```
SQL> cl scr

SQL> SELECT Ename, Deptno, Job
  2  FROM Emp;

ENAME           DEPTNO JOB
---------- ---------- ---------
KING               10 PRESIDENT
BLAKE              30 MANAGER
CLARK              10 MANAGER
JONES              20 MANAGER
MARTIN             30 SALESMAN
ALLEN              30 SALESMAN
TURNER             30 SALESMAN
JAMES              30 CLERK
WARD               30 SALESMAN
FORD               20 ANALYST
SMITH              20 CLERK
SCOTT              20 ANALYST
ADAMS              20 CLERK
MILLER             10 CLERK

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job
  2  FROM Emp
  3* WHERE Job = 'SALESMAN'
SQL> /

ENAME           DEPTNO JOB
---------- ---------- ---------
MARTIN             30 SALESMAN
ALLEN              30 SALESMAN
TURNER             30 SALESMAN
WARD               30 SALESMAN

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job
  2  FROM Emp
  3* WHERE Deptno = 30
SQL> /

ENAME           DEPTNO JOB
---------- ---------- ---------
BLAKE              30 MANAGER
MARTIN             30 SALESMAN
ALLEN              30 SALESMAN
```

```
TURNER               30 SALESMAN
JAMES                30 CLERK
WARD                 30 SALESMAN

6 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job
  2  FROM Emp
  3* WHERE Deptno = 30 AND Job <> 'SALESMAN'
SQL> /

ENAME            DEPTNO JOB
---------- ---------- ---------
BLAKE                30 MANAGER
JAMES                30 CLERK


SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job
  2  FROM Emp
  3* WHERE Deptno = 30 AND NOT Job = 'SALESMAN'
SQL> /

ENAME            DEPTNO JOB
---------- ---------- ---------
BLAKE                30 MANAGER
JAMES                30 CLERK

SQL> INSERT INTO Emp(Empno, Ename, Deptno, Job)
  2  VALUES(7935, 'SURESH', 20, 'SALESMAN');

1 row created.

SQL> INSERT INTO Emp(Empno, Ename, Deptno, Job)
  2  VALUES(7936, 'RUPESH', 10, 'SALESMAN');

1 row created.

SQL> SELECT Ename, Deptno, Job
  2  FROM Emp
  3  WHERE Job = 'SALESMAN';

ENAME            DEPTNO JOB
---------- ---------- ---------
MARTIN               30 SALESMAN
ALLEN                30 SALESMAN
TURNER               30 SALESMAN
WARD                 30 SALESMAN
```

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```
SURESH              20 SALESMAN
RUPESH              10 SALESMAN

6 rows selected.

SQL> SELECT Ename, Deptno, Job
  2  FROM Emp
  3  WHERE Deptno = 30 AND NOT Job = 'SALESMAN';

ENAME           DEPTNO JOB
---------- ---------- ---------
BLAKE              30 MANAGER
JAMES              30 CLERK

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job
  2  FROM Emp
  3* WHERE Deptno = 30 AND Job = 'SALESMAN'
SQL> /

ENAME           DEPTNO JOB
---------- ---------- ---------
MARTIN             30 SALESMAN
ALLEN              30 SALESMAN
TURNER             30 SALESMAN
WARD               30 SALESMAN

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job
  2  FROM Emp
  3* WHERE NOt(Deptno = 30 AND Job = 'SALESMAN')
SQL> /

ENAME           DEPTNO JOB
---------- ---------- ---------
KING               10 PRESIDENT
BLAKE              30 MANAGER
CLARK              10 MANAGER
JONES              20 MANAGER
JAMES              30 CLERK
FORD               20 ANALYST
SMITH              20 CLERK
SCOTT              20 ANALYST
ADAMS              20 CLERK
MILLER             10 CLERK
SURESH             20 SALESMAN
RUPESH             10 SALESMAN
```

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```
12 rows selected.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> SELECT Ename, Deptno, Sal
  2  FROM Emp
  3  WHERE Sal = 3000;

ENAME          DEPTNO         SAL
---------- ---------- ----------
FORD               20       3000
SCOTT              20       3000

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal
  2  FROM Emp
  3* WHERE Sal <> 3000
SQL> /

ENAME          DEPTNO         SAL
---------- ---------- ----------
KING               10       5000
BLAKE              30       2850
CLARK              10       2450
JONES              20       2975
MARTIN             30       1250
ALLEN              30       1600
TURNER             30       1500
JAMES              30        950
WARD               30       1250
SMITH              20        800
ADAMS              20       1100
MILLER             10       1300

12 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal
  2  FROM Emp
  3* WHERE Sal > 1600
SQL> /

ENAME          DEPTNO         SAL
---------- ---------- ----------
```

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```
    KING                  10         5000
    BLAKE                 30         2850
    CLARK                 10         2450
    JONES                 20         2975
    FORD                  20         3000
    SCOTT                 20         3000

6 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Sal
  2   FROM Emp
  3*  WHERE Sal < 1600
SQL> /

ENAME            DEPTNO        SAL
----------  ----------  ----------
MARTIN               30       1250
TURNER               30       1500
JAMES                30        950
WARD                 30       1250
SMITH                20        800
ADAMS                20       1100
MILLER               10       1300

7 rows selected.

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Sal, Job
  2   FROM Emp
  3*  WHERE Job = 'MANAGER'
SQL> /

ENAME            DEPTNO       SAL JOB
----------  ----------  ---------- ---------
BLAKE                30      2850 MANAGER
CLARK                10      2450 MANAGER
JONES                20      2975 MANAGER

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Sal, Job
  2   FROM Emp
  3*  WHERE Job <> 'MANAGER'
SQL> /
```

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```
ENAME           DEPTNO        SAL JOB
---------- ---------- ---------- ---------
KING               10       5000 PRESIDENT
MARTIN             30       1250 SALESMAN
ALLEN              30       1600 SALESMAN
TURNER             30       1500 SALESMAN
JAMES              30        950 CLERK
WARD               30       1250 SALESMAN
FORD               20       3000 ANALYST
SMITH              20        800 CLERK
SCOTT              20       3000 ANALYST
ADAMS              20       1100 CLERK
MILLER             10       1300 CLERK

11 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, Job
  2  FROM Emp
  3* WHERE Job > 'MANAGER'
SQL> /

ENAME           DEPTNO        SAL JOB
---------- ---------- ---------- ---------
KING               10       5000 PRESIDENT
MARTIN             30       1250 SALESMAN
ALLEN              30       1600 SALESMAN
TURNER             30       1500 SALESMAN
WARD               30       1250 SALESMAN

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, Job
  2  FROM Emp
  3* WHERE Job = 'MANAGER'
SQL> /

ENAME           DEPTNO        SAL JOB
---------- ---------- ---------- ---------
BLAKE              30       2850 MANAGER
CLARK              10       2450 MANAGER
JONES              20       2975 MANAGER

SQL> ED
Wrote file afiedt.buf

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

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```
   3* WHERE 'MANAGER' = Job
SQL> /

ENAME          DEPTNO         SAL JOB
---------- ---------- ---------- ---------
BLAKE              30        2850 MANAGER
CLARK              10        2450 MANAGER
JONES              20        2975 MANAGER

SQL> cl scr

SQL> SELECT Ename, Deptno, Sal, HireDate
  2  FROM Emp
  3  WHERE HireDate = '03-DEC-81';

ENAME          DEPTNO         SAL HIREDATE
---------- ---------- ---------- ---------
JAMES              30         950 03-DEC-81
FORD               20        3000 03-DEC-81

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, HireDate
  2  FROM Emp
  3* WHERE HireDate = '03-DEC-1981'
SQL> /

ENAME          DEPTNO         SAL HIREDATE
---------- ---------- ---------- ---------
JAMES              30         950 03-DEC-81
FORD               20        3000 03-DEC-81

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, HireDate
  2  FROM Emp
  3* WHERE HireDate = '03-DEC-2081'
SQL> /

no rows selected

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, HireDate
  2  FROM Emp
  3* WHERE HireDate = '03-DECEMBER-1981'
SQL> /

ENAME          DEPTNO         SAL HIREDATE
```

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```
---------- ---------- ---------- ---------
JAMES              30         950 03-DEC-81
FORD              20        3000 03-DEC-81

SQL> cl scr

SQL> SELECT Ename, Deptno, Sal, Comm
  2  FROM Emp;

ENAME          DEPTNO        SAL       COMM
---------- ---------- ---------- ----------
KING              10       5000
BLAKE             30       2850
CLARK             10       2450
JONES             20       2975
MARTIN            30       1250       1400
ALLEN             30       1600        300
TURNER            30       1500          0
JAMES             30        950
WARD              30       1250        500
FORD              20       3000
SMITH             20        800
SCOTT             20       3000
ADAMS             20       1100
MILLER            10       1300

14 rows selected.

SQL> SELECT Ename, Deptno, Sal, Comm
  2  FROM Emp
  3  WHERE Comm = NULL;

no rows selected

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, Comm
  2  FROM Emp
  3* WHERE Comm <> NULL
SQL> /

no rows selected

SQL> cl scr

SQL> SELECT
  2   Ename,
  3   Deptno,
  4   Job,
  5   Sal
  6  FROM Emp
```

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```
  7   WHERE
  8   Deptno = 10 OR
  9   Deptno = 20 AND
 10   Job = 'SALESMAN' AND
 11   Sal > 2500 OR
 12   Sal < 1500;

ENAME          DEPTNO JOB             SAL
---------- ---------- --------- ----------
KING               10 PRESIDENT      5000
CLARK              10 MANAGER        2450
MARTIN             30 SALESMAN       1250
JAMES              30 CLERK           950
WARD               30 SALESMAN       1250
SMITH              20 CLERK           800
ADAMS              20 CLERK          1100
MILLER             10 CLERK          1300

8 rows selected.

SQL> SELECT
  2   Ename,
  3   Deptno,
  4   Job,
  5   Sal
  6   FROM Emp
  7   WHERE
  8   Deptno = 10 OR
  9   (Deptno = 20 AND Job = 'SALESMAN') AND
 10   (Sal > 2500 OR Sal < 1500);

ENAME          DEPTNO JOB             SAL
---------- ---------- --------- ----------
KING               10 PRESIDENT      5000
CLARK              10 MANAGER        2450
MILLER             10 CLERK          1300

SQL> cl scr

SQL> SELECT
  2   Department_ID, Job_ID, SUM(Salary), AVG(Salary)
  3   FROM Employees
  4   WHERE
  5   (
  6    (DEPARTMENT_ID = 20  AND (
  7                   JOB_ID = 'MK_MAN' OR
  8                   JOB_ID = 'MK_REP' OR
  9                   JOB_ID = 'PU_MAN' OR
 10                   JOB_ID = 'PU_CLERK' OR
 11                   JOB_ID = 'HR_REP' OR
 12                   JOB_ID = 'SH_CLERK' OR
 13                   JOB_ID = 'IT_PROG' OR
```

```
14                        JOB_ID = 'SA_REP'
15                        ) AND
16                        (
17                        SALARY >= 5000 AND SALARY <= 30000
18                        )
19    ) OR
20     (DEPARTMENT_ID = 30   AND (
21                        JOB_ID = 'MK_MAN' OR
22                        JOB_ID = 'MK_REP' OR
23                        JOB_ID = 'PU_MAN' OR
24                        JOB_ID = 'PU_CLERK' OR
25                        JOB_ID = 'HR_REP' OR
26                        JOB_ID = 'SH_CLERK' OR
27                        JOB_ID = 'IT_PROG' OR
28                        JOB_ID = 'SA_REP'
29                        ) AND
30                        (
31                        SALARY >= 5000 AND SALARY <= 30000
32                        )
33    ) OR
34     (DEPARTMENT_ID = 40   AND (
35                        JOB_ID = 'MK_MAN' OR
36                        JOB_ID = 'MK_REP' OR
37                        JOB_ID = 'PU_MAN' OR
38                        JOB_ID = 'PU_CLERK' OR
39                        JOB_ID = 'HR_REP' OR
40                        JOB_ID = 'SH_CLERK' OR
41                        JOB_ID = 'IT_PROG' OR
42                        JOB_ID = 'SA_REP'
43                        ) AND
44                        (
45                        SALARY >= 5000 AND SALARY <= 30000
46                        )
47    ) OR
48     (DEPARTMENT_ID = 50   AND (
49                        JOB_ID = 'MK_MAN' OR
50                        JOB_ID = 'MK_REP' OR
51                        JOB_ID = 'PU_MAN' OR
52                        JOB_ID = 'PU_CLERK' OR
53                        JOB_ID = 'HR_REP' OR
54                        JOB_ID = 'SH_CLERK' OR
55                        JOB_ID = 'IT_PROG' OR
56                        JOB_ID = 'SA_REP'
57                        ) AND
58                        (
59                        SALARY >= 5000 AND SALARY <= 30000
60                        )
61    ) OR
62     (DEPARTMENT_ID = 60   AND (
63                        JOB_ID = 'MK_MAN' OR
64                        JOB_ID = 'MK_REP' OR
65                        JOB_ID = 'PU_MAN' OR
```

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```
 66                             JOB_ID = 'PU_CLERK' OR
 67                             JOB_ID = 'HR_REP' OR
 68                             JOB_ID = 'SH_CLERK' OR
 69                             JOB_ID = 'IT_PROG' OR
 70                             JOB_ID = 'SA_REP'
 71                             ) AND
 72                             (
 73                             SALARY >= 5000 AND SALARY <= 30000
 74                             )
 75     ) OR
 76     (DEPARTMENT_ID = 80  AND (
 77                             JOB_ID = 'MK_MAN' OR
 78                             JOB_ID = 'MK_REP' OR
 79                             JOB_ID = 'PU_MAN' OR
 80                             JOB_ID = 'PU_CLERK' OR
 81                             JOB_ID = 'HR_REP' OR
 82                             JOB_ID = 'SH_CLERK' OR
 83                             JOB_ID = 'IT_PROG' OR
 84                             JOB_ID = 'SA_REP'
 85                             ) AND
 86                             (
 87                             SALARY >= 5000 AND SALARY <= 30000
 88                             )
 89     ) OR
 90     (DEPARTMENT_ID = 20  AND (
 91                             JOB_ID = 'MK_MAN' OR
 92                             JOB_ID = 'MK_REP' OR
 93                             JOB_ID = 'PU_MAN' OR
 94                             JOB_ID = 'PU_CLERK' OR
 95                             JOB_ID = 'HR_REP' OR
 96                             JOB_ID = 'SH_CLERK' OR
 97                             JOB_ID = 'IT_PROG' OR
 98                             JOB_ID = 'SA_REP'
 99                             ) AND
100                             (
101                             SALARY >= 5000 AND SALARY <= 30000
102                             )
103     ) OR
104     (DEPARTMENT_ID = 20  AND (
105                             JOB_ID = 'MK_MAN' OR
106                             JOB_ID = 'MK_REP' OR
107                             JOB_ID = 'PU_MAN' OR
108                             JOB_ID = 'PU_CLERK' OR
109                             JOB_ID = 'HR_REP' OR
110                             JOB_ID = 'SH_CLERK' OR
111                             JOB_ID = 'IT_PROG' OR
112                             JOB_ID = 'SA_REP'
113                             ) AND
114                             (
115                             SALARY >= 5000 AND SALARY <= 30000
116                             )
117     )
```

```
118   )
119   GROUP BY Department_ID, Job_ID
120
SQL> cl scr

SQL> CONN HR/HR
Connected.
SQL> SELECT
  2   Department_ID, Job_ID, SUM(Salary), AVG(Salary)
  3   FROM Employees
  4   WHERE
  5   (
  6     (DEPARTMENT_ID = 20  AND (
  7                        JOB_ID = 'MK_MAN' OR
  8                        JOB_ID = 'MK_REP' OR
  9                        JOB_ID = 'PU_MAN' OR
 10                        JOB_ID = 'PU_CLERK' OR
 11                        JOB_ID = 'HR_REP' OR
 12                        JOB_ID = 'SH_CLERK' OR
 13                        JOB_ID = 'IT_PROG' OR
 14                        JOB_ID = 'SA_REP'
 15                        ) AND
 16                        (
 17                        SALARY >= 5000 AND SALARY <= 30000
 18                        )
 19   ) OR
 20     (DEPARTMENT_ID = 30  AND (
 21                        JOB_ID = 'MK_MAN' OR
 22                        JOB_ID = 'MK_REP' OR
 23                        JOB_ID = 'PU_MAN' OR
 24                        JOB_ID = 'PU_CLERK' OR
 25                        JOB_ID = 'HR_REP' OR
 26                        JOB_ID = 'SH_CLERK' OR
 27                        JOB_ID = 'IT_PROG' OR
 28                        JOB_ID = 'SA_REP'
 29                        ) AND
 30                        (
 31                        SALARY >= 5000 AND SALARY <= 30000
 32                        )
 33   ) OR
 34     (DEPARTMENT_ID = 40  AND (
 35                        JOB_ID = 'MK_MAN' OR
 36                        JOB_ID = 'MK_REP' OR
 37                        JOB_ID = 'PU_MAN' OR
 38                        JOB_ID = 'PU_CLERK' OR
 39                        JOB_ID = 'HR_REP' OR
 40                        JOB_ID = 'SH_CLERK' OR
 41                        JOB_ID = 'IT_PROG' OR
 42                        JOB_ID = 'SA_REP'
 43                        ) AND
 44                        (
 45                        SALARY >= 5000 AND SALARY <= 30000
```

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```
46                    )
47    ) OR
48    (DEPARTMENT_ID = 50  AND (
49                    JOB_ID = 'MK_MAN' OR
50                    JOB_ID = 'MK_REP' OR
51                    JOB_ID = 'PU_MAN' OR
52                    JOB_ID = 'PU_CLERK' OR
53                    JOB_ID = 'HR_REP' OR
54                    JOB_ID = 'SH_CLERK' OR
55                    JOB_ID = 'IT_PROG' OR
56                    JOB_ID = 'SA_REP'
57                    ) AND
58                    (
59                    SALARY >= 5000 AND SALARY <= 30000
60                    )
61    ) OR
62    (DEPARTMENT_ID = 60  AND (
63                    JOB_ID = 'MK_MAN' OR
64                    JOB_ID = 'MK_REP' OR
65                    JOB_ID = 'PU_MAN' OR
66                    JOB_ID = 'PU_CLERK' OR
67                    JOB_ID = 'HR_REP' OR
68                    JOB_ID = 'SH_CLERK' OR
69                    JOB_ID = 'IT_PROG' OR
70                    JOB_ID = 'SA_REP'
71                    ) AND
72                    (
73                    SALARY >= 5000 AND SALARY <= 30000
74                    )
75    ) OR
76    (DEPARTMENT_ID = 80  AND (
77                    JOB_ID = 'MK_MAN' OR
78                    JOB_ID = 'MK_REP' OR
79                    JOB_ID = 'PU_MAN' OR
80                    JOB_ID = 'PU_CLERK' OR
81                    JOB_ID = 'HR_REP' OR
82                    JOB_ID = 'SH_CLERK' OR
83                    JOB_ID = 'IT_PROG' OR
84                    JOB_ID = 'SA_REP'
85                    ) AND
86                    (
87                    SALARY >= 5000 AND SALARY <= 30000
88                    )
89    ) OR
90    (DEPARTMENT_ID = 20  AND (
91                    JOB_ID = 'MK_MAN' OR
92                    JOB_ID = 'MK_REP' OR
93                    JOB_ID = 'PU_MAN' OR
94                    JOB_ID = 'PU_CLERK' OR
95                    JOB_ID = 'HR_REP' OR
96                    JOB_ID = 'SH_CLERK' OR
97                    JOB_ID = 'IT_PROG' OR
```

```
 98                     JOB_ID = 'SA_REP'
 99                     ) AND
100                     (
101                     SALARY >= 5000 AND SALARY <= 30000
102                     )
103    ) OR
104    (DEPARTMENT_ID = 20  AND (
105                     JOB_ID = 'MK_MAN' OR
106                     JOB_ID = 'MK_REP' OR
107                     JOB_ID = 'PU_MAN' OR
108                     JOB_ID = 'PU_CLERK' OR
109                     JOB_ID = 'HR_REP' OR
110                     JOB_ID = 'SH_CLERK' OR
111                     JOB_ID = 'IT_PROG' OR
112                     JOB_ID = 'SA_REP'
113                     ) AND
114                     (
115                     SALARY >= 5000 AND SALARY <= 30000
116                     )
117    )
118    )
119    GROUP BY Department_ID, Job_ID;

DEPARTMENT_ID JOB_ID      SUM(SALARY) AVG(SALARY)
------------- ---------- ----------- ----------
           80 SA_REP           243500 8396.55172
           20 MK_MAN            13000       13000
           60 IT_PROG          15000        7500
           20 MK_REP            6000        6000
           40 HR_REP            6500        6500
           30 PU_MAN           11000       11000

6 rows selected.

SQL> SELECT
  2  Department_ID, Job_ID, SUM(Salary), AVG(Salary)
  3  FROM Employees
  4  WHERE
  5  (
  6    (DEPARTMENT_ID = 20  OR
  7     DEPARTMENT_ID = 30  OR
  8     DEPARTMENT_ID = 40  OR
  9     DEPARTMENT_ID = 50  OR
 10     DEPARTMENT_ID = 60  OR
 11     DEPARTMENT_ID = 80
 12      ) AND
 13    (JOB_ID = 'MK_MAN' OR
 14     JOB_ID = 'MK_REP' OR
 15     JOB_ID = 'PU_MAN' OR
 16     JOB_ID = 'PU_CLERK' OR
 17     JOB_ID = 'HR_REP' OR
 18     JOB_ID = 'SH_CLERK' OR
```

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```
19    JOB_ID = 'IT_PROG' OR
20    JOB_ID = 'SA_REP'
21     ) AND
22  (
23   SALARY >= 5000 AND SALARY <= 30000
24  )
25  )
26  GROUP BY Department_ID, Job_ID;

DEPARTMENT_ID JOB_ID      SUM(SALARY) AVG(SALARY)
------------- ---------- ----------- -----------
           80 SA_REP          243500 8396.55172
           20 MK_MAN           13000       13000
           60 IT_PROG          15000        7500
           20 MK_REP            6000        6000
           40 HR_REP            6500        6500
           30 PU_MAN           11000       11000

6 rows selected.

SQL> cl scr

SQL> SET AUTOTRACE ON EXPLAIN
SQL> SELECT
  2  Department_ID, Job_ID, SUM(Salary), AVG(Salary)
  3  FROM Employees
  4  WHERE
  5  (
  6    (DEPARTMENT_ID = 20   OR
  7     DEPARTMENT_ID = 30   OR
  8     DEPARTMENT_ID = 40   OR
  9     DEPARTMENT_ID = 50   OR
 10     DEPARTMENT_ID = 60   OR
 11     DEPARTMENT_ID = 80
 12     ) AND
 13   (JOB_ID = 'MK_MAN' OR
 14    JOB_ID = 'MK_REP' OR
 15    JOB_ID = 'PU_MAN' OR
 16    JOB_ID = 'PU_CLERK' OR
 17    JOB_ID = 'HR_REP' OR
 18    JOB_ID = 'SH_CLERK' OR
 19    JOB_ID = 'IT_PROG' OR
 20    JOB_ID = 'SA_REP'
 21    ) AND
 22  (
 23   SALARY >= 5000 AND SALARY <= 30000
 24  )
 25  )
 26  GROUP BY Department_ID, Job_ID;

DEPARTMENT_ID JOB_ID      SUM(SALARY) AVG(SALARY)
------------- ---------- ----------- -----------
```

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```
        80 SA_REP           243500  8396.55172
        20 MK_MAN            13000       13000
        60 IT_PROG           15000        7500
        20 MK_REP             6000        6000
        40 HR_REP             6500        6500
        30 PU_MAN            11000       11000

6 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 1192169904

--------------------------------------------------------------------------
-------
| Id  | Operation          | Name      | Rows  | Bytes| Cost (%CPU)|
Time      |
--------------------------------------------------------------------------
-------
|   0 | SELECT STATEMENT   |           |    34 |  544 |     4  (25)|
00:00:01 |
|   1 |  HASH GROUP BY     |           |    34 |  544 |     4  (25)|
00:00:01 |
|*  2 |   TABLE ACCESS FULL| EMPLOYEES |    49 |  784 |     3   (0)|
00:00:01 |
--------------------------------------------------------------------------
-------


Predicate Information (identified by operation id):
---------------------------------------------------

   2 - filter("SALARY">=5000 AND ("JOB_ID"='HR_REP' OR
              "JOB_ID"='IT_PROG' OR "JOB_ID"='MK_MAN' OR
"JOB_ID"='MK_REP' OR
              "JOB_ID"='PU_CLERK' OR "JOB_ID"='PU_MAN' OR
"JOB_ID"='SA_REP' OR
              "JOB_ID"='SH_CLERK') AND ("DEPARTMENT_ID"=20 OR
"DEPARTMENT_ID"=30 OR
              "DEPARTMENT_ID"=40 OR "DEPARTMENT_ID"=50 OR
"DEPARTMENT_ID"=60 OR
              "DEPARTMENT_ID"=80) AND "SALARY"<=30000)

SQL> SELECT
  2  Department_ID, Job_ID, SUM(Salary), AVG(Salary)
  3  FROM Employees
  4  WHERE
  5  (
  6    (DEPARTMENT_ID = 20  AND (
  7                  JOB_ID = 'MK_MAN' OR
  8                  JOB_ID = 'MK_REP' OR
  9                  JOB_ID = 'PU_MAN' OR
```

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```
10                          JOB_ID = 'PU_CLERK' OR
11                          JOB_ID = 'HR_REP' OR
12                          JOB_ID = 'SH_CLERK' OR
13                          JOB_ID = 'IT_PROG' OR
14                          JOB_ID = 'SA_REP'
15                          ) AND
16                          (
17                          SALARY >= 5000 AND SALARY <= 30000
18                          )
19    ) OR
20    (DEPARTMENT_ID = 30  AND (
21                          JOB_ID = 'MK_MAN' OR
22                          JOB_ID = 'MK_REP' OR
23                          JOB_ID = 'PU_MAN' OR
24                          JOB_ID = 'PU_CLERK' OR
25                          JOB_ID = 'HR_REP' OR
26                          JOB_ID = 'SH_CLERK' OR
27                          JOB_ID = 'IT_PROG' OR
28                          JOB_ID = 'SA_REP'
29                          ) AND
30                          (
31                          SALARY >= 5000 AND SALARY <= 30000
32                          )
33    ) OR
34    (DEPARTMENT_ID = 40  AND (
35                          JOB_ID = 'MK_MAN' OR
36                          JOB_ID = 'MK_REP' OR
37                          JOB_ID = 'PU_MAN' OR
38                          JOB_ID = 'PU_CLERK' OR
39                          JOB_ID = 'HR_REP' OR
40                          JOB_ID = 'SH_CLERK' OR
41                          JOB_ID = 'IT_PROG' OR
42                          JOB_ID = 'SA_REP'
43                          ) AND
44                          (
45                          SALARY >= 5000 AND SALARY <= 30000
46                          )
47    ) OR
48    (DEPARTMENT_ID = 50  AND (
49                          JOB_ID = 'MK_MAN' OR
50                          JOB_ID = 'MK_REP' OR
51                          JOB_ID = 'PU_MAN' OR
52                          JOB_ID = 'PU_CLERK' OR
53                          JOB_ID = 'HR_REP' OR
54                          JOB_ID = 'SH_CLERK' OR
55                          JOB_ID = 'IT_PROG' OR
56                          JOB_ID = 'SA_REP'
57                          ) AND
58                          (
59                          SALARY >= 5000 AND SALARY <= 30000
60                          )
61    ) OR
```

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```
62    (DEPARTMENT_ID = 60  AND (
63                    JOB_ID = 'MK_MAN' OR
64                    JOB_ID = 'MK_REP' OR
65                    JOB_ID = 'PU_MAN' OR
66                    JOB_ID = 'PU_CLERK' OR
67                    JOB_ID = 'HR_REP' OR
68                    JOB_ID = 'SH_CLERK' OR
69                    JOB_ID = 'IT_PROG' OR
70                    JOB_ID = 'SA_REP'
71                    ) AND
72                    (
73                    SALARY >= 5000 AND SALARY <= 30000
74                    )
75    ) OR
76    (DEPARTMENT_ID = 80  AND (
77                    JOB_ID = 'MK_MAN' OR
78                    JOB_ID = 'MK_REP' OR
79                    JOB_ID = 'PU_MAN' OR
80                    JOB_ID = 'PU_CLERK' OR
81                    JOB_ID = 'HR_REP' OR
82                    JOB_ID = 'SH_CLERK' OR
83                    JOB_ID = 'IT_PROG' OR
84                    JOB_ID = 'SA_REP'
85                    ) AND
86                    (
87                    SALARY >= 5000 AND SALARY <= 30000
88                    )
89    ) OR
90    (DEPARTMENT_ID = 20  AND (
91                    JOB_ID = 'MK_MAN' OR
92                    JOB_ID = 'MK_REP' OR
93                    JOB_ID = 'PU_MAN' OR
94                    JOB_ID = 'PU_CLERK' OR
95                    JOB_ID = 'HR_REP' OR
96                    JOB_ID = 'SH_CLERK' OR
97                    JOB_ID = 'IT_PROG' OR
98                    JOB_ID = 'SA_REP'
99                    ) AND
100                   (
101                   SALARY >= 5000 AND SALARY <= 30000
102                   )
103   ) OR
104   (DEPARTMENT_ID = 20  AND (
105                   JOB_ID = 'MK_MAN' OR
106                   JOB_ID = 'MK_REP' OR
107                   JOB_ID = 'PU_MAN' OR
108                   JOB_ID = 'PU_CLERK' OR
109                   JOB_ID = 'HR_REP' OR
110                   JOB_ID = 'SH_CLERK' OR
111                   JOB_ID = 'IT_PROG' OR
112                   JOB_ID = 'SA_REP'
113                   ) AND
```

```
114                     (
115                     SALARY >= 5000 AND SALARY <= 30000
116                     )
117   )
118   )
119   GROUP BY Department_ID, Job_ID;

DEPARTMENT_ID JOB_ID     SUM(SALARY) AVG(SALARY)
------------- ---------- ----------- -----------
           80 SA_REP          243500  8396.55172
           20 MK_MAN           13000       13000
           60 IT_PROG          15000        7500
           20 MK_REP            6000        6000
           40 HR_REP            6500        6500
           30 PU_MAN           11000       11000

6 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 1192169904

--------------------------------------------------------------------------
-------
| Id  | Operation           | Name      | Rows  | Bytes | Cost (%CPU)|
Time      |
--------------------------------------------------------------------------
-------
|   0 | SELECT STATEMENT    |           |    34 |   544 |     4  (25)|
00:00:01 |
|   1 |  HASH GROUP BY      |           |    34 |   544 |     4  (25)|
00:00:01 |
|*  2 |   TABLE ACCESS FULL | EMPLOYEES |    49 |   784 |     3   (0)|
00:00:01 |
--------------------------------------------------------------------------
-------


Predicate Information (identified by operation id):
---------------------------------------------------

   2 - filter("SALARY">=5000 AND ("JOB_ID"='HR_REP' OR
            "JOB_ID"='IT_PROG' OR "JOB_ID"='MK_MAN' OR
"JOB_ID"='MK_REP' OR
            "JOB_ID"='PU_CLERK' OR "JOB_ID"='PU_MAN' OR
"JOB_ID"='SA_REP' OR
            "JOB_ID"='SH_CLERK') AND ("DEPARTMENT_ID"=20 OR
"DEPARTMENT_ID"=30 OR
            "DEPARTMENT_ID"=40 OR "DEPARTMENT_ID"=50 OR
"DEPARTMENT_ID"=60 OR
            "DEPARTMENT_ID"=80) AND "SALARY"<=30000)
```

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```
SQL> cl scr

SQL> SET AUTOTRACE OFF EXPLAIN
SQL> cl scr

SQL> CONN SCOTT/tiger
Connected.
SQL> cl scr

SQL> SELECT Ename, Deptno, Job, Sal
  2  FROM Emp
  3  WHERE Sal >= 1100 AND Sal <= 2850;

ENAME           DEPTNO JOB              SAL
---------- ---------- --------- ----------
BLAKE               30 MANAGER         2850
CLARK               10 MANAGER         2450
MARTIN              30 SALESMAN        1250
ALLEN               30 SALESMAN        1600
TURNER              30 SALESMAN        1500
WARD                30 SALESMAN        1250
ADAMS               20 CLERK           1100
MILLER              10 CLERK           1300

8 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, Sal
  2  FROM Emp
  3* WHERE Sal BETWEEN 1100 AND 2850
SQL> /

ENAME           DEPTNO JOB              SAL
---------- ---------- --------- ----------
BLAKE               30 MANAGER         2850
CLARK               10 MANAGER         2450
MARTIN              30 SALESMAN        1250
ALLEN               30 SALESMAN        1600
TURNER              30 SALESMAN        1500
WARD                30 SALESMAN        1250
ADAMS               20 CLERK           1100
MILLER              10 CLERK           1300

8 rows selected.

SQL> ED
Wrote file afiedt.buf

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

```
   3* WHERE Sal < 1100 OR Sal > 2850
SQL> /


ENAME           DEPTNO JOB            SAL
---------- ---------- --------- ----------
KING               10 PRESIDENT     5000
JONES              20 MANAGER       2975
JAMES              30 CLERK          950
FORD               20 ANALYST       3000
SMITH              20 CLERK          800
SCOTT              20 ANALYST       3000

6 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, Sal
  2  FROM Emp
  3* WHERE Sal NOT BETWEEN 1100 AND 2850
SQL> /

ENAME           DEPTNO JOB            SAL
---------- ---------- --------- ----------
KING               10 PRESIDENT     5000
JONES              20 MANAGER       2975
JAMES              30 CLERK          950
FORD               20 ANALYST       3000
SMITH              20 CLERK          800
SCOTT              20 ANALYST       3000

6 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, Sal
  2  FROM Emp
  3* WHERE Sal &GiveState BETWEEN 1100 AND 2850
SQL> /
Enter value for givestate:

ENAME           DEPTNO JOB            SAL
---------- ---------- --------- ----------
BLAKE              30 MANAGER       2850
CLARK              10 MANAGER       2450
MARTIN             30 SALESMAN      1250
ALLEN              30 SALESMAN      1600
TURNER             30 SALESMAN      1500
WARD               30 SALESMAN      1250
ADAMS              20 CLERK         1100
MILLER             10 CLERK         1300
```

```
8 rows selected.

SQL> /
Enter value for givestate: NOT

ENAME           DEPTNO JOB             SAL
---------- ---------- --------- ----------
KING               10 PRESIDENT      5000
JONES              20 MANAGER        2975
JAMES              30 CLERK           950
FORD               20 ANALYST        3000
SMITH              20 CLERK           800
SCOTT              20 ANALYST        3000

6 rows selected.

SQL> cl scr

SQL> SELECT
  2  Ename, Deptno, Job, Sal
  3  FROM Emp
  4  WHERE Deptno = 10 OR Deptno = 20 OR Deptno = 30;

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

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  Ename, Deptno, Job, Sal
  3  FROM Emp
  4* WHERE Deptno IN(10, 20, 30)
SQL> /
```

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

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   Ename, Deptno, Job, Sal
  3   FROM Emp
  4*  WHERE Deptno IN(10, 30)
SQL> /

ENAME           DEPTNO JOB              SAL
---------- ---------- --------- ----------
KING               10 PRESIDENT       5000
BLAKE              30 MANAGER         2850
CLARK              10 MANAGER         2450
MARTIN             30 SALESMAN        1250
ALLEN              30 SALESMAN        1600
TURNER             30 SALESMAN        1500
JAMES              30 CLERK            950
WARD               30 SALESMAN        1250
MILLER             10 CLERK           1300

9 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   Ename, Deptno, Job, Sal
  3   FROM Emp
  4*  WHERE Deptno NOT IN(10, 30)
SQL> /

ENAME           DEPTNO JOB              SAL
```

```
---------- ---------- --------- ----------
JONES               20 MANAGER      2975
FORD                20 ANALYST      3000
SMITH               20 CLERK         800
SCOTT               20 ANALYST      3000
ADAMS               20 CLERK        1100

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  Ename, Deptno, Job, Sal
  3  FROM Emp
  4* WHERE Deptno &GiveState IN(10, 30)
SQL> /
Enter value for givestate:

ENAME              DEPTNO JOB             SAL
---------- ---------- --------- ----------
KING                10 PRESIDENT     5000
BLAKE               30 MANAGER      2850
CLARK               10 MANAGER      2450
MARTIN              30 SALESMAN     1250
ALLEN               30 SALESMAN     1600
TURNER              30 SALESMAN     1500
JAMES               30 CLERK         950
WARD                30 SALESMAN     1250
MILLER              10 CLERK        1300

9 rows selected.

SQL> /
Enter value for givestate: NOT

ENAME              DEPTNO JOB             SAL
---------- ---------- --------- ----------
JONES               20 MANAGER      2975
FORD                20 ANALYST      3000
SMITH               20 CLERK         800
SCOTT               20 ANALYST      3000
ADAMS               20 CLERK        1100

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  Ename, Deptno, Job, Sal
  3  FROM Emp
  4* WHERE Deptno IN(10, 30) AND Sal BETWEEN 1100 AND 2850
SQL> /

ENAME              DEPTNO JOB             SAL
```

```
---------- ---------- --------- ----------
BLAKE              30 MANAGER        2850
CLARK              10 MANAGER        2450
MARTIN             30 SALESMAN       1250
ALLEN              30 SALESMAN       1600
TURNER             30 SALESMAN       1500
WARD               30 SALESMAN       1250
MILLER             10 CLERK          1300

7 rows selected.

SQL> cl scr

SQL> SELECT Ename, Deptno, Sal, Job
  2  FROM Emp
  3  WHERE Job IN('CLERK', 'MANAGER', 'SALESMAN');

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

11 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, Job
  2  FROM Emp
  3* WHERE Job NOt IN('CLERK', 'MANAGER', 'SALESMAN')
SQL> /

ENAME          DEPTNO        SAL JOB
---------- ---------- ---------- ---------
KING               10       5000 PRESIDENT
FORD               20       3000 ANALYST
SCOTT              20       3000 ANALYST

SQL> cl scr

SQL> SELECT Ename, Deptno, Sal, Comm
  2  FROM Emp
  3  WHERE Comm = NULL;
```

```
no rows selected

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, Comm
  2  FROM Emp
  3* WHERE Comm IS NULL
SQL> /

ENAME          DEPTNO         SAL       COMM
---------- ---------- ---------- ----------
KING               10        5000
BLAKE              30        2850
CLARK              10        2450
JONES              20        2975
JAMES              30         950
FORD               20        3000
SMITH              20         800
SCOTT              20        3000
ADAMS              20        1100
MILLER             10        1300

10 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, Comm
  2  FROM Emp
  3* WHERE Comm IS NOT NULL
SQL> /

ENAME          DEPTNO         SAL       COMM
---------- ---------- ---------- ----------
MARTIN             30        1250       1400
ALLEN              30        1600        300
TURNER             30        1500          0
WARD               30        1250        500

SQL> ED
Wrote file afiedt.buf

  1  SELECT Empno, Ename, Deptno, MGR
  2  FROM Emp
  3* WHERE MGR IS NULL
SQL> /

    EMPNO ENAME          DEPTNO        MGR
---------- ---------- ---------- ----------
     7839 KING               10
```

```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Empno, Ename, Deptno, MGR
  2  FROM Emp
  3* WHERE MGR IS NOT NULL
SQL> /

     EMPNO ENAME          DEPTNO        MGR
---------- ---------- ---------- ----------
      7698 BLAKE              30       7839
      7782 CLARK              10       7839
      7566 JONES              20       7839
      7654 MARTIN             30       7698
      7499 ALLEN              30       7698
      7844 TURNER             30       7698
      7900 JAMES              30       7698
      7521 WARD               30       7698
      7902 FORD               20       7566
      7369 SMITH              20       7902
      7788 SCOTT              20       7566
      7876 ADAMS              20       7788
      7934 MILLER             10       7782

13 rows selected.

SQL> cl scr

SQL> SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3  WHERE Ename = 'S';

no rows selected

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE Ename LIKE 'S%'
SQL> /

ENAME          DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
SMITH              20 CLERK     17-DEC-80
SCOTT              20 ANALYST   09-DEC-82

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
```

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```
  2  FROM Emp
  3* WHERE Ename LIKE 'S%T'
SQL> /

ENAME           DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
SCOTT              20 ANALYST   09-DEC-82

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE Ename LIKE '%A%'
SQL> /

ENAME           DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
BLAKE              30 MANAGER   01-MAY-81
CLARK              10 MANAGER   09-JUN-81
MARTIN             30 SALESMAN  28-SEP-81
ALLEN              30 SALESMAN  20-FEB-81
JAMES              30 CLERK     03-DEC-81
WARD               30 SALESMAN  22-FEB-81
ADAMS              20 CLERK     12-JAN-83

7 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE Ename LIKE '%A%N'
SQL> /

ENAME           DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
MARTIN             30 SALESMAN  28-SEP-81
ALLEN              30 SALESMAN  20-FEB-81

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE Ename LIKE '%A%A%'
SQL> /

ENAME           DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
ADAMS              20 CLERK     12-JAN-83
```

```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE Ename LIKE 'A____'
SQL> /

ENAME           DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
ALLEN              30 SALESMAN  20-FEB-81
ADAMS              20 CLERK     12-JAN-83

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE Ename LIKE 'A_A__'
SQL> /

ENAME           DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
ADAMS              20 CLERK     12-JAN-83

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE Ename NOT LIKE 'A_A__'
SQL> /

ENAME           DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
KING               10 PRESIDENT 17-NOV-81
BLAKE              30 MANAGER   01-MAY-81
CLARK              10 MANAGER   09-JUN-81
JONES              20 MANAGER   02-APR-81
MARTIN             30 SALESMAN  28-SEP-81
ALLEN              30 SALESMAN  20-FEB-81
TURNER             30 SALESMAN  08-SEP-81
JAMES              30 CLERK     03-DEC-81
WARD               30 SALESMAN  22-FEB-81
FORD               20 ANALYST   03-DEC-81
SMITH              20 CLERK     17-DEC-80
SCOTT              20 ANALYST   09-DEC-82
MILLER             10 CLERK     23-JAN-82

13 rows selected.
```

```
SQL> cl scr

SQL> SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp;

ENAME          DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
KING               10 PRESIDENT 17-NOV-81
BLAKE              30 MANAGER   01-MAY-81
CLARK              10 MANAGER   09-JUN-81
JONES              20 MANAGER   02-APR-81
MARTIN             30 SALESMAN  28-SEP-81
ALLEN              30 SALESMAN  20-FEB-81
TURNER             30 SALESMAN  08-SEP-81
JAMES              30 CLERK     03-DEC-81
WARD               30 SALESMAN  22-FEB-81
FORD               20 ANALYST   03-DEC-81
SMITH              20 CLERK     17-DEC-80
SCOTT              20 ANALYST   09-DEC-82
ADAMS              20 CLERK     12-JAN-83
MILLER             10 CLERK     23-JAN-82

14 rows selected.

SQL> SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3  WHERE Ename = 'SM%';

no rows selected

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE Job LIKE 'MANAGER'
SQL> /

ENAME          DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
BLAKE              30 MANAGER   01-MAY-81
CLARK              10 MANAGER   09-JUN-81
JONES              20 MANAGER   02-APR-81

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE 'MANAGER' LIKE Job
```

```
SQL> /

ENAME          DEPTNO JOB        HIREDATE
---------- ---------- --------- ---------
BLAKE              30 MANAGER   01-MAY-81
CLARK              10 MANAGER   09-JUN-81
JONES              20 MANAGER   02-APR-81

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Job, HireDate
  2   FROM Emp
  3*  WHERE Job LIKE 'MAN%'
SQL> /

ENAME          DEPTNO JOB        HIREDATE
---------- ---------- --------- ---------
BLAKE              30 MANAGER   01-MAY-81
CLARK              10 MANAGER   09-JUN-81
JONES              20 MANAGER   02-APR-81

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Job, HireDate
  2   FROM Emp
  3*  WHERE 'MAN%' LIKE Job
SQL> /

no rows selected

SQL> cl scr

SQL> SED
SP2-0042: unknown command "SED" - rest of line ignored.
SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Job, HireDate
  2*  FROM Emp
SQL> /

ENAME          DEPTNO JOB        HIREDATE
---------- ---------- --------- ---------
KING               10 PRESIDENT 17-NOV-81
BLAKE              30 MANAGER   01-MAY-81
CLARK              10 MANAGER   09-JUN-81
JONES              20 MANAGER   02-APR-81
MARTIN             30 SALESMAN  28-SEP-81
ALLEN              30 SALESMAN  20-FEB-81
TURNER             30 SALESMAN  08-SEP-81
```

```
JAMES              30 CLERK     03-DEC-81
WARD               30 SALESMAN  22-FEB-81
FORD               20 ANALYST   03-DEC-81
SMITH              20 CLERK     17-DEC-80
SCOTT              20 ANALYST   09-DEC-82
ADAMS              20 CLERK     12-JAN-83
MILLER             10 CLERK     23-JAN-82

14 rows selected.

SQL> SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3  WHERE HireDate = '03-DEC-81';

ENAME          DEPTNO JOB          HIREDATE
---------- ---------- --------- ---------
JAMES              30 CLERK     03-DEC-81
FORD               20 ANALYST   03-DEC-81

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE HireDate = '03-DEC-1981'
SQL> /

ENAME          DEPTNO JOB          HIREDATE
---------- ---------- --------- ---------
JAMES              30 CLERK     03-DEC-81
FORD               20 ANALYST   03-DEC-81

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE HireDate LIKE '03-DEC-81'
SQL> /

ENAME          DEPTNO JOB          HIREDATE
---------- ---------- --------- ---------
JAMES              30 CLERK     03-DEC-81
FORD               20 ANALYST   03-DEC-81

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE HireDate LIKE '03-DEC-1981'
SQL> /
```

```
no rows selected

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE HireDate LIKE '%-%-81'
SQL> /

ENAME           DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
KING            10 PRESIDENT 17-NOV-81
BLAKE           30 MANAGER   01-MAY-81
CLARK           10 MANAGER   09-JUN-81
JONES           20 MANAGER   02-APR-81
MARTIN          30 SALESMAN  28-SEP-81
ALLEN           30 SALESMAN  20-FEB-81
TURNER          30 SALESMAN  08-SEP-81
JAMES           30 CLERK     03-DEC-81
WARD            30 SALESMAN  22-FEB-81
FORD            20 ANALYST   03-DEC-81

10 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE HireDate LIKE '%-%-1981'
SQL> /

no rows selected

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE HireDate LIKE '%-DEC-%'
SQL> /

ENAME           DEPTNO JOB       HIREDATE
---------- ---------- --------- ---------
JAMES           30 CLERK     03-DEC-81
FORD            20 ANALYST   03-DEC-81
SMITH           20 CLERK     17-DEC-80
SCOTT           20 ANALYST   09-DEC-82
```

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```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Job, HireDate
  2  FROM Emp
  3* WHERE HireDate LIKE '%-DECEMBER-%'
SQL> /

no 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_BASE', 'CHENAI');

1 row created.

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

1 row created.

SQL> INSERT INTO Dept
  2  VALUES(70, 'COURIER\RACK', '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_BASE  CHENAI
        60 CARGO%DECK     MUMBAI
        70 COURIER\RACK   DELHI

7 rows selected.

SQL> SELECT Deptno, Dname, Loc
```

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```
  2  FROM Dept
  3  WHERE Dname LIKE '%_%';

    DEPTNO DNAME          LOC
---------- -------------- -------------
        10 ACCOUNTING     NEW YORK
        20 RESEARCH       DALLAS
        30 SALES          CHICAGO
        40 OPERATIONS     BOSTON
        50 SHIPPING_BASE  CHENAI
        60 CARGO%DECK     MUMBAI
        70 COURIER\RACK   DELHI

7 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, Dname, Loc
  2  FROM Dept
  3* WHERE Dname LIKE '%%%'
SQL> /

    DEPTNO DNAME          LOC
---------- -------------- -------------
        10 ACCOUNTING     NEW YORK
        20 RESEARCH       DALLAS
        30 SALES          CHICAGO
        40 OPERATIONS     BOSTON
        50 SHIPPING_BASE  CHENAI
        60 CARGO%DECK     MUMBAI
        70 COURIER\RACK   DELHI

7 rows selected.

SQL> cl scr

SQL> SELECT Deptno, Dname, Loc
  2  FROM Dept
  3  WHERE Dname LIKE '%\_%';

    DEPTNO DNAME          LOC
---------- -------------- -------------
        70 COURIER\RACK   DELHI

SQL> SELECT Deptno, Dname, Loc
  2  FROM Dept
  3  WHERE Dname LIKE '%\_%' ESCAPE '\';

    DEPTNO DNAME          LOC
---------- -------------- -------------
        50 SHIPPING_BASE  CHENAI
```

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```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, Dname, Loc
  2  FROM Dept
  3* WHERE Dname LIKE '%\%%' ESCAPE '\'
SQL> /

    DEPTNO DNAME          LOC
---------- -------------- -------------
        60 CARGO%DECK      MUMBAI

SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, Dname, Loc
  2  FROM Dept
  3* WHERE Dname LIKE '%@%%' ESCAPE '@'
SQL> /

    DEPTNO DNAME          LOC
---------- -------------- -------------
        60 CARGO%DECK      MUMBAI

SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, Dname, Loc
  2  FROM Dept
  3* WHERE Dname LIKE '%@_%' ESCAPE '@'
SQL> /

    DEPTNO DNAME          LOC
---------- -------------- -------------
        50 SHIPPING_BASE  CHENAI

SQL> cl scr

SQL> SELECT Ename, Deptno, Sal, Job, HireDate
  2  FROM Emp;

ENAME          DEPTNO        SAL JOB       HIREDATE
---------- ---------- ---------- --------- ---------
KING               10       5000 PRESIDENT 17-NOV-81
BLAKE              30       2850 MANAGER   01-MAY-81
CLARK              10       2450 MANAGER   09-JUN-81
JONES              20       2975 MANAGER   02-APR-81
MARTIN             30       1250 SALESMAN  28-SEP-81
ALLEN              30       1600 SALESMAN  20-FEB-81
TURNER             30       1500 SALESMAN  08-SEP-81
JAMES              30        950 CLERK     03-DEC-81
```

```
WARD              30        1250 SALESMAN  22-FEB-81
FORD              20        3000 ANALYST   03-DEC-81
SMITH             20         800 CLERK     17-DEC-80
SCOTT             20        3000 ANALYST   09-DEC-82
ADAMS             20        1100 CLERK     12-JAN-83
MILLER            10        1300 CLERK     23-JAN-82


14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, Job, HireDate
  2  FROM Emp
  3* ORDER BY Sal
SQL> /


ENAME            DEPTNO        SAL JOB       HIREDATE
---------- ---------- ---------- --------- ---------
SMITH             20         800 CLERK     17-DEC-80
JAMES             30         950 CLERK     03-DEC-81
ADAMS             20        1100 CLERK     12-JAN-83
WARD              30        1250 SALESMAN  22-FEB-81
MARTIN            30        1250 SALESMAN  28-SEP-81
MILLER            10        1300 CLERK     23-JAN-82
TURNER            30        1500 SALESMAN  08-SEP-81
ALLEN             30        1600 SALESMAN  20-FEB-81
CLARK             10        2450 MANAGER   09-JUN-81
BLAKE             30        2850 MANAGER   01-MAY-81
JONES             20        2975 MANAGER   02-APR-81
FORD              20        3000 ANALYST   03-DEC-81
SCOTT             20        3000 ANALYST   09-DEC-82
KING              10        5000 PRESIDENT 17-NOV-81


14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, Job, HireDate
  2  FROM Emp
  3* ORDER BY Sal DESC
SQL> /


ENAME            DEPTNO        SAL JOB       HIREDATE
---------- ---------- ---------- --------- ---------
KING              10        5000 PRESIDENT 17-NOV-81
SCOTT             20        3000 ANALYST   09-DEC-82
FORD              20        3000 ANALYST   03-DEC-81
JONES             20        2975 MANAGER   02-APR-81
BLAKE             30        2850 MANAGER   01-MAY-81
CLARK             10        2450 MANAGER   09-JUN-81
```

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....

```
ALLEN                30        1600 SALESMAN   20-FEB-81
TURNER               30        1500 SALESMAN   08-SEP-81
MILLER               10        1300 CLERK      23-JAN-82
WARD                 30        1250 SALESMAN   22-FEB-81
MARTIN               30        1250 SALESMAN   28-SEP-81
ADAMS                20        1100 CLERK      12-JAN-83
JAMES                30         950 CLERK      03-DEC-81
SMITH                20         800 CLERK      17-DEC-80

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Sal, Job, HireDate
  2   FROM Emp
  3*  ORDER BY Ename
SQL> /

ENAME           DEPTNO       SAL JOB         HIREDATE
---------- ---------- ---------- --------- ---------
ADAMS                20        1100 CLERK      12-JAN-83
ALLEN                30        1600 SALESMAN   20-FEB-81
BLAKE                30        2850 MANAGER    01-MAY-81
CLARK                10        2450 MANAGER    09-JUN-81
FORD                 20        3000 ANALYST    03-DEC-81
JAMES                30         950 CLERK      03-DEC-81
JONES                20        2975 MANAGER    02-APR-81
KING                 10        5000 PRESIDENT  17-NOV-81
MARTIN               30        1250 SALESMAN   28-SEP-81
MILLER               10        1300 CLERK      23-JAN-82
SCOTT                20        3000 ANALYST    09-DEC-82
SMITH                20         800 CLERK      17-DEC-80
TURNER               30        1500 SALESMAN   08-SEP-81
WARD                 30        1250 SALESMAN   22-FEB-81

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Sal, Job, HireDate
  2   FROM Emp
  3*  ORDER BY HireDate
SQL> /

ENAME           DEPTNO       SAL JOB         HIREDATE
---------- ---------- ---------- --------- ---------
SMITH                20         800 CLERK      17-DEC-80
ALLEN                30        1600 SALESMAN   20-FEB-81
WARD                 30        1250 SALESMAN   22-FEB-81
JONES                20        2975 MANAGER    02-APR-81
```

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```
BLAKE             30       2850 MANAGER   01-MAY-81
CLARK             10       2450 MANAGER   09-JUN-81
TURNER            30       1500 SALESMAN  08-SEP-81
MARTIN            30       1250 SALESMAN  28-SEP-81
KING              10       5000 PRESIDENT 17-NOV-81
JAMES             30        950 CLERK     03-DEC-81
FORD              20       3000 ANALYST   03-DEC-81
MILLER            10       1300 CLERK     23-JAN-82
SCOTT             20       3000 ANALYST   09-DEC-82
ADAMS             20       1100 CLERK     12-JAN-83

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Sal, Job, HireDate
  2   FROM Emp
  3*  ORDER BY Deptno
SQL> /

ENAME           DEPTNO        SAL JOB          HIREDATE
---------- ---------- ---------- ---------- ----------
KING              10       5000 PRESIDENT 17-NOV-81
CLARK             10       2450 MANAGER   09-JUN-81
MILLER            10       1300 CLERK     23-JAN-82
ADAMS             20       1100 CLERK     12-JAN-83
SCOTT             20       3000 ANALYST   09-DEC-82
SMITH             20        800 CLERK     17-DEC-80
FORD              20       3000 ANALYST   03-DEC-81
JONES             20       2975 MANAGER   02-APR-81
WARD              30       1250 SALESMAN  22-FEB-81
JAMES             30        950 CLERK     03-DEC-81
ALLEN             30       1600 SALESMAN  20-FEB-81
MARTIN            30       1250 SALESMAN  28-SEP-81
BLAKE             30       2850 MANAGER   01-MAY-81
TURNER            30       1500 SALESMAN  08-SEP-81

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Sal, Job, HireDate
  2   FROM Emp
  3*  ORDER BY Deptno, Sal
SQL> /

ENAME           DEPTNO        SAL JOB        HIREDATE
---------- ---------- ---------- --------- ---------
MILLER            10       1300 CLERK     23-JAN-82
CLARK             10       2450 MANAGER   09-JUN-81
```

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```
    KING                10        5000 PRESIDENT 17-NOV-81
    SMITH               20         800 CLERK     17-DEC-80
    ADAMS               20        1100 CLERK     12-JAN-83
    JONES               20        2975 MANAGER   02-APR-81
    SCOTT               20        3000 ANALYST   09-DEC-82
    FORD                20        3000 ANALYST   03-DEC-81
    JAMES               30         950 CLERK     03-DEC-81
    WARD                30        1250 SALESMAN  22-FEB-81
    MARTIN              30        1250 SALESMAN  28-SEP-81
    TURNER              30        1500 SALESMAN  08-SEP-81
    ALLEN               30        1600 SALESMAN  20-FEB-81
    BLAKE               30        2850 MANAGER   01-MAY-81

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Deptno, Sal, Job, HireDate
  2  FROM Emp
  3* ORDER BY Deptno, Sal DESC
SQL> /

ENAME          DEPTNO        SAL JOB       HIREDATE
---------- ---------- ---------- --------- ---------
KING               10       5000 PRESIDENT 17-NOV-81
CLARK              10       2450 MANAGER   09-JUN-81
MILLER             10       1300 CLERK     23-JAN-82
SCOTT              20       3000 ANALYST   09-DEC-82
FORD               20       3000 ANALYST   03-DEC-81
JONES              20       2975 MANAGER   02-APR-81
ADAMS              20       1100 CLERK     12-JAN-83
SMITH              20        800 CLERK     17-DEC-80
BLAKE              30       2850 MANAGER   01-MAY-81
ALLEN              30       1600 SALESMAN  20-FEB-81
TURNER             30       1500 SALESMAN  08-SEP-81
MARTIN             30       1250 SALESMAN  28-SEP-81
WARD               30       1250 SALESMAN  22-FEB-81
JAMES              30        950 CLERK     03-DEC-81

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Job, HireDate
  2  FROM Emp
  3* ORDER BY Deptno, Sal DESC
SQL> /

ENAME      JOB       HIREDATE
---------- --------- ---------
```

```
KING        PRESIDENT 17-NOV-81
CLARK       MANAGER   09-JUN-81
MILLER      CLERK     23-JAN-82
SCOTT       ANALYST   09-DEC-82
FORD        ANALYST   03-DEC-81
JONES       MANAGER   02-APR-81
ADAMS       CLERK     12-JAN-83
SMITH       CLERK     17-DEC-80
BLAKE       MANAGER   01-MAY-81
ALLEN       SALESMAN  20-FEB-81
TURNER      SALESMAN  08-SEP-81
MARTIN      SALESMAN  28-SEP-81
WARD        SALESMAN  22-FEB-81
JAMES       CLERK     03-DEC-81

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Job, HireDate, Deptno, Sal
  2   FROM Emp
  3*  ORDER BY 4
SQL> /

ENAME       JOB       HIREDATE      DEPTNO        SAL
----------  --------- ---------  ----------  ----------
KING        PRESIDENT 17-NOV-81       10       5000
CLARK       MANAGER   09-JUN-81       10       2450
MILLER      CLERK     23-JAN-82       10       1300
ADAMS       CLERK     12-JAN-83       20       1100
SCOTT       ANALYST   09-DEC-82       20       3000
SMITH       CLERK     17-DEC-80       20        800
FORD        ANALYST   03-DEC-81       20       3000
JONES       MANAGER   02-APR-81       20       2975
WARD        SALESMAN  22-FEB-81       30       1250
JAMES       CLERK     03-DEC-81       30        950
ALLEN       SALESMAN  20-FEB-81       30       1600
MARTIN      SALESMAN  28-SEP-81       30       1250
BLAKE       MANAGER   01-MAY-81       30       2850
TURNER      SALESMAN  08-SEP-81       30       1500

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Job, HireDate, Deptno, Sal
  2   FROM Emp
  3*  ORDER BY 6
SQL> /
ORDER BY 6
```

```
        *
ERROR at line 3:
ORA-01785: ORDER BY item must be the number of a SELECT-list expression


SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Job, HireDate, Deptno, Sal
  2  FROM Emp
  3* ORDER BY 4, 5 DESC, 3
SQL> /

ENAME      JOB       HIREDATE   DEPTNO        SAL
---------- --------- --------- ---------- ----------
KING       PRESIDENT 17-NOV-81         10       5000
CLARK      MANAGER   09-JUN-81         10       2450
MILLER     CLERK     23-JAN-82         10       1300
FORD       ANALYST   03-DEC-81         20       3000
SCOTT      ANALYST   09-DEC-82         20       3000
JONES      MANAGER   02-APR-81         20       2975
ADAMS      CLERK     12-JAN-83         20       1100
SMITH      CLERK     17-DEC-80         20        800
BLAKE      MANAGER   01-MAY-81         30       2850
ALLEN      SALESMAN  20-FEB-81         30       1600
TURNER     SALESMAN  08-SEP-81         30       1500
WARD       SALESMAN  22-FEB-81         30       1250
MARTIN     SALESMAN  28-SEP-81         30       1250
JAMES      CLERK     03-DEC-81         30        950

14 rows selected.

SQL> SPOOL OFF
```

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