```
SQL> SELECT ENAME, DEPT.DEPTNO, DNAME, LOC
  2  FROM EMP , DEPT;

ENAME           DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
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
FORD              40 OPERATIONS     BOSTON
SMITH             40 OPERATIONS     BOSTON
SCOTT             40 OPERATIONS     BOSTON
ADAMS             40 OPERATIONS     BOSTON
MILLER            40 OPERATIONS     BOSTON
KING              10 ACCOUNTING     NEW YORK
BLAKE             10 ACCOUNTING     NEW YORK
CLARK             10 ACCOUNTING     NEW YORK

ENAME           DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
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
JONES             20 RESEARCH       DALLAS
MARTIN            20 RESEARCH       DALLAS
ALLEN             20 RESEARCH       DALLAS

ENAME           DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
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
TURNER                    30 SALES          CHICAGO
JAMES                     30 SALES          CHICAGO
WARD                      30 SALES          CHICAGO

ENAME              DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
FORD                      30 SALES          CHICAGO
SMITH                     30 SALES          CHICAGO
SCOTT                     30 SALES          CHICAGO
ADAMS                     30 SALES          CHICAGO
MILLER                    30 SALES          CHICAGO

56 rows selected.

SQL> SELECT ENAME, DEPT.DEPTNO, DNAME, LOC
  2  FROM EMP CROSS JOIN DEPT;

ENAME              DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
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
FORD                      40 OPERATIONS     BOSTON
SMITH                     40 OPERATIONS     BOSTON
SCOTT                     40 OPERATIONS     BOSTON
ADAMS                     40 OPERATIONS     BOSTON
MILLER                    40 OPERATIONS     BOSTON
KING                      10 ACCOUNTING     NEW YORK
BLAKE                     10 ACCOUNTING     NEW YORK
CLARK                     10 ACCOUNTING     NEW YORK

ENAME              DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
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
JONES                20 RESEARCH       DALLAS
MARTIN               20 RESEARCH       DALLAS
ALLEN                20 RESEARCH       DALLAS

ENAME            DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
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
TURNER               30 SALES          CHICAGO
JAMES                30 SALES          CHICAGO
WARD                 30 SALES          CHICAGO

ENAME            DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
FORD                 30 SALES          CHICAGO
SMITH                30 SALES          CHICAGO
SCOTT                30 SALES          CHICAGO
ADAMS                30 SALES          CHICAGO
MILLER               30 SALES          CHICAGO

56 rows selected.

SQL> SELECT ENAME, DEPT.DEPTNO, DNAME, LOC
  2  FROM EMP , DEPT
  3  WHERE EMP.DEPTNO=DEPT.DEPTNO;

ENAME            DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING                 10 ACCOUNTING     NEW YORK
CLARK                10 ACCOUNTING     NEW YORK
MILLER               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
ALLEN                  30 SALES          CHICAGO
MARTIN                 30 SALES          CHICAGO
BLAKE                  30 SALES          CHICAGO
TURNER                 30 SALES          CHICAGO

14 rows selected.

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
CLARK                  10 ACCOUNTING     NEW YORK
MILLER                 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
ALLEN                  30 SALES          CHICAGO
MARTIN                 30 SALES          CHICAGO
BLAKE                  30 SALES          CHICAGO
TURNER                 30 SALES          CHICAGO

14 rows selected.

SQL> SELECT ENAME, DEPTNO, DNAME, LOC
  2  FROM EMP NATURAL JOIN DEPT;

ENAME                  DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING                   10 ACCOUNTING     NEW YORK
CLARK                  10 ACCOUNTING     NEW YORK
MILLER                 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
ALLEN                  30 SALES          CHICAGO
MARTIN                 30 SALES          CHICAGO
BLAKE                  30 SALES          CHICAGO
TURNER                 30 SALES          CHICAGO
```

```
14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   ENAME,
  3   DEPT.DEPTNO,
  4   DNAME,
  5   LOC
  6*  FROM EMP NATURAL JOIN DEPT
SQL> /
DEPT.DEPTNO,
*
ERROR at line 3:
ORA-25155: column used in NATURAL join cannot have qualifier


SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   EMP.ENAME,
  3   DEPTNO,
  4   DEPT.DNAME,
  5   DEPT.LOC
  6*  FROM EMP NATURAL JOIN DEPT
SQL> /

ENAME          DEPTNO DNAME          LOC
---------- ---------- -------------- -------------
KING               10 ACCOUNTING     NEW YORK
CLARK              10 ACCOUNTING     NEW YORK
MILLER             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
ALLEN              30 SALES          CHICAGO
MARTIN             30 SALES          CHICAGO
BLAKE              30 SALES          CHICAGO
TURNER             30 SALES          CHICAGO

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   EMP.ENAME,
```

```
   3    EMP.JOB,
   4    EMP.SAL,
   5    DEPTNO,
   6    DEPT.DNAME,
   7    DEPT.LOC
   8    FROM EMP INNER JOIN DEPT
   9*   ON EMP.DEPTNO = DEPT.DEPTNO
SQL> /
DEPTNO,
*
ERROR at line 5:
ORA-00918: column ambiguously defined


SQL> ED
Wrote file afiedt.buf

   1    SELECT
   2    EMP.ENAME,
   3    EMP.JOB,
   4    EMP.SAL,
   5    DEPT.DEPTNO,
   6    DEPT.DNAME,
   7    DEPT.LOC
   8    FROM EMP INNER JOIN DEPT
   9*   ON EMP.DEPTNO = DEPT.DEPTNO
SQL> /

ENAME       JOB            SAL    DEPTNO DNAME          LOC
---------- --------- ---------- --------- ------------- -------------
KING        PRESIDENT     5000        10 ACCOUNTING     NEW YORK
CLARK       MANAGER       2450        10 ACCOUNTING     NEW YORK
MILLER      CLERK         1300        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
ALLEN       SALESMAN      1600        30 SALES          CHICAGO
MARTIN      SALESMAN      1250        30 SALES          CHICAGO
BLAKE       MANAGER       2850        30 SALES          CHICAGO
TURNER      SALESMAN      1500        30 SALES          CHICAGO

14 rows selected.

SQL> ED
Wrote file afiedt.buf

   1    SELECT
   2    EMP.ENAME,
   3    EMP.JOB,
```

```
   4    EMP.SAL,
   5    DEPT.DEPTNO,
   6    DEPT.DNAME,
   7    DEPT.LOC
   8    FROM EMP INNER JOIN DEPT
   9*   USING(DEPTNO)
SQL> /
DEPT.DEPTNO,
     *
ERROR at line 5:
ORA-25154: column part of USING clause cannot have qualifier


SQL> ED
Wrote file afiedt.buf

   1    SELECT
   2    EMP.ENAME,
   3    EMP.JOB,
   4    EMP.SAL,
   5    DEPTNO,
   6    DEPT.DNAME,
   7    DEPT.LOC
   8    FROM EMP INNER JOIN DEPT
   9*   USING(DEPTNO)
SQL> /

ENAME        JOB            SAL     DEPTNO DNAME          LOC
---------- --------- ---------- ---------- -------------- -------------
KING        PRESIDENT      5000         10 ACCOUNTING     NEW YORK
CLARK       MANAGER        2450         10 ACCOUNTING     NEW YORK
MILLER      CLERK          1300         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
ALLEN       SALESMAN       1600         30 SALES          CHICAGO
MARTIN      SALESMAN       1250         30 SALES          CHICAGO
BLAKE       MANAGER        2850         30 SALES          CHICAGO
TURNER      SALESMAN       1500         30 SALES          CHICAGO

14 rows selected.

SQL> ED
Wrote file afiedt.buf

   1    SELECT
   2    EMP.ENAME,
   3    EMP.JOB,
   4    EMP.SAL,
```

```
    5  DEPTNO,
    6  DEPT.DNAME,
    7  DEPT.LOC
    8  FROM EMP JOIN DEPT
    9* USING(DEPTNO)
SQL> /
```

ENAME	JOB	SAL	DEPTNO	DNAME	LOC
KING	PRESIDENT	5000	10	ACCOUNTING	NEW YORK
CLARK	MANAGER	2450	10	ACCOUNTING	NEW YORK
MILLER	CLERK	1300	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
ALLEN	SALESMAN	1600	30	SALES	CHICAGO
MARTIN	SALESMAN	1250	30	SALES	CHICAGO
BLAKE	MANAGER	2850	30	SALES	CHICAGO
TURNER	SALESMAN	1500	30	SALES	CHICAGO

```
14 rows selected.

SQL> ED
Wrote file afiedt.buf

    1  SELECT
    2  EMP.ENAME,
    3  EMP.JOB,
    4  EMP.SAL,
    5  DEPTNO,
    6  DEPT.DNAME,
    7  DEPT.LOC
    8  FROM EMP JOIN DEPT
    9* ON EMP.DEPTNO = DEPT.DEPTNO
SQL> /
DEPTNO,
*
ERROR at line 5:
ORA-00918: column ambiguously defined


SQL> ED
Wrote file afiedt.buf

    1  SELECT
    2  EMP.ENAME,
    3  EMP.JOB,
    4  EMP.SAL,
    5  DEPT.DEPTNO,
```

```
    6   DEPT.DNAME,
    7   DEPT.LOC
    8   FROM EMP JOIN DEPT
    9*  ON EMP.DEPTNO = DEPT.DEPTNO
SQL> /

ENAME        JOB            SAL    DEPTNO DNAME          LOC
---------- --------- ---------- ---------- -------------- -------------
KING         PRESIDENT     5000        10 ACCOUNTING     NEW YORK
CLARK        MANAGER       2450        10 ACCOUNTING     NEW YORK
MILLER       CLERK         1300        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
ALLEN        SALESMAN      1600        30 SALES          CHICAGO
MARTIN       SALESMAN      1250        30 SALES          CHICAGO
BLAKE        MANAGER       2850        30 SALES          CHICAGO
TURNER       SALESMAN      1500        30 SALES          CHICAGO

14 rows selected.

SQL> SELECT
    2   E.Ename EmpName,
    3   M.Ename MGRName
    4   FROM Emp E INNER JOIN Emp M
    5   ON E.MGR = M.Empno;

EMPNAM MGRNAME
------ ----------
SCOTT  JONES
FORD   JONES
JAMES  BLAKE
WARD   BLAKE
TURNER BLAKE
ALLEN  BLAKE
MARTIN BLAKE
MILLER CLARK
ADAMS  SCOTT
BLAKE  KING
CLARK  KING
JONES  KING
SMITH  FORD

13 rows selected.

SQL> SELECT
    2   Ename,
    3   Job,
    4   Dname,
```

```
    5  Loc,
    6  Grade
    7  From Emp E INNER JOIN Dept D
    8  ON E.Deptno = D.Deptno
    9  INNER JOIN SalGrade S
   10  ON E.Sal BETWEEN S.LoSal AND S.HiSal;
```

```
ENAME       JOB        DNAME          LOC              GRADE
---------- ---------- -------------- ------------- ----------
KING        PRESIDENT  ACCOUNTING     NEW YORK             5
FORD        ANALYST    RESEARCH       DALLAS               4
SCOTT       ANALYST    RESEARCH       DALLAS               4
JONES       MANAGER    RESEARCH       DALLAS               4
BLAKE       MANAGER    SALES          CHICAGO              4
CLARK       MANAGER    ACCOUNTING     NEW YORK             4
ALLEN       SALESMAN   SALES          CHICAGO              3
TURNER      SALESMAN   SALES          CHICAGO              3
MILLER      CLERK      ACCOUNTING     NEW YORK             2
WARD        SALESMAN   SALES          CHICAGO              2
MARTIN      SALESMAN   SALES          CHICAGO              2
ADAMS       CLERK      RESEARCH       DALLAS               1
JAMES       CLERK      SALES          CHICAGO              1
SMITH       CLERK      RESEARCH       DALLAS               1
```

14 rows selected.

```
SQL> SELECT ENAME, SAL, GRADE, DEPTNO, DNAME
  2  FROM EMP NATURAL JOIN DEPT
  3  JOIN SALGRADE
  4  ON EMP.SAL BETWEEN LOSAL AND HISAL;
```

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

14 rows selected.

```
SQL> 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;
```

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

14 rows selected.

SQL> SELECT
  2  Ename,
  3  D.Dname,
  4  Loc
  5  FROM Emp E RIGHT JOIN DEPT D
  6  ON E.Deptno = D.Deptno;
```

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

15 rows selected.

SQL> SELECT
  2  Ename,
  3  D.Dname,
  4  Loc
```

```
    5  FROM Emp E RIGHT OUTER JOIN DEPT D
    6  ON E.Deptno = D.Deptno;

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

15 rows selected.

SQL> SELECT
    2  Ename,
    3  D.Dname,
    4  Loc
    5  FROM DEPT D RIGHT OUTER JOIN Emp E
    6  ON E.Deptno = D.Deptno;

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

14 rows selected.

SQL> SELECT
    2  Ename,
    3  D.Dname,
    4  Loc
```

```
    5  FROM DEPT D LEFT OUTER JOIN Emp E
    6  ON E.Deptno = D.Deptno;

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

15 rows selected.

SQL> SELECT
    2  Ename,
    3  D.Dname,
    4  Loc
    5  FROM DEPT D FULL OUTER JOIN Emp E
    6  ON E.Deptno = D.Deptno;

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

15 rows selected.

SQL> ED
Wrote file afiedt.buf
```

```
  1   SELECT
  2   Ename,
  3   D.Dname,
  4   Loc
  5   FROM Emp E FULL OUTER JOIN DEPT D
  6*  ON E.Deptno = D.Deptno
SQL> /

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

15 rows selected.

SQL> SPOOL OFF
```