN        SALES           CHICAGO        BLAKE        SALES
MARTIN       SALES           CHICAGO        BLAKE        SALES
MILLER       ACCOUNTING      NEW YORK       CLARK        ACCOUNTING
SCOTT        RESEARCH        DALLAS         JONES        RESEARCH
FORD         RESEARCH        DALLAS         JONES        RESEARCH
SMITH        RESEARCH        DALLAS         FORD         RESEARCH
ADAMS        RESEARCH        DALLAS         SCOTT        RESEARCH

13 rows selected.

SQL> ED
Wrote file afiedt.buf

  1    SELECT
  2    E.Ename EmpName,
  3    Dname EmpDname,
  4    Loc EmpPlace,
  5    M.Ename MGRName,
  6    Dname MGRDname
  7    FROM Emp E, Dept D, Emp M
  8    WHERE E.MGR = M.Empno AND
  9*             M.Deptno = D.Deptno
SQL> /


EMPNAME      EMPDNAME        EMPPLACE       MGRNAME      MGRDNAME
----------   --------------  -------------  ----------   --------------
BLAKE        ACCOUNTING      NEW YORK       KING         ACCOUNTING
CLARK        ACCOUNTING      NEW YORK       KING         ACCOUNTING
JONES        ACCOUNTING      NEW YORK       KING         ACCOUNTING
MARTIN       SALES           CHICAGO        BLAKE        SALES
ALLEN        SALES           CHICAGO        BLAKE        SALES
TURNER       SALES           CHICAGO        BLAKE        SALES
JAMES        SALES           CHICAGO        BLAKE        SALES
WARD         SALES           CHICAGO        BLAKE        SALES
FORD         RESEARCH        DALLAS         JONES        RESEARCH
SMITH        RESEARCH        DALLAS         FORD         RESEARCH
```

```
SCOTT      RESEARCH      DALLAS        JONES      RESEARCH
ADAMS      RESEARCH      DALLAS        SCOTT      RESEARCH
MILLER     ACCOUNTING    NEW YORK      CLARK      ACCOUNTING

13 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   E.Ename EmpName,
  3   Dname EmpDname,
  4   Loc EmpPlace,
  5   M.Ename MGRName,
  6   Dname MGRDname
  7   FROM Emp E, Dept D, Emp M
  8   WHERE E.MGR = M.Empno AND
  9            M.Deptno = D.Deptno AND
 10*          E.Deptno = D.Deptno
SQL> /

EMPNAME    EMPDNAME      EMPPLACE      MGRNAME    MGRDNAME
---------- ------------- ------------- ---------- -------------
CLARK      ACCOUNTING    NEW YORK      KING       ACCOUNTING
WARD       SALES         CHICAGO       BLAKE      SALES
JAMES      SALES         CHICAGO       BLAKE      SALES
TURNER     SALES         CHICAGO       BLAKE      SALES
ALLEN      SALES         CHICAGO       BLAKE      SALES
MARTIN     SALES         CHICAGO       BLAKE      SALES
MILLER     ACCOUNTING    NEW YORK      CLARK      ACCOUNTING
SCOTT      RESEARCH      DALLAS        JONES      RESEARCH
FORD       RESEARCH      DALLAS        JONES      RESEARCH
SMITH      RESEARCH      DALLAS        FORD       RESEARCH
ADAMS      RESEARCH      DALLAS        SCOTT      RESEARCH

11 rows selected.

SQL> SELECT
  2   E.Ename EmpName,
  3   DE.Dname EmpDname,
  4   DE.Loc EmpLoc,
  5   M.Ename MGRName,
  6   DM.Dname MGRDname
  7   FROM Emp E, Dept DE, Emp M, Dept DM
  8   WHERE E.MGR = M.Empno AND
  9            E.Deptno = DE.Deptno AND
 10          M.Deptno = DM.Deptno
 11   ORDER BY E.Deptno;

EMPNAME    EMPDNAME      EMPLOC        MGRNAME    MGRDNAME
---------- ------------- ------------- ---------- -------------
MILLER     ACCOUNTING    NEW YORK      CLARK      ACCOUNTING
```

```
CLARK        ACCOUNTING     NEW YORK      KING         ACCOUNTING
FORD         RESEARCH       DALLAS        JONES        RESEARCH
SCOTT        RESEARCH       DALLAS        JONES        RESEARCH
SMITH        RESEARCH       DALLAS        FORD         RESEARCH
ADAMS        RESEARCH       DALLAS        SCOTT        RESEARCH
JONES        RESEARCH       DALLAS        KING         ACCOUNTING
JAMES        SALES          CHICAGO       BLAKE        SALES
WARD         SALES          CHICAGO       BLAKE        SALES
TURNER       SALES          CHICAGO       BLAKE        SALES
ALLEN        SALES          CHICAGO       BLAKE        SALES
MARTIN       SALES          CHICAGO       BLAKE        SALES
BLAKE        SALES          CHICAGO       KING         ACCOUNTING

13 rows selected.

SQL> cl scr

SQL> SELECT
  2  E.Ename EmpName,
  3  E.Sal EmpSal,
  4  M.Ename MGRName,
  5  M.Sal EmpSal,
  6  Dname MGRDname
  7  FROM Emp E, Dept D, Emp M
  8  WHERE E.Deptno = D.Deptno  AND
  9  E.MGR = M.Empno;

EMPNAME        EMPSAL MGRNAME         EMPSAL MGRDNAME
---------- ---------- ---------- ---------- ---------------

JONES            2975 KING             5000 RESEARCH
CLARK            2450 KING             5000 ACCOUNTING
BLAKE            2850 KING             5000 SALES
WARD             1250 BLAKE            2850 SALES
JAMES             950 BLAKE            2850 SALES
TURNER           1500 BLAKE            2850 SALES
ALLEN            1600 BLAKE            2850 SALES
MARTIN           1250 BLAKE            2850 SALES
MILLER           1300 CLARK            2450 ACCOUNTING
SCOTT            3000 JONES            2975 RESEARCH
FORD             3000 JONES            2975 RESEARCH
SMITH             800 FORD             3000 RESEARCH
ADAMS            1100 SCOTT            3000 RESEARCH

13 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  E.Ename EmpName,
  3  E.Sal EmpSal,
  4  M.Ename MGRName,
```

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```
    5   M.Sal EmpSal,
    6   Dname MGRDname
    7   FROM Emp E, Dept D, Emp M
    8   WHERE M.Deptno = D.Deptno   AND
    9*  E.MGR = M.Empno
SQL> /

EMPNAME          EMPSAL MGRNAME         EMPSAL MGRDNAME
---------- ---------- ---------- ---------- --------------
BLAKE              2850 KING              5000 ACCOUNTING
CLARK              2450 KING              5000 ACCOUNTING
JONES              2975 KING              5000 ACCOUNTING
MARTIN             1250 BLAKE             2850 SALES
ALLEN              1600 BLAKE             2850 SALES
TURNER             1500 BLAKE             2850 SALES
JAMES               950 BLAKE             2850 SALES
WARD               1250 BLAKE             2850 SALES
FORD               3000 JONES             2975 RESEARCH
SMITH               800 FORD              3000 RESEARCH
SCOTT              3000 JONES             2975 RESEARCH
ADAMS              1100 SCOTT             3000 RESEARCH
MILLER             1300 CLARK             2450 ACCOUNTING

13 rows selected.

SQL> ED
Wrote file afiedt.buf

    1   SELECT
    2   E.Ename EmpName,
    3   E.Sal EmpSal,
    4   Dname EMPDname,
    5   M.Ename MGRName,
    6   M.Sal EmpSal,
    7   Dname MGRDname
    8   FROM Emp E, Dept D, Emp M
    9   WHERE M.Deptno = D.Deptno   AND
   10*  E.MGR = M.Empno
SQL> /

EMPNAME          EMPSAL EMPDNAME       MGRNAME         EMPSAL MGRDNAME
---------- ---------- -------------- ---------- ---------- --------------
BLAKE              2850 ACCOUNTING     KING              5000 ACCOUNTING
CLARK              2450 ACCOUNTING     KING              5000 ACCOUNTING
JONES              2975 ACCOUNTING     KING              5000 ACCOUNTING
MARTIN             1250 SALES          BLAKE             2850 SALES
ALLEN              1600 SALES          BLAKE             2850 SALES
TURNER             1500 SALES          BLAKE             2850 SALES
JAMES               950 SALES          BLAKE             2850 SALES
WARD               1250 SALES          BLAKE             2850 SALES
FORD               3000 RESEARCH       JONES             2975 RESEARCH
SMITH               800 RESEARCH       FORD              3000 RESEARCH
```

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```
SCOTT            3000 RESEARCH       JONES              2975 RESEARCH
ADAMS            1100 RESEARCH       SCOTT              3000 RESEARCH
MILLER           1300 ACCOUNTING     CLARK              2450 ACCOUNTING

13 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  E.Ename EmpName,
  3  E.Sal EmpSal,
  4  Dname EMPDname,
  5  M.Ename MGRName,
  6  M.Sal EmpSal,
  7  Dname MGRDname
  8  FROM Emp E, Dept D, Emp M
  9  WHERE E.Deptno = D.Deptno  AND
 10* E.MGR = M.Empno
SQL> /

EMPNAME         EMPSAL EMPDNAME       MGRNAME        EMPSAL MGRDNAME
---------- ---------- -------------- ---------- ---------- --------------
JONES            2975 RESEARCH       KING             5000 RESEARCH
CLARK            2450 ACCOUNTING     KING             5000 ACCOUNTING
BLAKE            2850 SALES          KING             5000 SALES
WARD             1250 SALES          BLAKE            2850 SALES
JAMES             950 SALES          BLAKE            2850 SALES
TURNER           1500 SALES          BLAKE            2850 SALES
ALLEN            1600 SALES          BLAKE            2850 SALES
MARTIN           1250 SALES          BLAKE            2850 SALES
MILLER           1300 ACCOUNTING     CLARK            2450 ACCOUNTING
SCOTT            3000 RESEARCH       JONES            2975 RESEARCH
FORD             3000 RESEARCH       JONES            2975 RESEARCH
SMITH             800 RESEARCH       FORD             3000 RESEARCH
ADAMS            1100 RESEARCH       SCOTT            3000 RESEARCH

13 rows selected.

SQL> SELECT
  2  E.Ename EmpName,
  3  E.Sal EmpSal,
  4  M.Ename MGRName,
  5  M.Sal MGRSal,
  6  DM.Dname MGRDname
  7  FROM Emp E, Dept DE, Emp M, Dept DM
  8  WHERE E.Deptno = DE.Deptno  AND
  9  M.Deptno = DM.Deptno AND
 10  E.MGR = M.Empno;

EMPNAME         EMPSAL MGRNAME        MGRSAL MGRDNAME
---------- ---------- ---------- ---------- --------------
```

```
BLAKE               2850 KING              5000 ACCOUNTING
CLARK               2450 KING              5000 ACCOUNTING
JONES               2975 KING              5000 ACCOUNTING
MARTIN              1250 BLAKE             2850 SALES
ALLEN               1600 BLAKE             2850 SALES
TURNER              1500 BLAKE             2850 SALES
JAMES                950 BLAKE             2850 SALES
WARD                1250 BLAKE             2850 SALES
FORD                3000 JONES             2975 RESEARCH
SMITH                800 FORD              3000 RESEARCH
SCOTT               3000 JONES             2975 RESEARCH
ADAMS               1100 SCOTT             3000 RESEARCH
MILLER              1300 CLARK             2450 ACCOUNTING

13 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  E.Ename EmpName,
  3  E.Sal EmpSal,
  4  DE.Dname EmpDname,
  5  M.Ename MGRName,
  6  M.Sal MGRSal,
  7  DM.Dname MGRDname
  8  FROM Emp E, Dept DE, Emp M, Dept DM
  9  WHERE E.Deptno = DE.Deptno  AND
 10  M.Deptno = DM.Deptno AND
 11* E.MGR = M.Empno
SQL> /

EMPNAME        EMPSAL EMPDNAME       MGRNAME        MGRSAL MGRDNAME
---------- ---------- -------------- ---------- ---------- --------------
MILLER           1300 ACCOUNTING     CLARK            2450 ACCOUNTING
BLAKE            2850 SALES          KING             5000 ACCOUNTING
CLARK            2450 ACCOUNTING     KING             5000 ACCOUNTING
JONES            2975 RESEARCH       KING             5000 ACCOUNTING
ADAMS            1100 RESEARCH       SCOTT            3000 RESEARCH
SMITH             800 RESEARCH       FORD             3000 RESEARCH
FORD             3000 RESEARCH       JONES            2975 RESEARCH
SCOTT            3000 RESEARCH       JONES            2975 RESEARCH
MARTIN           1250 SALES          BLAKE            2850 SALES
ALLEN            1600 SALES          BLAKE            2850 SALES
TURNER           1500 SALES          BLAKE            2850 SALES
JAMES             950 SALES          BLAKE            2850 SALES
WARD             1250 SALES          BLAKE            2850 SALES

13 rows selected.

SQL> cl scr
```

```
SQL> COLUMN Employee FORMAT A14
SQL> COLUMN "Employee's Dept" FORMAT A10
SQL> COLUMN Manager FORMAT A15
SQL> COLUMN "Manager's Dept" FORMAT A15
SQL> SELECT
  2  NVL(E.Ename, 'Not Recruited') EmpName,
  3  DE.Dname EmpDname,
  4  NVL(M.Ename, 'NULL Manager') MGRName,
  5  NVL(DM.Dname, 'Not Recruited') MGRDname,
  6  DE.Deptno MGRDeptno
  7  FROM Emp E, Dept DE, Emp M, Dept DM
  8  WHERE E.Deptno(+) = DE.Deptno  AND
  9  M.Deptno = DM.Deptno(+) AND
 10  E.MGR = M.Empno(+);

EMPNAME        EMPDNAME       MGRNAME       MGRDNAME       MGRDEPTNO
-------------  -------------  ------------  -------------  -----------
MILLER         ACCOUNTING     CLARK         ACCOUNTING             10
BLAKE          SALES          KING          ACCOUNTING             30
CLARK          ACCOUNTING     KING          ACCOUNTING             10
JONES          RESEARCH       KING          ACCOUNTING             20
ADAMS          RESEARCH       SCOTT         RESEARCH               20
SMITH          RESEARCH       FORD          RESEARCH               20
FORD           RESEARCH       JONES         RESEARCH               20
SCOTT          RESEARCH       JONES         RESEARCH               20
MARTIN         SALES          BLAKE         SALES                  30
ALLEN          SALES          BLAKE         SALES                  30
TURNER         SALES          BLAKE         SALES                  30
JAMES          SALES          BLAKE         SALES                  30
WARD           SALES          BLAKE         SALES                  30
KING           ACCOUNTING     NULL Manager  Not Recruited          10
Not Recruited OPERATIONS      NULL Manager  Not Recruited          40

15 rows selected.

SQL> cl scr

SQL> COLUMN "Employee's Salary" FORMAT 9999
SQL> COLUMN EMPGRADE FORMAT 99
SQL> COLUMN "Manager's Salary" FORMAT 9999
SQL> COLUMN MGRGRADE FORMAT 99
SQL> SELECT
  2  E.Ename EmpName,
  3  E.Sal EmpSal,
  4  SE.Grade EmpGrade,
  5  M.Sal MGRSal,
  6  SM.Grade MGRGrade,
  7  Dname MGRDname
  8  FROM Emp E, Dept D, Emp M, SalGrade SE, SalGrade SM
  9  WHERE E.Deptno = D.Deptno  AND
 10  E.MGR = M.Empno AND
 11  E.Sal BETWEEN SE.LoSal AND SE.HiSal AND
```

```
   12   M.Sal BETWEEN SM.LoSal AND SM.HiSal;

   EMPNAME        EMPSAL EMPGRADE    MGRSAL MGRGRADE MGRDNAME
   ---------- ---------- -------- ---------- -------- --------------
   SMITH             800        1       3000        4 RESEARCH
   JAMES             950        1       2850        4 SALES
   ADAMS            1100        1       3000        4 RESEARCH
   WARD             1250        2       2850        4 SALES
   MARTIN           1250        2       2850        4 SALES
   MILLER           1300        2       2450        4 ACCOUNTING
   TURNER           1500        3       2850        4 SALES
   ALLEN            1600        3       2850        4 SALES
   CLARK            2450        4       5000        5 ACCOUNTING
   BLAKE            2850        4       5000        5 SALES
   JONES            2975        4       5000        5 RESEARCH
   FORD             3000        4       2975        4 RESEARCH
   SCOTT            3000        4       2975        4 RESEARCH

   13 rows selected.

   SQL> cl scr

   SQL> SELECT Ename, Dept.Deptno, Dname, Loc
     2   FROM Emp CROSS JOIN Dept;

   ENAME          DEPTNO DNAME          LOC
   ---------- ---------- -------------- -------------
   KING               10 ACCOUNTING     NEW YORK
   BLAKE              10 ACCOUNTING     NEW YORK
   CLARK              10 ACCOUNTING     NEW YORK
   JONES              10 ACCOUNTING     NEW YORK
   MARTIN             10 ACCOUNTING     NEW YORK
   ALLEN              10 ACCOUNTING     NEW YORK
   TURNER             10 ACCOUNTING     NEW YORK
   JAMES              10 ACCOUNTING     NEW YORK
   WARD               10 ACCOUNTING     NEW YORK
   FORD               10 ACCOUNTING     NEW YORK
   SMITH              10 ACCOUNTING     NEW YORK
   SCOTT              10 ACCOUNTING     NEW YORK
   ADAMS              10 ACCOUNTING     NEW YORK
   MILLER             10 ACCOUNTING     NEW YORK
   KING               20 RESEARCH       DALLAS
   BLAKE              20 RESEARCH       DALLAS
   CLARK              20 RESEARCH       DALLAS

   ENAME          DEPTNO DNAME          LOC
   ---------- ---------- -------------- -------------
   JONES              20 RESEARCH       DALLAS
   MARTIN             20 RESEARCH       DALLAS
   ALLEN              20 RESEARCH       DALLAS
   TURNER             20 RESEARCH       DALLAS
   JAMES              20 RESEARCH       DALLAS
```

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```
WARD                 20 RESEARCH       DALLAS
FORD                 20 RESEARCH       DALLAS
SMITH                20 RESEARCH       DALLAS
SCOTT                20 RESEARCH       DALLAS
ADAMS                20 RESEARCH       DALLAS
MILLER               20 RESEARCH       DALLAS
KING                 30 SALES          CHICAGO
BLAKE                30 SALES          CHICAGO
CLARK                30 SALES          CHICAGO
JONES                30 SALES          CHICAGO
MARTIN               30 SALES          CHICAGO
ALLEN                30 SALES          CHICAGO

ENAME           DEPTNO DNAME           LOC
---------- ---------- -------------- -------------
TURNER               30 SALES          CHICAGO
JAMES                30 SALES          CHICAGO
WARD                 30 SALES          CHICAGO
FORD                 30 SALES          CHICAGO
SMITH                30 SALES          CHICAGO
SCOTT                30 SALES          CHICAGO
ADAMS                30 SALES          CHICAGO
MILLER               30 SALES          CHICAGO
KING                 40 OPERATIONS     BOSTON
BLAKE                40 OPERATIONS     BOSTON
CLARK                40 OPERATIONS     BOSTON
JONES                40 OPERATIONS     BOSTON
MARTIN               40 OPERATIONS     BOSTON
ALLEN                40 OPERATIONS     BOSTON
TURNER               40 OPERATIONS     BOSTON
JAMES                40 OPERATIONS     BOSTON
WARD                 40 OPERATIONS     BOSTON

ENAME           DEPTNO DNAME           LOC
---------- ---------- -------------- -------------
FORD                 40 OPERATIONS     BOSTON
SMITH                40 OPERATIONS     BOSTON
SCOTT                40 OPERATIONS     BOSTON
ADAMS                40 OPERATIONS     BOSTON
MILLER               40 OPERATIONS     BOSTON

56 rows selected.

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2* FROM Emp, Dept
SQL> /
```

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

………

```
ENAME         DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING              10 ACCOUNTING     NEW YORK
BLAKE             10 ACCOUNTING     NEW YORK
CLARK             10 ACCOUNTING     NEW YORK
JONES             10 ACCOUNTING     NEW YORK
MARTIN            10 ACCOUNTING     NEW YORK
ALLEN             10 ACCOUNTING     NEW YORK
TURNER            10 ACCOUNTING     NEW YORK
JAMES             10 ACCOUNTING     NEW YORK
WARD              10 ACCOUNTING     NEW YORK
FORD              10 ACCOUNTING     NEW YORK
SMITH             10 ACCOUNTING     NEW YORK
SCOTT             10 ACCOUNTING     NEW YORK
ADAMS             10 ACCOUNTING     NEW YORK
MILLER            10 ACCOUNTING     NEW YORK
KING              20 RESEARCH       DALLAS
BLAKE             20 RESEARCH       DALLAS
CLARK             20 RESEARCH       DALLAS

ENAME         DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
JONES             20 RESEARCH       DALLAS
MARTIN            20 RESEARCH       DALLAS
ALLEN             20 RESEARCH       DALLAS
TURNER            20 RESEARCH       DALLAS
JAMES             20 RESEARCH       DALLAS
WARD              20 RESEARCH       DALLAS
FORD              20 RESEARCH       DALLAS
SMITH             20 RESEARCH       DALLAS
SCOTT             20 RESEARCH       DALLAS
ADAMS             20 RESEARCH       DALLAS
MILLER            20 RESEARCH       DALLAS
KING              30 SALES          CHICAGO
BLAKE             30 SALES          CHICAGO
CLARK             30 SALES          CHICAGO
JONES             30 SALES          CHICAGO
MARTIN            30 SALES          CHICAGO
ALLEN             30 SALES          CHICAGO

ENAME         DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
TURNER            30 SALES          CHICAGO
JAMES             30 SALES          CHICAGO
WARD              30 SALES          CHICAGO
FORD              30 SALES          CHICAGO
SMITH             30 SALES          CHICAGO
SCOTT             30 SALES          CHICAGO
ADAMS             30 SALES          CHICAGO
MILLER            30 SALES          CHICAGO
KING              40 OPERATIONS     BOSTON
BLAKE             40 OPERATIONS     BOSTON
```

```
CLARK                40 OPERATIONS     BOSTON
JONES                40 OPERATIONS     BOSTON
MARTIN               40 OPERATIONS     BOSTON
ALLEN                40 OPERATIONS     BOSTON
TURNER               40 OPERATIONS     BOSTON
JAMES                40 OPERATIONS     BOSTON
WARD                 40 OPERATIONS     BOSTON

ENAME            DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
FORD                 40 OPERATIONS     BOSTON
SMITH                40 OPERATIONS     BOSTON
SCOTT                40 OPERATIONS     BOSTON
ADAMS                40 OPERATIONS     BOSTON
MILLER               40 OPERATIONS     BOSTON

56 rows selected.

SQL> cl scr

SQL> SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp CROSS JOIN Dept
  3  WHERE Emp.Deptno = Dept.Deptno;

ENAME            DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING                 10 ACCOUNTING     NEW YORK
BLAKE                30 SALES          CHICAGO
CLARK                10 ACCOUNTING     NEW YORK
JONES                20 RESEARCH       DALLAS
MARTIN               30 SALES          CHICAGO
ALLEN                30 SALES          CHICAGO
TURNER               30 SALES          CHICAGO
JAMES                30 SALES          CHICAGO
WARD                 30 SALES          CHICAGO
FORD                 20 RESEARCH       DALLAS
SMITH                20 RESEARCH       DALLAS
SCOTT                20 RESEARCH       DALLAS
ADAMS                20 RESEARCH       DALLAS
MILLER               10 ACCOUNTING     NEW YORK

14 rows selected.

SQL> cl scr

SQL> SELECT Ename, Deptno, Dname, Loc
  2  FROM Emp NATURAL JOIN Dept;

ENAME            DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING                 10 ACCOUNTING     NEW YORK
BLAKE                30 SALES          CHICAGO
```

```
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
ADAMS              20 RESEARCH       DALLAS
MILLER             10 ACCOUNTING     NEW YORK

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2* FROM Emp NATURAL JOIN Dept
SQL> /
SELECT Ename, Dept.Deptno, Dname, Loc
               *
ERROR at line 1:
ORA-25155: column used in NATURAL join cannot have qualifier


SQL> cl scr

SQL> SELECT Ename, Deptno, Dname, Loc
  2  FROM Emp JOIN Dept
  3  USING(Deptno);

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              30 SALES          CHICAGO
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
ADAMS              20 RESEARCH       DALLAS
MILLER             10 ACCOUNTING     NEW YORK

14 rows selected.
```

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```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Dname, Loc
  2  FROM Emp INNER JOIN Dept
  3* USING(Deptno)
SQL> /

ENAME            DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING             10 ACCOUNTING     NEW YORK
BLAKE            30 SALES          CHICAGO
CLARK            10 ACCOUNTING     NEW YORK
JONES            20 RESEARCH       DALLAS
MARTIN           30 SALES          CHICAGO
ALLEN            30 SALES          CHICAGO
TURNER           30 SALES          CHICAGO
JAMES            30 SALES          CHICAGO
WARD             30 SALES          CHICAGO
FORD             20 RESEARCH       DALLAS
SMITH            20 RESEARCH       DALLAS
SCOTT            20 RESEARCH       DALLAS
ADAMS            20 RESEARCH       DALLAS
MILLER           10 ACCOUNTING     NEW YORK

14 rows selected.

SQL> cl scr

SQL> SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp INNER JOIN Dept
  3  ON Emp.Deptno = Dept.Deptno;

ENAME            DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING             10 ACCOUNTING     NEW YORK
BLAKE            30 SALES          CHICAGO
CLARK            10 ACCOUNTING     NEW YORK
JONES            20 RESEARCH       DALLAS
MARTIN           30 SALES          CHICAGO
ALLEN            30 SALES          CHICAGO
TURNER           30 SALES          CHICAGO
JAMES            30 SALES          CHICAGO
WARD             30 SALES          CHICAGO
FORD             20 RESEARCH       DALLAS
SMITH            20 RESEARCH       DALLAS
SCOTT            20 RESEARCH       DALLAS
ADAMS            20 RESEARCH       DALLAS
MILLER           10 ACCOUNTING     NEW YORK

14 rows selected.
```

```
SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  E.Ename Employee,
  3  M.Ename Manager
  4  FROM
  5  Emp E INNER JOIN Emp M
  6* ON(E.MGR = M.Empno)
SQL> /

EMPLOYEE        MANAGER
-------------- ---------------
JONES           KING
CLARK           KING
BLAKE           KING
WARD            BLAKE
JAMES           BLAKE
TURNER          BLAKE
ALLEN           BLAKE
MARTIN          BLAKE
MILLER          CLARK
SCOTT           JONES
FORD            JONES
SMITH           FORD
ADAMS           SCOTT

13 rows selected.

SQL> cl scr

SQL> SELECT Ename, Sal, Grade, Dept.Deptno, Dname
  2  FROM Emp JOIN Dept
  3  ON Emp.Deptno = Dept.Deptno
  4  JOIN SalGrade
  5  ON Emp.Sal BETWEEN LoSal AND HiSal;

ENAME            SAL      GRADE    DEPTNO DNAME
---------- ---------- ---------- ---------- --------------
SMITH            800        1         20 RESEARCH
JAMES            950        1         30 SALES
ADAMS           1100        1         20 RESEARCH
WARD            1250        2         30 SALES
MARTIN          1250        2         30 SALES
MILLER          1300        2         10 ACCOUNTING
TURNER          1500        3         30 SALES
ALLEN           1600        3         30 SALES
CLARK           2450        4         10 ACCOUNTING
BLAKE           2850        4         30 SALES
JONES           2975        4         20 RESEARCH
FORD            3000        4         20 RESEARCH
SCOTT           3000        4         20 RESEARCH
```

```
KING              5000           5        10 ACCOUNTING

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Sal, Grade, Deptno, Dname
  2  FROM Emp NATURAL JOIN Dept
  3  JOIN SalGrade
  4* ON Emp.Sal BETWEEN LoSal AND HiSal
SQL> /

ENAME            SAL      GRADE     DEPTNO DNAME
---------- ---------- ---------- ---------- --------------
SMITH            800           1        20 RESEARCH
JAMES            950           1        30 SALES
ADAMS           1100           1        20 RESEARCH
WARD            1250           2        30 SALES
MARTIN          1250           2        30 SALES
MILLER          1300           2        10 ACCOUNTING
TURNER          1500           3        30 SALES
ALLEN           1600           3        30 SALES
CLARK           2450           4        10 ACCOUNTING
BLAKE           2850           4        30 SALES
JONES           2975           4        20 RESEARCH
FORD            3000           4        20 RESEARCH
SCOTT           3000           4        20 RESEARCH
KING            5000           5        10 ACCOUNTING

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Sal, Grade, Deptno, Dname
  2  FROM Emp INNER JOIN Dept
  3  USING(Deptno)
  4  JOIN SalGrade
  5* ON Emp.Sal BETWEEN LoSal AND HiSal
SQL> /

ENAME            SAL      GRADE     DEPTNO DNAME
---------- ---------- ---------- ---------- --------------
SMITH            800           1        20 RESEARCH
JAMES            950           1        30 SALES
ADAMS           1100           1        20 RESEARCH
WARD            1250           2        30 SALES
MARTIN          1250           2        30 SALES
MILLER          1300           2        10 ACCOUNTING
TURNER          1500           3        30 SALES
ALLEN           1600           3        30 SALES
```

```
CLARK               2450        4       10 ACCOUNTING
BLAKE               2850        4       30 SALES
JONES               2975        4       20 RESEARCH
FORD                3000        4       20 RESEARCH
SCOTT               3000        4       20 RESEARCH
KING                5000        5       10 ACCOUNTING


14 rows selected.

SQL> SELECT E.Ename, M.Ename, Sal, Grade, D.Deptno, Dname
  2  FROM
  3  Emp E INNER JOIN Dept D
  4  ON E.Deptno = D.Deptno
  5  INNER JOIN Emp M
  6  ON E.Empno = M.MGR
  7  INNER JOIN SalGrade S
  8  ON E.Sal BETWEEN LoSal AND HiSal;
SELECT E.Ename, M.Ename, Sal, Grade, D.Deptno, Dname
                         *
ERROR at line 1:
ORA-00918: column ambiguously defined


SQL> ED
Wrote file afiedt.buf

  1  SELECT E.Ename, M.Ename, E.Sal, Grade, D.Deptno, Dname
  2  FROM
  3  Emp E INNER JOIN Dept D
  4  ON E.Deptno = D.Deptno
  5  INNER JOIN Emp M
  6  ON E.Empno = M.MGR
  7  INNER JOIN SalGrade S
  8* ON E.Sal BETWEEN LoSal AND HiSal
SQL> /

ENAME      ENAME             SAL      GRADE     DEPTNO DNAME
---------- ---------- ---------- ---------- ---------- --------------
KING       BLAKE            5000          5         10 ACCOUNTING
KING       CLARK            5000          5         10 ACCOUNTING
KING       JONES            5000          5         10 ACCOUNTING
BLAKE      MARTIN           2850          4         30 SALES
BLAKE      ALLEN            2850          4         30 SALES
BLAKE      TURNER           2850          4         30 SALES
BLAKE      JAMES            2850          4         30 SALES
BLAKE      WARD             2850          4         30 SALES
JONES      FORD             2975          4         20 RESEARCH
FORD       SMITH            3000          4         20 RESEARCH
JONES      SCOTT            2975          4         20 RESEARCH
SCOTT      ADAMS            3000          4         20 RESEARCH
CLARK      MILLER           2450          4         10 ACCOUNTING
```

```
13 rows selected.

SQL> cl scr

SQL> SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp RIGHT OUTER JOIN Dept
  3  ON Emp.Deptno = Dept.Deptno;

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              30 SALES          CHICAGO
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
ADAMS              20 RESEARCH       DALLAS
MILLER             10 ACCOUNTING     NEW YORK
                   40 OPERATIONS     BOSTON

15 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Dept RIGHT OUTER JOIN Emp
  3* ON Emp.Deptno = Dept.Deptno
SQL> /

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
MILLER             10 ACCOUNTING     NEW YORK
CLARK              10 ACCOUNTING     NEW YORK
KING               10 ACCOUNTING     NEW YORK
ADAMS              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
FORD               20 RESEARCH       DALLAS
JONES              20 RESEARCH       DALLAS
WARD               30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
MARTIN             30 SALES          CHICAGO
BLAKE              30 SALES          CHICAGO
```

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```
14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Dept LEFT OUTER JOIN Emp
  3* ON Emp.Deptno = Dept.Deptno
SQL> /

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              30 SALES          CHICAGO
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
SCOTT              20 RESEARCH       DALLAS
ADAMS              20 RESEARCH       DALLAS
MILLER             10 ACCOUNTING     NEW YORK
                   40 OPERATIONS     BOSTON

15 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Dept FULL OUTER JOIN Emp
  3* ON Emp.Deptno = Dept.Deptno
SQL> /

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
BLAKE              30 SALES          CHICAGO
CLARK              10 ACCOUNTING     NEW YORK
JONES              20 RESEARCH       DALLAS
MARTIN             30 SALES          CHICAGO
ALLEN              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO
JAMES              30 SALES          CHICAGO
WARD               30 SALES          CHICAGO
FORD               20 RESEARCH       DALLAS
SMITH              20 RESEARCH       DALLAS
```

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```
SCOTT               20 RESEARCH       DALLAS
ADAMS               20 RESEARCH       DALLAS
MILLER              10 ACCOUNTING     NEW YORK
                    40 OPERATIONS     BOSTON


15 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Dept.Deptno, Dname, Loc
  2  FROM Emp FULL OUTER JOIN Dept
  3* ON Emp.Deptno = Dept.Deptno
SQL> /

ENAME           DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING                10 ACCOUNTING     NEW YORK
BLAKE               30 SALES          CHICAGO
CLARK               10 ACCOUNTING     NEW YORK
JONES               20 RESEARCH       DALLAS
MARTIN              30 SALES          CHICAGO
ALLEN               30 SALES          CHICAGO
TURNER              30 SALES          CHICAGO
JAMES               30 SALES          CHICAGO
WARD                30 SALES          CHICAGO
FORD                20 RESEARCH       DALLAS
SMITH               20 RESEARCH       DALLAS
SCOTT               20 RESEARCH       DALLAS
ADAMS               20 RESEARCH       DALLAS
MILLER              10 ACCOUNTING     NEW YORK
                    40 OPERATIONS     BOSTON


15 rows selected.

SQL> SPOOL OFF
```