

Spool Generated For Class of Oracle By Satish K Yellanki

```
SQL> cl scr
```

```
SQL> SET VERIFY OFF
```

```
SQL> cl scr
```

```
SQL> SELECT Ename, Sal, Job, Dname, Loc  
2 FROM Emp, Dept;
```

ENAME	SAL	JOB	DNAME	LOC
KING	5000	PRESIDENT	ACCOUNTING	NEW YORK
BLAKE	2850	MANAGER	ACCOUNTING	NEW YORK
CLARK	2450	MANAGER	ACCOUNTING	NEW YORK
JONES	2975	MANAGER	ACCOUNTING	NEW YORK
MARTIN	1250	SALESMAN	ACCOUNTING	NEW YORK
ALLEN	1600	SALESMAN	ACCOUNTING	NEW YORK
TURNER	1500	SALESMAN	ACCOUNTING	NEW YORK
JAMES	950	CLERK	ACCOUNTING	NEW YORK
WARD	1250	SALESMAN	ACCOUNTING	NEW YORK
FORD	3000	ANALYST	ACCOUNTING	NEW YORK
SMITH	800	CLERK	ACCOUNTING	NEW YORK

ENAME	SAL	JOB	DNAME	LOC
SCOTT	3000	ANALYST	ACCOUNTING	NEW YORK
ADAMS	1100	CLERK	ACCOUNTING	NEW YORK
MILLER	1300	CLERK	ACCOUNTING	NEW YORK
KING	5000	PRESIDENT	RESEARCH	DALLAS
BLAKE	2850	MANAGER	RESEARCH	DALLAS
CLARK	2450	MANAGER	RESEARCH	DALLAS
JONES	2975	MANAGER	RESEARCH	DALLAS
MARTIN	1250	SALESMAN	RESEARCH	DALLAS
ALLEN	1600	SALESMAN	RESEARCH	DALLAS
TURNER	1500	SALESMAN	RESEARCH	DALLAS
JAMES	950	CLERK	RESEARCH	DALLAS

ENAME	SAL	JOB	DNAME	LOC
WARD	1250	SALESMAN	RESEARCH	DALLAS
FORD	3000	ANALYST	RESEARCH	DALLAS
SMITH	800	CLERK	RESEARCH	DALLAS
SCOTT	3000	ANALYST	RESEARCH	DALLAS
ADAMS	1100	CLERK	RESEARCH	DALLAS
MILLER	1300	CLERK	RESEARCH	DALLAS
KING	5000	PRESIDENT	SALES	CHICAGO
BLAKE	2850	MANAGER	SALES	CHICAGO
CLARK	2450	MANAGER	SALES	CHICAGO
JONES	2975	MANAGER	SALES	CHICAGO
MARTIN	1250	SALESMAN	SALES	CHICAGO

ENAME	SAL	JOB	DNAME	LOC
ALLEN	1600	SALESMAN	SALES	CHICAGO
TURNER	1500	SALESMAN	SALES	CHICAGO
JAMES	950	CLERK	SALES	CHICAGO
WARD	1250	SALESMAN	SALES	CHICAGO

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```

FORD          3000 ANALYST  SALES      CHICAGO
SMITH         800  CLERK    SALES      CHICAGO
SCOTT         3000 ANALYST  SALES      CHICAGO
ADAMS         1100 CLERK    SALES      CHICAGO
MILLER        1300 CLERK    SALES      CHICAGO
KING          5000 PRESIDENT OPERATIONS BOSTON
BLAKE         2850 MANAGER  OPERATIONS BOSTON
  
```

```

-----
ENAME          SAL JOB          DNAME          LOC
-----
CLARK          2450 MANAGER  OPERATIONS    BOSTON
JONES          2975 MANAGER  OPERATIONS    BOSTON
MARTIN         1250 SALESMAN OPERATIONS    BOSTON
ALLEN          1600 SALESMAN OPERATIONS    BOSTON
TURNER         1500 SALESMAN OPERATIONS    BOSTON
JAMES          950  CLERK    OPERATIONS    BOSTON
WARD           1250 SALESMAN OPERATIONS    BOSTON
FORD           3000 ANALYST  OPERATIONS    BOSTON
SMITH          800  CLERK    OPERATIONS    BOSTON
SCOTT          3000 ANALYST  OPERATIONS    BOSTON
ADAMS          1100 CLERK    OPERATIONS    BOSTON
  
```

```

-----
ENAME          SAL JOB          DNAME          LOC
-----
MILLER         1300 CLERK    OPERATIONS    BOSTON
  
```

56 rows selected.

SQL> ED

Wrote file afiedt.buf

```

  1  SELECT Ename, Sal, Job
  2* FROM Emp, Dept
SQL> /
  
```

```

-----
ENAME          SAL JOB          DNAME          LOC
-----
KING           5000 PRESIDENT
KING           5000 PRESIDENT
KING           5000 PRESIDENT
KING           5000 PRESIDENT
BLAKE          2850 MANAGER
BLAKE          2850 MANAGER
BLAKE          2850 MANAGER
BLAKE          2850 MANAGER
CLARK          2450 MANAGER
CLARK          2450 MANAGER
CLARK          2450 MANAGER
  
```

```

-----
ENAME          SAL JOB          DNAME          LOC
-----
CLARK          2450 MANAGER
JONES          2975 MANAGER
JONES          2975 MANAGER
JONES          2975 MANAGER
JONES          2975 MANAGER
  
```

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MARTIN	1250	SALESMAN
MARTIN	1250	SALESMAN
MARTIN	1250	SALESMAN
MARTIN	1250	SALESMAN
ALLEN	1600	SALESMAN
ALLEN	1600	SALESMAN

ENAME	SAL	JOB
-----	-----	-----
ALLEN	1600	SALESMAN
ALLEN	1600	SALESMAN
TURNER	1500	SALESMAN
TURNER	1500	SALESMAN
TURNER	1500	SALESMAN
TURNER	1500	SALESMAN
JAMES	950	CLERK
JAMES	950	CLERK
JAMES	950	CLERK
JAMES	950	CLERK
WARD	1250	SALESMAN

ENAME	SAL	JOB
-----	-----	-----
WARD	1250	SALESMAN
WARD	1250	SALESMAN
WARD	1250	SALESMAN
FORD	3000	ANALYST
FORD	3000	ANALYST
FORD	3000	ANALYST
FORD	3000	ANALYST
SMITH	800	CLERK
SMITH	800	CLERK
SMITH	800	CLERK
SMITH	800	CLERK

ENAME	SAL	JOB
-----	-----	-----
SCOTT	3000	ANALYST
SCOTT	3000	ANALYST
SCOTT	3000	ANALYST
SCOTT	3000	ANALYST
ADAMS	1100	CLERK
ADAMS	1100	CLERK
ADAMS	1100	CLERK
ADAMS	1100	CLERK
MILLER	1300	CLERK
MILLER	1300	CLERK
MILLER	1300	CLERK

ENAME	SAL	JOB
-----	-----	-----
MILLER	1300	CLERK

56 rows selected.

SQL> ED

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Wrote file afiedt.buf

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

DNAME	LOC
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK

DNAME	LOC
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
ACCOUNTING	NEW YORK
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS

DNAME	LOC
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS
RESEARCH	DALLAS
SALES	CHICAGO
SALES	CHICAGO
SALES	CHICAGO
SALES	CHICAGO
SALES	CHICAGO

DNAME	LOC
SALES	CHICAGO
SALES	CHICAGO
SALES	CHICAGO
SALES	CHICAGO
SALES	CHICAGO
SALES	CHICAGO

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```
SALES          CHICAGO
SALES          CHICAGO
SALES          CHICAGO
OPERATIONS     BOSTON
OPERATIONS     BOSTON
```

```
DNAME          LOC
-----
OPERATIONS     BOSTON
OPERATIONS     BOSTON
OPERATIONS     BOSTON
OPERATIONS     BOSTON
OPERATIONS     BOSTON
OPERATIONS     BOSTON
OPERATIONS     BOSTON
OPERATIONS     BOSTON
OPERATIONS     BOSTON
OPERATIONS     BOSTON
OPERATIONS     BOSTON
OPERATIONS     BOSTON
```

```
DNAME          LOC
-----
OPERATIONS     BOSTON
```

56 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Ename, Job, Deptno, Dname, Loc
2* FROM Emp, Dept
```

```
SQL> /
SELECT Ename, Job, Deptno, Dname, Loc
*
```

```
ERROR at line 1:
ORA-00918: column ambiguously defined
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Ename, Job, Emp.Deptno, Dname, Loc
2* FROM Emp, Dept
```

```
SQL> /
```

ENAME	JOB	DEPTNO	DNAME	LOC
KING	PRESIDENT	10	ACCOUNTING	NEW YORK
BLAKE	MANAGER	30	ACCOUNTING	NEW YORK
CLARK	MANAGER	10	ACCOUNTING	NEW YORK
JONES	MANAGER	20	ACCOUNTING	NEW YORK
MARTIN	SALESMAN	30	ACCOUNTING	NEW YORK
ALLEN	SALESMAN	30	ACCOUNTING	NEW YORK
TURNER	SALESMAN	30	ACCOUNTING	NEW YORK
JAMES	CLERK	30	ACCOUNTING	NEW YORK
WARD	SALESMAN	30	ACCOUNTING	NEW YORK

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FORD	ANALYST	20	ACCOUNTING	NEW YORK
SMITH	CLERK	20	ACCOUNTING	NEW YORK

ENAME	JOB	DEPTNO	DNAME	LOC
SCOTT	ANALYST	20	ACCOUNTING	NEW YORK
ADAMS	CLERK	20	ACCOUNTING	NEW YORK
MILLER	CLERK	10	ACCOUNTING	NEW YORK
KING	PRESIDENT	10	RESEARCH	DALLAS
BLAKE	MANAGER	30	RESEARCH	DALLAS
CLARK	MANAGER	10	RESEARCH	DALLAS
JONES	MANAGER	20	RESEARCH	DALLAS
MARTIN	SALESMAN	30	RESEARCH	DALLAS
ALLEN	SALESMAN	30	RESEARCH	DALLAS
TURNER	SALESMAN	30	RESEARCH	DALLAS
JAMES	CLERK	30	RESEARCH	DALLAS

ENAME	JOB	DEPTNO	DNAME	LOC
WARD	SALESMAN	30	RESEARCH	DALLAS
FORD	ANALYST	20	RESEARCH	DALLAS
SMITH	CLERK	20	RESEARCH	DALLAS
SCOTT	ANALYST	20	RESEARCH	DALLAS
ADAMS	CLERK	20	RESEARCH	DALLAS
MILLER	CLERK	10	RESEARCH	DALLAS
KING	PRESIDENT	10	SALES	CHICAGO
BLAKE	MANAGER	30	SALES	CHICAGO
CLARK	MANAGER	10	SALES	CHICAGO
JONES	MANAGER	20	SALES	CHICAGO
MARTIN	SALESMAN	30	SALES	CHICAGO

ENAME	JOB	DEPTNO	DNAME	LOC
ALLEN	SALESMAN	30	SALES	CHICAGO
TURNER	SALESMAN	30	SALES	CHICAGO
JAMES	CLERK	30	SALES	CHICAGO
WARD	SALESMAN	30	SALES	CHICAGO
FORD	ANALYST	20	SALES	CHICAGO
SMITH	CLERK	20	SALES	CHICAGO
SCOTT	ANALYST	20	SALES	CHICAGO
ADAMS	CLERK	20	SALES	CHICAGO
MILLER	CLERK	10	SALES	CHICAGO
KING	PRESIDENT	10	OPERATIONS	BOSTON
BLAKE	MANAGER	30	OPERATIONS	BOSTON

ENAME	JOB	DEPTNO	DNAME	LOC
CLARK	MANAGER	10	OPERATIONS	BOSTON
JONES	MANAGER	20	OPERATIONS	BOSTON
MARTIN	SALESMAN	30	OPERATIONS	BOSTON
ALLEN	SALESMAN	30	OPERATIONS	BOSTON
TURNER	SALESMAN	30	OPERATIONS	BOSTON
JAMES	CLERK	30	OPERATIONS	BOSTON
WARD	SALESMAN	30	OPERATIONS	BOSTON
FORD	ANALYST	20	OPERATIONS	BOSTON
SMITH	CLERK	20	OPERATIONS	BOSTON

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```
SCOTT      ANALYST      20 OPERATIONS      BOSTON
ADAMS      CLERK        20 OPERATIONS      BOSTON
```

```
ENAME      JOB          DEPTNO DNAME          LOC
-----
MILLER     CLERK       10 OPERATIONS      BOSTON
```

56 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

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

```
ENAME      JOB          DEPTNO DNAME          LOC
-----
KING       PRESIDENT    10 ACCOUNTING      NEW YORK
BLAKE      MANAGER      10 ACCOUNTING      NEW YORK
CLARK      MANAGER      10 ACCOUNTING      NEW YORK
JONES      MANAGER      10 ACCOUNTING      NEW YORK
MARTIN     SALESMAN     10 ACCOUNTING      NEW YORK
ALLEN      SALESMAN     10 ACCOUNTING      NEW YORK
TURNER     SALESMAN     10 ACCOUNTING      NEW YORK
JAMES      CLERK        10 ACCOUNTING      NEW YORK
WARD       SALESMAN     10 ACCOUNTING      NEW YORK
FORD       ANALYST      10 ACCOUNTING      NEW YORK
SMITH      CLERK        10 ACCOUNTING      NEW YORK
```

```
ENAME      JOB          DEPTNO DNAME          LOC
-----
SCOTT      ANALYST      10 ACCOUNTING      NEW YORK
ADAMS      CLERK        10 ACCOUNTING      NEW YORK
MILLER     CLERK        10 ACCOUNTING      NEW YORK
KING       PRESIDENT    20 RESEARCH         DALLAS
BLAKE      MANAGER      20 RESEARCH         DALLAS
CLARK      MANAGER      20 RESEARCH         DALLAS
JONES      MANAGER      20 RESEARCH         DALLAS
MARTIN     SALESMAN     20 RESEARCH         DALLAS
ALLEN      SALESMAN     20 RESEARCH         DALLAS
TURNER     SALESMAN     20 RESEARCH         DALLAS
JAMES      CLERK        20 RESEARCH         DALLAS
```

```
ENAME      JOB          DEPTNO DNAME          LOC
-----
WARD       SALESMAN     20 RESEARCH         DALLAS
FORD       ANALYST      20 RESEARCH         DALLAS
SMITH      CLERK        20 RESEARCH         DALLAS
SCOTT      ANALYST      20 RESEARCH         DALLAS
ADAMS      CLERK        20 RESEARCH         DALLAS
MILLER     CLERK        20 RESEARCH         DALLAS
KING       PRESIDENT    30 SALES            CHICAGO
BLAKE      MANAGER      30 SALES            CHICAGO
CLARK      MANAGER      30 SALES            CHICAGO
JONES      MANAGER      30 SALES            CHICAGO
```

Spool Generated For Class of Oracle By Satish K Yellanki

MARTIN SALESMAN 30 SALES CHICAGO

```

ENAME            JOB                            DEPTNO DNAME                            LOC
-----
ALLEN            SALESMAN                        30 SALES                            CHICAGO
TURNER           SALESMAN                        30 SALES                            CHICAGO
JAMES            CLERK                            30 SALES                            CHICAGO
WARD             SALESMAN                        30 SALES                            CHICAGO
FORD             ANALYST                         30 SALES                            CHICAGO
SMITH            CLERK                            30 SALES                            CHICAGO
SCOTT            ANALYST                         30 SALES                            CHICAGO
ADAMS            CLERK                            30 SALES                            CHICAGO
MILLER           CLERK                            30 SALES                            CHICAGO
KING             PRESIDENT                       40 OPERATIONS                      BOSTON
BLAKE            MANAGER                         40 OPERATIONS                      BOSTON
    
```

```

ENAME            JOB                            DEPTNO DNAME                            LOC
-----
CLARK            MANAGER                         40 OPERATIONS                      BOSTON
JONES            MANAGER                         40 OPERATIONS                      BOSTON
MARTIN           SALESMAN                        40 OPERATIONS                      BOSTON
ALLEN            SALESMAN                        40 OPERATIONS                      BOSTON
TURNER           SALESMAN                        40 OPERATIONS                      BOSTON
JAMES            CLERK                            40 OPERATIONS                      BOSTON
WARD             SALESMAN                        40 OPERATIONS                      BOSTON
FORD             ANALYST                         40 OPERATIONS                      BOSTON
SMITH            CLERK                            40 OPERATIONS                      BOSTON
SCOTT            ANALYST                         40 OPERATIONS                      BOSTON
ADAMS            CLERK                            40 OPERATIONS                      BOSTON
    
```

```

ENAME            JOB                            DEPTNO DNAME                            LOC
-----
MILLER           CLERK                            40 OPERATIONS                      BOSTON
    
```

56 rows selected.

SQL> SPOOL OFF

SQL> cl scr

```

SQL> SELECT Ename, Emp.Deptno, Dname, Loc
2 FROM Emp, 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
    
```


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ENAME	DEPTNO	DNAME	LOC
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
MILLER	10	ACCOUNTING	NEW YORK

14 rows selected.

SQL> SELECT * FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

SQL> cl scr

SQL> Select
2 Empno,
3 Ename,
4 Sal,
5 Sal * 12 AnnSal,
6 Emp.Deptno,
7 Loc
8 FROM Emp, Dept
9 WHERE Emp.Deptno = Dept.Deptno;

EMPNO	ENAME	SAL	ANNSAL	DEPTNO	LOC
7839	KING	5000	60000	10	NEW YORK
7782	CLARK	2450	29400	10	NEW YORK
7934	MILLER	1300	15600	10	NEW YORK
7566	JONES	2975	35700	20	DALLAS
7788	SCOTT	3000	36000	20	DALLAS
7876	ADAMS	1100	13200	20	DALLAS
7369	SMITH	800	9600	20	DALLAS
7902	FORD	3000	36000	20	DALLAS
7698	BLAKE	2850	34200	30	CHICAGO
7654	MARTIN	1250	15000	30	CHICAGO
7499	ALLEN	1600	19200	30	CHICAGO

EMPNO	ENAME	SAL	ANNSAL	DEPTNO	LOC
7844	TURNER	1500	18000	30	CHICAGO
7900	JAMES	950	11400	30	CHICAGO
7521	WARD	1250	15000	30	CHICAGO

14 rows selected.

SQL> cl scr

SQL> Select
2 Dept.Deptno,

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```
3 Dname,
4 Loc,
5 SUM(Sal)
6 FROM Emp, Dept
7 WHERE Emp.Deptno = Dept.Deptno
8 GROUP BY Dept.Deptno, Dname, Loc;
```

DEPTNO	DNAME	LOC	SUM(SAL)
10	ACCOUNTING	NEW YORK	8750
20	RESEARCH	DALLAS	10875
30	SALES	CHICAGO	9400

```
SQL> Select
2 TO_CHAR(HireDate, 'YYYY') Year,
3 Dept.Deptno,
4 Dname,
5 SUM(Sal)
6 FROM Emp, Dept
7 WHERE Emp.Deptno = Dept.Deptno
8 GROUP BY TO_CHAR(HireDate, 'YYYY'), Dept.Deptno, Dname
9 ORDER BY Year;
```

YEAR	DEPTNO	DNAME	SUM(SAL)
1980	20	RESEARCH	800
1981	10	ACCOUNTING	7450
1981	20	RESEARCH	5975
1981	30	SALES	9400
1982	10	ACCOUNTING	1300
1982	20	RESEARCH	3000
1983	20	RESEARCH	1100

7 rows selected.

```
SQL> cl scr
```

```
SQL> Select
2 TO_CHAR(HireDate, 'YYYY') Year,
3 Dept.Deptno,
4 Dname,
5 SUM(Sal)
6 FROM Emp, Dept
7 WHERE Emp.Deptno = Dept.Deptno
8 GROUP BY TO_CHAR(HireDate, 'YYYY'), Dept.Deptno, Dname
9 HAVING COUNT(TO_CHAR(HireDate, 'YYYY')) > 2
10 ORDER BY Year;
```

YEAR	DEPTNO	DNAME	SUM(SAL)
1981	30	SALES	9400

```
SQL> ED
```

Wrote file afiedt.buf

```
1 Select
```

Spool Generated For Class of Oracle By Satish K Yellanki

```
2 TO_CHAR(HireDate, 'YYYY') Year,
3 Dept.Deptno,
4 Dname,
5 SUM(Sal)
6 FROM Emp, Dept
7 WHERE Emp.Deptno = Dept.Deptno
8 GROUP BY TO_CHAR(HireDate, 'YYYY'), Dept.Deptno, Dname
9* ORDER BY Year
SQL> /
```

YEAR	DEPTNO	DNAME	SUM(SAL)
1980	20	RESEARCH	800
1981	10	ACCOUNTING	7450
1981	20	RESEARCH	5975
1981	30	SALES	9400
1982	10	ACCOUNTING	1300
1982	20	RESEARCH	3000
1983	20	RESEARCH	1100

7 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 Select
2 TO_CHAR(HireDate, 'YYYY') Year,
3 Dept.Deptno,
4 Dname,
5 COUNT(*) Cnt,
6 SUM(Sal)
7 FROM Emp, Dept
8 WHERE Emp.Deptno = Dept.Deptno
9 GROUP BY TO_CHAR(HireDate, 'YYYY'), Dept.Deptno, Dname
10* ORDER BY Year
SQL> /
```

YEAR	DEPTNO	DNAME	CNT	SUM(SAL)
1980	20	RESEARCH	1	800
1981	10	ACCOUNTING	2	7450
1981	20	RESEARCH	2	5975
1981	30	SALES	6	9400
1982	10	ACCOUNTING	1	1300
1982	20	RESEARCH	1	3000
1983	20	RESEARCH	1	1100

7 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, Ename
2 FROM Emp;
```

```
ENAME      ENAME
-----
```

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```
KING      KING
BLAKE     BLAKE
CLARK     CLARK
JONES     JONES
MARTIN    MARTIN
ALLEN     ALLEN
TURNER    TURNER
JAMES     JAMES
WARD      WARD
FORD      FORD
SMITH     SMITH
```

```
ENAME     ENAME
-----
SCOTT     SCOTT
ADAMS     ADAMS
MILLER    MILLER
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
 1 SELECT Ename, Job, Sal
 2* FROM Emp, Emp
```

SQL> /

```
SELECT Ename, Job, Sal
      *
```

ERROR at line 1:

ORA-00918: column ambiguously defined

SQL> ED

Wrote file afiedt.buf

```
 1 SELECT 125
 2* FROM Emp
```

SQL> /

```
      125
-----
      125
      125
      125
      125
      125
      125
      125
      125
      125
      125
      125
      125
      125
      125
      125
      125
-----
      125
```

Spool Generated For Class of Oracle By Satish K Yellanki

125
125

14 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1 SELECT 125
2* FROM Emp, Emp
SQL> /
```

SQL> cl scr

```
SQL> SELECT Ename
2 FROM Emp, Emp
3
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Ename
2* FROM Emp E1, Emp E2
SQL> /
SELECT Ename
      *
ERROR at line 1:
ORA-00918: column ambiguously defined
```

SQL> ED
Wrote file afiedt.buf

```
1 SELECT E1.Ename
2* FROM Emp E1, Emp E2
SQL> /
```

SQL> cl scr

```
SQL> SELECT
2 E.Empno,
3 E.Ename,
4 D.Deptno,
5 D.Dname
6 FROM Emp E, Dept D
7 WHERE E.Deptno = D.Deptno;
```

EMPNO	ENAME	DEPTNO	DNAME
7839	KING	10	ACCOUNTING
7782	CLARK	10	ACCOUNTING
7934	MILLER	10	ACCOUNTING
7566	JONES	20	RESEARCH
7788	SCOTT	20	RESEARCH
7876	ADAMS	20	RESEARCH
7369	SMITH	20	RESEARCH

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7902	FORD	20	RESEARCH
7698	BLAKE	30	SALES
7654	MARTIN	30	SALES
7499	ALLEN	30	SALES

EMPNO	ENAME	DEPTNO	DNAME
7844	TURNER	30	SALES
7900	JAMES	30	SALES
7521	WARD	30	SALES

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 E.Empno,
3 E.Ename,
4 Dept.Deptno,
5 D.Dname
6 FROM Emp E, Dept D
7* WHERE E.Deptno = D.Deptno
```

SQL> /

Dept.Deptno,

*

ERROR at line 4:

ORA-00904: "DEPT"."DEPTNO": invalid identifier

SQL> SELECT

```
2 E.Ename,
3 E.Job,
4 D.Deptno,
5 D.Dname,
6 D.Loc
7 FROM Emp E, Dept D
8 WHERE E.Deptno = D.Deptno AND
9 E.Job IN('ANALYST', 'MANAGER');
```

ENAME	JOB	DEPTNO	DNAME	LOC
CLARK	MANAGER	10	ACCOUNTING	NEW YORK
JONES	MANAGER	20	RESEARCH	DALLAS
FORD	ANALYST	20	RESEARCH	DALLAS
SCOTT	ANALYST	20	RESEARCH	DALLAS
BLAKE	MANAGER	30	SALES	CHICAGO

SQL> cl scr

SQL> SELECT

```
2 Ename,
3 DName,
4 Loc
5 FROM Emp Employees, Dept Departments
6 WHERE Employees.Deptno = Departments.Deptno;
```

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

ENAME	DNAME	LOC
TURNER	SALES	CHICAGO
JAMES	SALES	CHICAGO
WARD	SALES	CHICAGO

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Ename,
3  DName,
4  Loc
5  FROM Emp E, Dept D
6* WHERE E.Deptno = D.Deptno
SQL> /
```

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

ENAME	DNAME	LOC
TURNER	SALES	CHICAGO
JAMES	SALES	CHICAGO
WARD	SALES	CHICAGO

14 rows selected.

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> cl scr

SQL> SELECT Empno, Ename, MGR
2 FROM Emp;

EMPNO	ENAME	MGR
7839	KING	
7698	BLAKE	7839
7782	CLARK	7839
7566	JONES	7839
7654	MARTIN	7698
7499	ALLEN	7698
7844	TURNER	7698
7900	JAMES	7698
7521	WARD	7698
7902	FORD	7566
7369	SMITH	7902

EMPNO	ENAME	MGR
7788	SCOTT	7566
7876	ADAMS	7788
7934	MILLER	7782

14 rows selected.

SQL> ED

Wrote file afiedt.buf

1 SELECT Empno, Ename, Sal, MGR
2* FROM Emp
SQL> /

EMPNO	ENAME	SAL	MGR
7839	KING	5000	
7698	BLAKE	2850	7839
7782	CLARK	2450	7839
7566	JONES	2975	7839
7654	MARTIN	1250	7698
7499	ALLEN	1600	7698
7844	TURNER	1500	7698
7900	JAMES	950	7698
7521	WARD	1250	7698
7902	FORD	3000	7566
7369	SMITH	800	7902

EMPNO	ENAME	SAL	MGR
7788	SCOTT	3000	7566
7876	ADAMS	1100	7788
7934	MILLER	1300	7782

14 rows selected.

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> cl scr

SQL> SELECT

```
 2  E1.ename "Employees",
 3  E2. Ename "Managers"
 4  FROM Emp E1, Emp E2
 5  WHERE E1.Mgr = E2.Empno;
```

Employees	Managers
FORD	JONES
SCOTT	JONES
MARTIN	BLAKE
ALLEN	BLAKE
JAMES	BLAKE
TURNER	BLAKE
WARD	BLAKE
MILLER	CLARK
ADAMS	SCOTT
BLAKE	KING
CLARK	KING

Employees	Managers
JONES	KING
SMITH	FORD

13 rows selected.

SQL> ED

Wrote file afiedt.buf

```
 1  SELECT
 2  E1.ename,
 3  E2. Ename
 4  FROM Emp E1, Emp E2
 5* WHERE E1.Mgr = E2.Empno
```

SQL> /

ENAME	ENAME
FORD	JONES
SCOTT	JONES
MARTIN	BLAKE
ALLEN	BLAKE
JAMES	BLAKE
TURNER	BLAKE
WARD	BLAKE
MILLER	CLARK
ADAMS	SCOTT
BLAKE	KING
CLARK	KING

ENAME	ENAME
JONES	KING

Spool Generated For Class of Oracle By Satish K Yellanki

SMITH FORD

13 rows selected.

SQL> cl scr

```
SQL> SELECT
  2 Employees.ename "Employees",
  3 Managers.ename "Managers"
  4 FROM Emp Employees, Emp Managers
  5 WHERE Employees.Mgr = Managers.empno;
```

Employees	Managers
FORD	JONES
SCOTT	JONES
MARTIN	BLAKE
ALLEN	BLAKE
JAMES	BLAKE
TURNER	BLAKE
WARD	BLAKE
MILLER	CLARK
ADAMS	SCOTT
BLAKE	KING
CLARK	KING

Employees	Managers
JONES	KING
SMITH	FORD

13 rows selected.

SQL> ED

Wrote file afiedt.buf

```
  1 SELECT
  2 Employees.ename "Employees",
  3 Managers.ename "Managers"
  4 FROM Emp Employees, Emp Managers
  5* WHERE Managers.Mgr = Employees.empno
SQL> /
```

Employees	Managers
JONES	FORD
JONES	SCOTT
BLAKE	MARTIN
BLAKE	ALLEN
BLAKE	JAMES
BLAKE	TURNER
BLAKE	WARD
CLARK	MILLER
SCOTT	ADAMS
KING	BLAKE
KING	CLARK

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Employees Managers

```
-----  
KING      JONES  
FORD      SMITH
```

13 rows selected.

SQL> cl scr

```
SQL> SELECT  
 2  E1.ename||''s Manager is '|'  
 3  E2.ename "Employees And Managers"  
 4  FROM  Emp E1, Emp E2  
 5  WHERE E1.Mgr = E2.empno;
```

Employees And Managers

```
-----  
FORD's Manager is JONES  
SCOTT's Manager is JONES  
MARTIN's Manager is BLAKE  
ALLEN's Manager is BLAKE  
JAMES's Manager is BLAKE  
TURNER's Manager is BLAKE  
WARD's Manager is BLAKE  
MILLER's Manager is CLARK  
ADAMS's Manager is SCOTT  
BLAKE's Manager is KING  
CLARK's Manager is KING
```

Employees And Managers

```
-----  
JONES's Manager is KING  
SMITH's Manager is FORD
```

13 rows selected.

SQL> SPOOL OFF

SQL> cl scr

```
SQL> SELECT empno, ename, sal  
 2  FROM emp;
```

EMPNO	ENAME	SAL
7839	KING	5000
7698	BLAKE	2850
7782	CLARK	2450
7566	JONES	2975
7654	MARTIN	1250
7499	ALLEN	1600
7844	TURNER	1500
7900	JAMES	950
7521	WARD	1250
7902	FORD	3000
7369	SMITH	800

Spool Generated For Class of Oracle By Satish K Yellanki

EMPNO	ENAME	SAL
7788	SCOTT	3000
7876	ADAMS	1100
7934	MILLER	1300

14 rows selected.

```
SQL> SELECT LoSal, HiSal, Grade
  2 FROM DalGrade;
FROM DalGrade
*
```

ERROR at line 2:
ORA-00942: table or view does not exist

```
SQL> Ed
Wrote file afiedt.buf
```

```
  1 SELECT LoSal, HiSal, Grade
  2* FROM SalGrade
SQL> /
```

LOSAL	HISAL	GRADE
700	1200	1
1201	1400	2
1401	2000	3
2001	3000	4
3001	9999	5

```
SQL> SELECT Empno, Ename, Sal
  2 FROM Emp;
```

EMPNO	ENAME	SAL
7839	KING	5000
7698	BLAKE	2850
7782	CLARK	2450
7566	JONES	2975
7654	MARTIN	1250
7499	ALLEN	1600
7844	TURNER	1500
7900	JAMES	950
7521	WARD	1250
7902	FORD	3000
7369	SMITH	800

EMPNO	ENAME	SAL
7788	SCOTT	3000
7876	ADAMS	1100
7934	MILLER	1300

14 rows selected.

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> cl scr

```
SQL> SELECT Ename, Emp.Deptno, Dname, Loc
 2  FROM Emp, 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

ENAME	DEPTNO	DNAME	LOC
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, Emp.Deptno, Dname, Loc
 2  FROM Emp, Dept
 3* WHERE Emp.Deptno > Dept.Deptno
SQL> /
```

ENAME	DEPTNO	DNAME	LOC
JONES	20	ACCOUNTING	NEW YORK
SCOTT	20	ACCOUNTING	NEW YORK
ADAMS	20	ACCOUNTING	NEW YORK
SMITH	20	ACCOUNTING	NEW YORK
FORD	20	ACCOUNTING	NEW YORK
BLAKE	30	ACCOUNTING	NEW YORK
MARTIN	30	ACCOUNTING	NEW YORK
ALLEN	30	ACCOUNTING	NEW YORK
TURNER	30	ACCOUNTING	NEW YORK
JAMES	30	ACCOUNTING	NEW YORK
WARD	30	ACCOUNTING	NEW YORK

ENAME	DEPTNO	DNAME	LOC
BLAKE	30	RESEARCH	DALLAS
MARTIN	30	RESEARCH	DALLAS
ALLEN	30	RESEARCH	DALLAS

Spool Generated For Class of Oracle By Satish K Yellanki

```
TURNER          30 RESEARCH      DALLAS
JAMES           30 RESEARCH      DALLAS
WARD            30 RESEARCH      DALLAS
```

17 rows selected.

```
SQL> SELECT * FROM Dept;
```

```
   DEPTNO DNAME          LOC
-----
   10 ACCOUNTING      NEW YORK
   20 RESEARCH        DALLAS
   30 SALES            CHICAGO
   40 OPERATIONS      BOSTON
```

```
SQL> cl scr
```

```
SQL> SELECT Ename, Deptno, Job, Sal, Grade
 2 FROM Emp, SalGrade
 3 WHERE Emp.Sal >= SalGrade.LoSal AND
 4      Emp.Sal <= SalGrade.HiSal;
```

```
ENAME          DEPTNO JOB          SAL          GRADE
-----
SMITH           20 CLERK          800           1
JAMES           30 CLERK          950           1
ADAMS           20 CLERK         1100          1
MARTIN          30 SALESMAN      1250          2
WARD            30 SALESMAN      1250          2
MILLER          10 CLERK         1300          2
TURNER          30 SALESMAN      1500          3
ALLEN           30 SALESMAN      1600          3
CLARK           10 MANAGER       2450          4
BLAKE           30 MANAGER       2850          4
JONES           20 MANAGER       2975          4
```

```
ENAME          DEPTNO JOB          SAL          GRADE
-----
FORD            20 ANALYST       3000          4
SCOTT           20 ANALYST       3000          4
KING            10 PRESIDENT     5000          5
```

14 rows selected.

```
SQL> ED
```

Wrote file afiedt.buf

```
 1 SELECT Ename, Deptno, Job, Sal, Grade
 2 FROM Emp, SalGrade
 3* WHERE Emp.Sal BETWEEN SalGrade.LoSal AND SalGrade.HiSal
SQL> /
```

```
ENAME          DEPTNO JOB          SAL          GRADE
-----
SMITH           20 CLERK          800           1
JAMES           30 CLERK          950           1
```

Spool Generated For Class of Oracle By Satish K Yellanki

ADAMS	20	CLERK	1100	1
MARTIN	30	SALESMAN	1250	2
WARD	30	SALESMAN	1250	2
MILLER	10	CLERK	1300	2
TURNER	30	SALESMAN	1500	3
ALLEN	30	SALESMAN	1600	3
CLARK	10	MANAGER	2450	4
BLAKE	30	MANAGER	2850	4
JONES	20	MANAGER	2975	4

ENAME	DEPTNO	JOB	SAL	GRADE
FORD	20	ANALYST	3000	4
SCOTT	20	ANALYST	3000	4
KING	10	PRESIDENT	5000	5

14 rows selected.

SQL> cl scr

SQL> SELECT * FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

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 * FROM Dept;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
50	SHIPPING	CHENNAI
60	CARGO	MUMBAI
70	COURIER	DELHI

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7 rows selected.

```
SQL> COLUMN Empno FORMAT 9999
SQL> COLUMN Sal FORMAT 9999
SQL> COLUMN Comm FORMAT 9999
SQL> COLUMN Deptno FORMAT 99
SQL> SELECT * FROM Emp ORDER BY Deptno;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7934	MILLER	CLERK	7782	23-JAN-82	1300		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30

14 rows selected.

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

ENAME	SAL	DEPTNO	DNAME	LOC
KING	5000	10	ACCOUNTING	NEW YORK
CLARK	2450	10	ACCOUNTING	NEW YORK
MILLER	1300	10	ACCOUNTING	NEW YORK
JONES	2975	20	RESEARCH	DALLAS
SCOTT	3000	20	RESEARCH	DALLAS
ADAMS	1100	20	RESEARCH	DALLAS
SMITH	800	20	RESEARCH	DALLAS
FORD	3000	20	RESEARCH	DALLAS
BLAKE	2850	30	SALES	CHICAGO
MARTIN	1250	30	SALES	CHICAGO
ALLEN	1600	30	SALES	CHICAGO

ENAME	SAL	DEPTNO	DNAME	LOC
TURNER	1500	30	SALES	CHICAGO
JAMES	950	30	SALES	CHICAGO
WARD	1250	30	SALES	CHICAGO

14 rows selected.

Spool Generated For Class of Oracle By Satish K Yellanki

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Emp.Deptno Deptno, Dname, Loc
2 FROM Emp, Dept
3* WHERE Emp.Deptno(+) = Dept.Deptno
SQL> /
```

ENAME	SAL	DEPTNO	DNAME	LOC
KING	5000	10	ACCOUNTING	NEW YORK
CLARK	2450	10	ACCOUNTING	NEW YORK
MILLER	1300	10	ACCOUNTING	NEW YORK
JONES	2975	20	RESEARCH	DALLAS
SCOTT	3000	20	RESEARCH	DALLAS
ADAMS	1100	20	RESEARCH	DALLAS
SMITH	800	20	RESEARCH	DALLAS
FORD	3000	20	RESEARCH	DALLAS
BLAKE	2850	30	SALES	CHICAGO
MARTIN	1250	30	SALES	CHICAGO
ALLEN	1600	30	SALES	CHICAGO

ENAME	SAL	DEPTNO	DNAME	LOC
TURNER	1500	30	SALES	CHICAGO
JAMES	950	30	SALES	CHICAGO
WARD	1250	30	SALES	CHICAGO
			OPERATIONS	BOSTON
			SHIPPING	CHENNAI
			CARGO	MUMBAI
			COURIER	DELHI

18 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Dept.Deptno Deptno, Dname, Loc
2 FROM Emp, Dept
3* WHERE Emp.Deptno(+) = Dept.Deptno
SQL> /
```

ENAME	SAL	DEPTNO	DNAME	LOC
KING	5000	10	ACCOUNTING	NEW YORK
CLARK	2450	10	ACCOUNTING	NEW YORK
MILLER	1300	10	ACCOUNTING	NEW YORK
JONES	2975	20	RESEARCH	DALLAS
SCOTT	3000	20	RESEARCH	DALLAS
ADAMS	1100	20	RESEARCH	DALLAS
SMITH	800	20	RESEARCH	DALLAS
FORD	3000	20	RESEARCH	DALLAS
BLAKE	2850	30	SALES	CHICAGO
MARTIN	1250	30	SALES	CHICAGO
ALLEN	1600	30	SALES	CHICAGO

Spool Generated For Class of Oracle By Satish K Yellanki

ENAME	SAL	DEPTNO	DNAME	LOC
TURNER	1500	30	SALES	CHICAGO
JAMES	950	30	SALES	CHICAGO
WARD	1250	30	SALES	CHICAGO
		40	OPERATIONS	BOSTON
		50	SHIPPING	CHENNAI
		60	CARGO	MUMBAI
		70	COURIER	DELHI

18 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Dept.Deptno Deptno, Dname, Loc
2 FROM Emp, Dept
3* WHERE Emp.Deptno = Dept.Deptno(+)
SQL> /
```

ENAME	SAL	DEPTNO	DNAME	LOC
MILLER	1300	10	ACCOUNTING	NEW YORK
CLARK	2450	10	ACCOUNTING	NEW YORK
KING	5000	10	ACCOUNTING	NEW YORK
ADAMS	1100	20	RESEARCH	DALLAS
SCOTT	3000	20	RESEARCH	DALLAS
SMITH	800	20	RESEARCH	DALLAS
FORD	3000	20	RESEARCH	DALLAS
JONES	2975	20	RESEARCH	DALLAS
WARD	1250	30	SALES	CHICAGO
JAMES	950	30	SALES	CHICAGO
TURNER	1500	30	SALES	CHICAGO

ENAME	SAL	DEPTNO	DNAME	LOC
ALLEN	1600	30	SALES	CHICAGO
MARTIN	1250	30	SALES	CHICAGO
BLAKE	2850	30	SALES	CHICAGO

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 NVL(Ename, 'NOT RECRUITED') Ename,
3 Dept.Deptno Deptno,
4 Dname,
5 Loc
6 FROM Emp, Dept
7* WHERE Emp.Deptno(+) = Dept.Deptno
SQL> /
```

ENAME	DEPTNO	DNAME	LOC
-------	--------	-------	-----

Spool Generated For Class of Oracle By Satish K Yellanki

KING	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
BLAKE	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
NOT RECRUITED	40	OPERATIONS	BOSTON
NOT RECRUITED	50	SHIPPING	CHENNAI
NOT RECRUITED	60	CARGO	MUMBAI
NOT RECRUITED	70	COURIER	DELHI

18 rows selected.

SQL> cl scr

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

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
KING	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK

SQL> ED

Wrote file afiedt.buf

Spool Generated For Class of Oracle By Satish K Yellanki

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

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK
	20	RESEARCH	DALLAS
	30	SALES	CHICAGO
	40	OPERATIONS	BOSTON
	50	SHIPPING	CHENNAI
	60	CARGO	MUMBAI
	70	COURIER	DELHI

9 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

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

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK

```
SQL> ED
Wrote file afiedt.buf
```

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

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK

Spool Generated For Class of Oracle By Satish K Yellanki

```

MILLER                10 ACCOUNTING        NEW YORK
NOT RECRUITED OR REQUESTED 20 RESEARCH          DALLAS
NOT RECRUITED OR REQUESTED 30 SALES              CHICAGO
NOT RECRUITED OR REQUESTED 40 OPERATIONS        BOSTON
NOT RECRUITED OR REQUESTED 50 SHIPPING          CHENNAI
NOT RECRUITED OR REQUESTED 60 CARGO              MUMBAI
NOT RECRUITED OR REQUESTED 70 COURIER            DELHI
  
```

9 rows selected.

```

SQL> SPOOL OFF
SQL> cl scr
  
```

```

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

NAME	ORDID	ITEMID	ITEMTOT

TOTAL			

TKB SPORT SHOP 101.4	610	2	8.4
TKB SPORT SHOP 101.4	610	1	35
TKB SPORT SHOP 101.4	610	3	58

```

SQL> cl scr
  
```

```

SQL> SELECT
  2  E.Ename Employee,
  3  E.Deptno Department,
  4  M.Ename Manager,
  5  M.Deptno "Manager's Dept"
  6  FROM Emp E, Dept D, Emp M
  7  WHERE E.MGR = M.Empno AND
  8         E.Deptno = D.Deptno;
  
```

EMPLOYEE	DEPARTMENT	MANAGER	Manager's Dept
-----	-----	-----	-----
FORD	20	JONES	20
SCOTT	20	JONES	20
MARTIN	30	BLAKE	30
ALLEN	30	BLAKE	30
JAMES	30	BLAKE	30
TURNER	30	BLAKE	30
WARD	30	BLAKE	30
MILLER	10	CLARK	10

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```
ADAMS          20 SCOTT          20
BLAKE          30 KING           10
CLARK          10 KING           10
```

```
EMPLOYEE      DEPARTMENT  MANAGER      Manager's Dept
-----
JONES         20 KING        10
SMITH        20 FORD        20
```

13 rows selected.

```
SQL> SELECT
  2  E.Ename Employee,
  3  Dname Department,
  4  Loc Place,
  5  M.Ename Manager,
  6  Dname "Manager's Dept"
  7  FROM Emp E, Dept D, Emp M
  8  WHERE E.MGR = M.Empno AND
  9         E.Deptno = D.Deptno;
```

```
EMPLOYEE      DEPARTMENT      PLACE          MANAGER      Manager's Dept
-----
BLAKE         SALES           CHICAGO        KING          SALES
JONES        RESEARCH        DALLAS         KING          RESEARCH
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
```

```
EMPLOYEE      DEPARTMENT      PLACE          MANAGER      Manager's Dept
-----
SMITH        RESEARCH        DALLAS         FORD          RESEARCH
ADAMS        RESEARCH        DALLAS         SCOTT         RESEARCH
```

13 rows selected.

```
SQL> SELECT
  2  E.Ename Employee,
  3  DE.Dname Department,
  4  DE.Loc Place,
  5  M.Ename Manager,
  6  DM.Dname "Manager's Dept"
  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;
```

```
EMPLOYEE      DEPARTMENT      PLACE          MANAGER      Manager's Dept
-----
```

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MILLER	ACCOUNTING	NEW YORK	CLARK	ACCOUNTING
CLARK	ACCOUNTING	NEW YORK	KING	ACCOUNTING
JONES	RESEARCH	DALLAS	KING	ACCOUNTING
SMITH	RESEARCH	DALLAS	FORD	RESEARCH
SCOTT	RESEARCH	DALLAS	JONES	RESEARCH
FORD	RESEARCH	DALLAS	JONES	RESEARCH
ADAMS	RESEARCH	DALLAS	SCOTT	RESEARCH
BLAKE	SALES	CHICAGO	KING	ACCOUNTING
MARTIN	SALES	CHICAGO	BLAKE	SALES
ALLEN	SALES	CHICAGO	BLAKE	SALES
TURNER	SALES	CHICAGO	BLAKE	SALES
EMPLOYEE	DEPARTMENT	PLACE	MANAGER	Manager's Dept

JAMES	SALES	CHICAGO	BLAKE	SALES
WARD	SALES	CHICAGO	BLAKE	SALES

13 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  E.Ename Employee,
  3  E.Sal "Employee's Salary",
  4  M.Ename Manager,
  5  M.Sal "Manager's Salary",
  6  Dname "Manager's Dept"
  7 FROM Emp E, Dept D, Emp M
  8 WHERE E.Deptno = D.Deptno AND
  9  E.MGR = M.Empno;
```

EMPLOYEE	Employee's Salary	MANAGER	Manager's Salary	Manager's Dept

BLAKE	2850	KING	5000	SALES
JONES	2975	KING	5000	RESEARCH
CLARK	2450	KING	5000	ACCOUNTING
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

EMPLOYEE	Employee's Salary	MANAGER	Manager's Salary	Manager's Dept

SMITH	800	FORD	3000	RESEARCH
ADAMS	1100	SCOTT	3000	RESEARCH

13 rows selected.

SQL> cl scr

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

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```

3  E.Sal "Employee's Salary",
4  M.Ename Manager,
5  M.Sal "Manager's Salary",
6  DM.Dname "Manager's Dept"
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;

```

EMPLOYEE	Employee's Salary	MANAGER	Manager's Salary	Manager's Dept
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

EMPLOYEE	Employee's Salary	MANAGER	Manager's Salary	Manager's Dept
ADAMS	1100	SCOTT	3000	RESEARCH
MILLER	1300	CLARK	2450	ACCOUNTING

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') Employee,
3  DE.Dname "Employee's Dept",
4  NVL(M.Ename, 'NULL Manager') Manager,
5  NVL(DM.Dname, 'Not Recruited') "Manager's Dept",
6  DE.Deptno
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(+);

```

EMPLOYEE	Employee's	MANAGER	Manager's Dept	DEPTNO
MILLER	ACCOUNTING	CLARK	ACCOUNTING	10
CLARK	ACCOUNTING	KING	ACCOUNTING	10
JONES	RESEARCH	KING	ACCOUNTING	20
BLAKE	SALES	KING	ACCOUNTING	30
ADAMS	RESEARCH	SCOTT	RESEARCH	20
SMITH	RESEARCH	FORD	RESEARCH	20
SCOTT	RESEARCH	JONES	RESEARCH	20

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```

FORD          RESEARCH    JONES          RESEARCH      20
MARTIN        SALES       BLAKE          SALES         30
ALLEN         SALES       BLAKE          SALES         30
TURNER        SALES       BLAKE          SALES         30
  
```

```

EMPLOYEE      Employee's  MANAGER        Manager's Dept  DEPTNO
-----
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 Employee,
 3  E.Sal "Employee's Salary",
 4  SE.Grade EmpGrade,
 5  M.Sal "Manager's Salary",
 6  SM.Grade MGRGrade,
 7  Dname
 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;
  
```

```

EMPLOYEE      Employee's Salary EMPGRADE Manager's Salary MGRGRADE
-----
DNAME
-----
SMITH          800          1          3000          4
RESEARCH

JAMES          950          1          2850          4
SALES

ADAMS          1100         1          3000          4
RESEARCH
  
```

```

EMPLOYEE      Employee's Salary EMPGRADE Manager's Salary MGRGRADE
-----
DNAME
-----
MARTIN        1250         2          2850          4
SALES

WARD          1250         2          2850          4
SALES
  
```

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```
MILLER          1300          2          2450          4
ACCOUNTING
```

```
EMPLOYEE      Employee's Salary  EMPGRADE  Manager's Salary  MGRGRADE
-----
DNAME
-----
TURNER          1500          3          2850          4
SALES

ALLEN           1600          3          2850          4
SALES

CLARK           2450          4          5000          5
ACCOUNTING
```

```
EMPLOYEE      Employee's Salary  EMPGRADE  Manager's Salary  MGRGRADE
-----
DNAME
-----
BLAKE           2850          4          5000          5
SALES

JONES           2975          4          5000          5
RESEARCH

FORD            3000          4          2975          4
RESEARCH
```

```
EMPLOYEE      Employee's Salary  EMPGRADE  Manager's Salary  MGRGRADE
-----
DNAME
-----
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
3 /
```

```
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
```

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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

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
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
TURNER	20	RESEARCH	DALLAS
JAMES	20	RESEARCH	DALLAS

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
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

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
ALLEN	30	SALES	CHICAGO
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

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
CLARK	40	OPERATIONS	BOSTON
JONES	40	OPERATIONS	BOSTON
MARTIN	40	OPERATIONS	BOSTON
ALLEN	40	OPERATIONS	BOSTON
TURNER	40	OPERATIONS	BOSTON

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JAMES	40	OPERATIONS	BOSTON
WARD	40	OPERATIONS	BOSTON
FORD	40	OPERATIONS	BOSTON
SMITH	40	OPERATIONS	BOSTON
SCOTT	40	OPERATIONS	BOSTON
ADAMS	40	OPERATIONS	BOSTON

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
MILLER	40	OPERATIONS	BOSTON

56 rows selected.

SQL> ED

Wrote file afiedt.buf

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

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

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
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
TURNER	20	RESEARCH	DALLAS
JAMES	20	RESEARCH	DALLAS

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
WARD	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
MILLER	20	RESEARCH	DALLAS

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KING	30	SALES	CHICAGO
BLAKE	30	SALES	CHICAGO
CLARK	30	SALES	CHICAGO
JONES	30	SALES	CHICAGO
MARTIN	30	SALES	CHICAGO

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
ALLEN	30	SALES	CHICAGO
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

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
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

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
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
CLARK	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS

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```
BLAKE          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
```

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
CLARK           10 ACCOUNTING     NEW YORK
MILLER          10 ACCOUNTING     NEW YORK
JONES           20 RESEARCH       DALLAS
SCOTT           20 RESEARCH       DALLAS
ADAMS           20 RESEARCH       DALLAS
SMITH           20 RESEARCH       DALLAS
FORD            20 RESEARCH       DALLAS
BLAKE           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
```

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, D.Deptno, Dname, Loc
2* FROM Emp NATURAL JOIN Dept
```

SQL> /

```
SELECT Ename, D.Deptno, Dname, Loc
```

*

ERROR at line 1:

ORA-00904: "D"."DEPTNO": invalid identifier

SQL> cl scr

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

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ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
BLAKE	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

14 rows selected.

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
CLARK	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
BLAKE	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

14 rows selected.

SQL> cl scr

SQL> SELECT Ename, Dept.Deptno, Dname, Loc

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```
2 FROM Emp JOIN Dept
3 ON Emp.Deptno = Dept.Deptno;
```

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
BLAKE	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

14 rows selected.

```
SQL> ED
```

Wrote file afiedt.buf

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

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
BLAKE	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

14 rows selected.

```
SQL> ED
```


Spool Generated For Class of Oracle By Satish K Yellanki

Wrote file afiedt.buf

```
1 SELECT Ename, Dept.Deptno, Dname, Loc
2 FROM Emp INNER JOIN Dept
3* WHERE Emp.Deptno = Dept.Deptno
SQL> /
WHERE Emp.Deptno = Dept.Deptno
*
ERROR at line 3:
ORA-00905: missing keyword
```

SQL> cl scr

```
SQL> SELECT
2 E.Ename Employee,
3 M.Ename Manager
4 FROM
5 Emp E INNER JOIN Emp M
6 ON(E.MGR = M.Empno)
7 /
```

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

EMPLOYEE	MANAGER
JONES	KING
SMITH	FORD

13 rows selected.

```
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
MARTIN	1250	2	30	SALES
WARD	1250	2	30	SALES

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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

ENAME	SAL	GRADE	DEPTNO	DNAME
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;
```

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

ENAME	ENAME	SAL	GRADE	DEPTNO	DNAME
BLAKE	WARD	1250	4	30	SALES
CLARK	MILLER	1300	4	10	ACCOUNTING

13 rows selected.

```
SQL> ED
```

Wrote file afiedt.buf

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

```
SQL> /
```

```
SELECT Ename, Sal, Grade, Dept.Deptno, Dname
```

*

ERROR at line 1:

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ORA-25155: column used in NATURAL join cannot have qualifier

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
MARTIN	1250	2	30	SALES
WARD	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

ENAME	SAL	GRADE	DEPTNO	DNAME
FORD	3000	4	20	RESEARCH
SCOTT	3000	4	20	RESEARCH
KING	5000	5	10	ACCOUNTING

14 rows selected.

SQL> cl scr

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

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

ENAME	DEPTNO	DNAME	LOC
-------	--------	-------	-----

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```
TURNER          30 SALES          CHICAGO
JAMES           30 SALES          CHICAGO
WARD            30 SALES          CHICAGO
                40 OPERATIONS     BOSTON
```

15 rows selected.

SQL> ED

Wrote file afiedt.buf

```
 1 SELECT Ename, Dept.Deptno, Dname, Loc
 2 FROM Emp LEFT JOIN Dept
 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

ENAME	DEPTNO	DNAME	LOC
ALLEN	30	SALES	CHICAGO
MARTIN	30	SALES	CHICAGO
BLAKE	30	SALES	CHICAGO

14 rows selected.

SQL> ED

Wrote file afiedt.buf

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

ENAME	DEPTNO	DNAME	LOC
KING	10	ACCOUNTING	NEW YORK
CLARK	10	ACCOUNTING	NEW YORK
MILLER	10	ACCOUNTING	NEW YORK
JONES	20	RESEARCH	DALLAS
SCOTT	20	RESEARCH	DALLAS
ADAMS	20	RESEARCH	DALLAS
SMITH	20	RESEARCH	DALLAS
FORD	20	RESEARCH	DALLAS
BLAKE	30	SALES	CHICAGO

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MARTIN	30	SALES	CHICAGO
ALLEN	30	SALES	CHICAGO

ENAME	DEPTNO	DNAME	LOC
-----	-----	-----	-----
TURNER	30	SALES	CHICAGO
JAMES	30	SALES	CHICAGO
WARD	30	SALES	CHICAGO
	40	OPERATIONS	BOSTON

15 rows selected.

SQL> SPOOL OFF