```
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
SQL > --WHERE Dept.Deptno = Emp.Deptno(+) AND Emp.Sal * 12(+) >= 25000
OUTER Join Principle With An Error As The The Extended OUTER Join is
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> /
```

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(F.55)

| ENAME | JOB | SAL | DEPTNO | DNAME | | |
|---|--|-------------|--------|------------|--|--|
| KING | PRESIDENT | 5000 | 10 | ACCOUNTING | | |
| MILLER | CLERK | 1300 | | ACCOUNTING | | |
| CLARK | MANAGER | 2450 | | ACCOUNTING | | |
| ADAMS | CLERK | 1100 | | RESEARCH | | |
| SCOTT | ANALYST | 3000 | | RESEARCH | | |
| SMITH | CLERK | 800 | | RESEARCH | | |
| FORD | ANALYST | 3000 | | RESEARCH | | |
| JONES | MANAGER | 2975 | | RESEARCH | | |
| WARD | SALESMAN | 1250 | | SALES | | |
| JAMES | CLERK | 950 | | SALES | | |
| TURNER | SALESMAN | 1500 | | SALES | | |
| ALLEN | SALESMAN | 1600 | | SALES | | |
| | SALESMAN | 1250 | | SALES | | |
| MARTIN BLAKE | | | | SALES | | |
| DLAKE | MANAGER | 2850 | | OPERATIONS | | |
| | | | 40 | OPERATIONS | | |
| | elected. RT INTO Dept SS(50, 'SHIPPI | NG', 'CHENN | AI'); | | | |
| 1 row crea | ated. | | 1/4 | | | |
| | RT INTO Dept SS(60, 'CARGO' | , 'MUMBAI') | | | | |
| 1 row crea | ated. | |) | | | |
| | RT INTO Dept SS(70, 'COURIE | R', 'DELHI' |); | | | |
| 1 row crea | ated. | | | | | |
| <pre>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;</pre> | | | | | | |
| ENAME | JOB | SAL | DEPTNO | DNAME | | |
| | | | | | | |
| KING | PRESIDENT | 5000 | | ACCOUNTING | | |
| MILLER | CLERK | 1300 | | ACCOUNTING | | |
| CLARK | MANAGER | 2450 | | ACCOUNTING | | |
| ADAMS | CLERK | 1100 | 20 | RESEARCH | | |
| SCOTT | ANALYST | 3000 | 20 | RESEARCH | | |
| SMITH | CLERK | 800 | 20 | RESEARCH | | |
| FORD | ANALYST | 3000 | 20 | RESEARCH | | |
| JONES | MANAGER | 2975 | | RESEARCH | | |
| WARD | SALESMAN | 1250 | 30 | SALES | | |
| | | | | | | |

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| 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 MILLER | PRESIDENT CLERK | 5000 | 10 | ACCOUNTING ACCOUNTING | NEW YORK 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 |
| 10° | | | | 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
                 10 ACCOUNTING
CLARK
MILLER
                 10 ACCOUNTING
SOL> 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
SOL> /
          DEPTNO DNAME
ENAME
                10 ACCOUNTING
CLARK
                 10 ACCOUNTING
KING
MILLER
                 10 ACCOUNTING
                  30 SALES
                   70 COURIER
                   20 RESEARCH
                   40 OPERATIONS
                   50 SHIPPING
                   60 CARGO
9 rows selected.
SOL> ED
Wrote file afiedt.buf
  1 SELECT
                  'NOT REQUESTED OR RECRUITED') Ename,
  2 NVL (E.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> /
                              DEPTNO DNAME
CLARK
                                   10 ACCOUNTING
KING
                                   10 ACCOUNTING
MILLER
                                   10 ACCOUNTING
```

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```
NOT REQUESTED OR RECRUITED
                                   30 SALES
NOT REQUESTED OR RECRUITED
                                   70 COURIER
NOT REQUESTED OR RECRUITED
                                  20 RESEARCH
                                  40 OPERATIONS
NOT REQUESTED OR RECRUITED
NOT REQUESTED OR RECRUITED
                                  50 SHIPPING
NOT REQUESTED OR RECRUITED
                                  60 CARGO
9 rows selected.
SQL> ED
Wrote file afiedt.buf
    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
SOL> /
                               DEPTNO DNAME
ENAME
                                   10 ACCOUNTING
KTNG
                                   10 ACCOUNTING
CLARK
MILLER
                                   10 ACCOUNTING
                                    20 RESEARCH
SMITH
SCOTT
                                    20 RESEARCH
                                   20 RESEARCH
ADAMS
FORD
                                   20 RESEARCH
JONES
                                   20 RESEARCH
                                   30 SALES
WARD
                                   30 SALES
JAMES
                                   30 SALES
TURNER
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
```

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.....

```
5 WHERE E.MGR = M.Empno(+);
EMPLOYEE MANAGER
JONES KING CLARK KING
BLAKE
         KING
         BLAKE
WARD
         BLAKE
JAMES
         BLAKE
TURNER
         BLAKE
ALLEN
         BLAKE
MARTIN
MILLER
         CLARK
SCOTT
         JONES
FORD
          JONES
SMITH
         FORD
          SCOTT
ADAMS
KING
          Supreme Authority
14 rows selected.
SQL> cl scr
SQL> SELECT
  2 C.Name, O.OrdID, I.ItemID, I.Itemtot,
  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
8.4 101.4
TKB SPORT SHOP
                                                   610
35 101.4
TKB SPORT SHOP
                                                   610
                                                                3
       101.4
SQL> cl scr
SQL> SELECT
  2 E.Ename EmpName,
  3 E.Deptno EmpDeptno,
  4 M.Ename MGRName,
```

E.Deptno = D.Deptno;

5 M.Deptno MGRDeptno

6 FROM Emp E, Dept D, Emp M 7 WHERE E.MGR = M.Empno AND

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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.

SOL> 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,

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.....

- 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
- 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 ACCOUNTING |
| CLARK | ACCOUNTING | NEW YORK | KING | |
| JONES | ACCOUNTING | NEW YORK CHICAGO | KING | ACCOUNTING |
| MARTIN | SALES | | 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 |

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..... SCOTT RESEARCH DALLAS JONES RESEARCH DALLAS SCOTT ADAMS RESEARCH RESEARCH RESEARCH DALLAS SCOTT RESEARCH
ACCOUNTING NEW YORK CLARK ACCOUNTING MILLER 13 rows selected. SOL> 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 SOL> / MGRNAME EMPNAME EMPDNAME EMPPLACE **MGRDNAME** CLARK ACCOUNTING NEW YORK KING ACCOUNTING SALES CHICAGO BLAKE WARD SALES JAMES SALES
TURNER SALES
ALLEN SALES
MARTIN SALES CHICAGO CHICAGO CHICAGO SALES BLAKE BLAKE SALES SALES BLAKE SALES CHICAGO BLAKE NEW YORK MILLER ACCOUNTING CLARK ACCOUNTING SCOTT RESEARCH DALLAS JONES RESEARCH DALLAS FORD RESEARCH JONES RESEARCH DALLAS RESEARCH SMITH RESEARCH FORD SCOTT DALLAS RESEARCH ADAMS RESEARCH 11 rows selected. SQL> SELECT 2 E.Ename EmpName, 3 DE.Dname EmpDname, 4 DE.Loc EmpLoc, M.Ename MGRName,
DM.Dname MGRDname FROM Emp E, Dept DE, Emp M, Dept DM WHERE E.MGR = M.Empno AND 9 E.Deptno = DE.Deptno AND 10 M.Deptno = DM.Deptno ORDER BY E.Deptno; EMPNAME EMPLOC MGRNAME MGRDNAME EMPDNAME ACCOUNTING NEW YORK CLARK ACCOUNTING

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| CLARK ACCOUNTING NEW YORK KING ACCOUNTING | |
|---|-------|
| | 2011 |
| FORD RESEARCH DALLAS JONES RESEAR | KCH |
| SCOTT RESEARCH DALLAS JONES RESEAR | RCH |
| SMITH RESEARCH DALLAS FORD RESEAR | RCH |
| ADAMS RESEARCH DALLAS SCOTT RESEAR | RCH |
| JONES RESEARCH DALLAS KING ACCOUN | NTING |
| 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 ACCOUN | NTING |

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.

SOL> 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
- 10* E.MGR = M.Empno

SQL> /

| EMPNAME | EMPSAL | EMPDNAME | MGRNAME | EMPSAL | MGRDNAME |
|---------|--------|------------|---------|--------|------------|
| BLAKE | 2850 | ACCOUNTING | KING | 5000 | ACCOUNTING |
| CLARK | | ACCOUNTING | KING | | 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 1100 RESEARCH SCOTT 1300 ACCOUNTING CLARK ADAMS 3000 RESEARCH MILLER 2450 ACCOUNTING

13 rows selected.

SOL> 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

SOL> /

| 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,
- E.Sal EmpSal,
- 4 M.Ename MGRName,
- 5 M.Sal MGRSal,
- DM.Dname MGRDname
- 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 ______ ____

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| 2850 K | KING | 5000 | ACCOUNTING |
|--------|--|---|---|
| 2450 K | KING | 5000 | ACCOUNTING |
| 2975 K | KING | 5000 | ACCOUNTING |
| .250 E | BLAKE | 2850 | SALES |
| .600 E | BLAKE | 2850 | SALES |
| .500 E | BLAKE | 2850 | SALES |
| 950 E | BLAKE | 2850 | SALES |
| .250 E | BLAKE | 2850 | SALES |
| 3000 J | JONES | 2975 | RESEARCH |
| 800 F | FORD | 3000 | RESEARCH |
| 3000 J | JONES | 2975 | RESEARCH |
| .100 S | SCOTT | 3000 | RESEARCH |
| .300 C | CLARK | 2450 | ACCOUNTING |
| 3 | 450 H 975 H 250 H 600 H 500 H 950 H 250 H 000 R 800 H 000 R | 600 BLAKE 500 BLAKE 950 BLAKE 250 BLAKE 000 JONES 800 FORD 000 JONES 100 SCOTT | 450 KING 5000 975 KING 5000 250 BLAKE 2850 600 BLAKE 2850 500 BLAKE 2850 950 BLAKE 2850 250 BLAKE 2850 000 JONES 2975 800 FORD 3000 000 JONES 2975 100 SCOTT 3000 |

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> /

| Ξ |
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| ING |
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| |

13 rows selected.

SQL> cl scr

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.....

- 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,
 - DE.Deptno MGRDeptno
 - 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(+);

| ~ | Manager 5 Dept | FORMAL ALD | | | | |
|----------------|--|---------------|---------------------------------------|-----------|--|--|
| SQL> SELECT | | | | | | |
| | NVL(E.Ename, 'Not Recruited') EmpName, | | | | | |
| | EmpDname, | MCDN | | | | |
| | ame, 'NULL Mana | | | | | |
| | name, 'Not Recr | uited') MGRDn | ame, | | | |
| _ | o MGRDeptno | | | | | |
| _ | E, Dept DE, Em | | | | | |
| | Deptno(+) = DE. | - | | | | |
| _ | = DM.Deptno(+) | AND | | | | |
| 10 E.MGR = I | M.Empno(+); | | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | | | |
| EMPNAME | EMPDNAME | MGRNAME | MGRDNAME | MGRDEPTNO | | |
| | 7.000 INTERNO | | A COOLINEE NO | 10 | | |
| | ACCOUNTING | - | ACCOUNTING | 10 | | |
| BLAKE | | | ACCOUNTING | 30 | | |
| | ACCOUNTING | | ACCOUNTING | 10 | | |
| | 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,
 - E.Sal EmpSal,
 - SE.Grade EmpGrade,
 - 5 M.Sal MGRSal,
 - 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

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

| EMPNAME | EMPSAL | EMPGRADE | MGRSAL | MGRGRADE | MGRDNAME |
|---------|--------|----------|--------|----------|------------|
| CMTIII | | 1 | 3000 | | DECEADOU |
| SMITH | 800 | Τ | 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 | _ | RESEARCH | DALLAS |
| SMITH | _ | RESEARCH | DALLAS |
| SCOTT | | RESEARCH | DALLAS |
| ADAMS | | RESEARCH | DALLAS |
| _ | _ | RESEARCH | |
| MILLER | _ | | DALLAS |
| KING | | SALES | CHICAGO |
| BLAKE | | SALES | CHICAGO |
| CLARK | | SALES | CHICAGO |
| JONES | | SALES | CHICAGO |
| MARTIN | | 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 | | SALES | CHICAGO |
| MILLER | | SALES | CHICAGO |
| KING | | OPERATIONS | BOSTON |
| BLAKE | | OPERATIONS | BOSTON |
| CLARK | | OPERATIONS | BOSTON |
| JONES | | OPERATIONS OPERATIONS | BOSTON |
| | | | |
| MARTIN | | OPERATIONS | BOSTON |
| ALLEN | | OPERATIONS | BOSTON |
| TURNER | | OPERATIONS | BOSTON |
| JAMES | | 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 |
| 10, | | | |
| 56 rows selec | cted. | | |
| | | | |
| SQL> cl scr | | | |
| V | | | |
| SQL> ED | | | |
| Wrote file af | fiedt.buf | | |
| | | | |

1 SELECT Ename, Dept.Deptno, Dname, Loc

2* FROM Emp, Dept

SQL> /

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

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| 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.

SOL> cl scr

SQL> SELECT Ename, Deptno, Dname, Loc

2 FROM Emp NATURAL JOIN Dept;

| ENAME | DEPTNO | DNAME | LOC |
|-------|--------|------------|----------|
| KING | | ACCOUNTING | NEW YORK |
| BLAKE | | SALES | CHICAGO |

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CLARK 10 ACCOUNTING NEW YORK JONES 20 RESEARCH DALLAS MARTIN 30 SALES CHICAGO ALLEN 30 SALES CHICAGO TURNER 30 SALES CHICAGO 30 SALES CHICAGO JAMES WARD 30 SALES CHICAGO FORD 20 RESEARCH DALLAS 20 RESEARCH DALLAS SMITH SCOTT 20 RESEARCH DALLAS 20 RESEARCH ADAMS 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 |
| | | 4 | |

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 BLAKE CLARK JONES MARTIN ALLEN TURNER JAMES WARD | 10 30 10 20 30 30 30 30 30 30 | ACCOUNTING SALES ACCOUNTING RESEARCH SALES SALES SALES SALES SALES SALES | NEW YORK CHICAGO NEW YORK DALLAS CHICAGO CHICAGO CHICAGO CHICAGO CHICAGO CHICAGO |
| FORD | 20 | RESEARCH | DALLAS |
| | | | |
| SMITH SCOTT | 20 20 | RESEARCH RESEARCH | DALLAS 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
- 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 |
| ı | MILLER | 1300 | 2 | 10 | ACCOUNTING |
| Ì | TURNER | 1500 | 3 | 30 | SALES |
| 7 | 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 |
| | | | | | |

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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 |
| | | | | |

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

SOL> 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 |

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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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SQL> ED

Wrote file afiedt.buf

14 rows selected.

- 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 BLAKE | 10 | ACCOUNTING SALES | NEW YORK 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

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