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

- SELECT Ename, Deptno, Job FROM Emp
- WHERE Deptno = 30

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

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```
TURNER
                  30 SALESMAN
                 30 CLERK
JAMES
WARD
                 30 SALESMAN
6 rows selected.
SOL> 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
               30 CLERK
JAMES
SOL> 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
    WHERE Job = 'SALESMAN';
             DEPTNO JOB
_____ ___
MARTIN
                 30 SALESMAN
                30 SALESMAN
ALLEN
                 30 SALESMAN
TURNER
                 30 SALESMAN
WARD
```

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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'; DEPTNO JOB 30 MANAGER BLAKE 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> / DEPTNO JOB 30 SALESMAN MARTIN 30 SALESMAN ALLEN TURNER 30 SALESMAN WARD 30 SALESMAN SOL> ED Wrote file afiedt.buf 1 SELECT Ename, Deptno, Job 2 FROM Emp 3* WHERE NOt (Deptno = 30 AND Job = 'SALESMAN') SOL> / DEPTNO JOB ENAME KING 10 PRESIDENT 30 MANAGER BLAKE 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 10 SALESMAN RUPESH

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12 rows selected.

SQL> ROLLBACK;

Rollback complete.

SOL> 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

- SELECT Ename, Deptno, Sal
- 2 FROM Emp
- 3* WHERE Sal > 1600

SQL> /

DEPTNO -----

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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

SOL> ED

Wrote file afiedt.buf

- 1 SELECT Ename, Deptho, 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

Wrote file afiedt.buf

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

SOL> /

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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.bu

- 1 SELECT Ename, Deptno, Sal, Job
- 2 FROM Emp
- 3* WHERE Job

SQL> /

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

SQL> ED

Wrote file afiedt.buf

- SELECT Ename, Deptno, Sal, Job
- 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

SOL> 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.bu

- 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

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

SQL> /

ENAME DEPTNO SAL HIREDATE

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3000 03-DEC-81

30 950 03-DEC-81 JAMES 20

SQL> cl scr

FORD

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	1 (
MILLER	10	1300	1

14 rows selected.

SQL> SELECT Ename, Deptno, Sal

- 2 FROM Emp
- 3 WHERE Comm = NULL;

no rows selected

SQL> ED

Wrote file afiedt.buf

- SELECT Ename, Deptno, Sal, Comm
- 2 FROM Emp
- 3* WHERE Comm <> NULL

SQL> /

no rows selected

SQL> cl scr

SQL> SELECT

- Ename,
- 3 Deptno,
- 4 Job,
- 5 Sal
- FROM Emp

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```
7
   WHERE
 8
    Deptno = 10 OR
   Deptno = 20 AND
 9
 10 Job = 'SALESMAN' AND
 11 Sal > 2500 OR
12 Sal < 1500;
ENAME
      DEPTNO JOB
______
               10 PRESIDENT 5000
KING
                10 MANAGER
                                2450
CLARK
                                1250
MARTIN
               30 SALESMAN
                30 CLERK
                                 950
JAMES
                                1250
WARD
                30 SALESMAN
SMITH
               20 CLERK
                                 800
               20 CLERK
                                1100
ADAMS
               10 CLERK
                                1300
MILLER
8 rows selected.
SQL> SELECT
 2 Ename,
 3 Deptno,
 4 Job,
    Sal
  5
  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
                10 PRESIDENT
10 MANAGER
KING
                                5000
                                2450
CLARK
MILLER
                10 CLERK
                                 1300
SQL> cl scr
SQL> SELECT
 2 Department ID, Job ID, SUM(Salary), AVG(Salary)
    FROM Employees
   WHERE
  4
  6
      (DEPARTMENT ID = 20 AND (
  7
                    JOB ID = 'MK MAN' OR
                     JOB ID = 'MK REP' OR
                     JOB ID = 'PU MAN' OR
                     JOB ID = 'PU CLERK' OR
 10
 11
                     JOB ID = 'HR REP' OR
                     JOB ID = 'SH CLERK' OR
 12
 13
                     JOB ID = 'IT PROG' OR
```

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```
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
                         JOB ID = 'MK REP' OR
22
23
                         JOB ID = 'PU MAN' OR
                         JOB_ID = 'PU_CLERK' OR
24
25
                         JOB ID = 'HR REP' OR
26
                         JOB ID = 'SH CLERK' OR
27
                         JOB ID = 'IT PROG' OR
                         JOB ID = 'SA REP'
28
29
                         ) AND
30
31
                         SALARY >= 5000 AND SALARY
32
                         )
33
     ) OR
34
     (DEPARTMENT ID = 40)
                           AND (
35
                         JOB ID = 'MK MAN' OR
36
                         JOB ID = 'MK REP' OR
                         JOB ID = 'PU MAN' OR
37
                         JOB ID = 'PU CLERK' OR
38
                         JOB ID = 'HR REP' OR
39
                         JOB_ID = 'SH_CLERK' OR
JOB_ID = 'IT_PROG' OR
40
41
                         JOB_ID = 'SA REP'
42
                         ) AND
43
44
45
                         SALARY >= 5000 AND SALARY <= 30000
46
47
     ) OR
48
     (DEPARTMENT
                            AND (
49
                         JOB ID = 'MK MAN' OR
50
                         JOB ID = 'MK REP' OR
51
                         JOB ID = 'PU MAN' OR
                         JOB ID = 'PU CLERK' OR
52
                         JOB ID = 'HR REP' OR
53
                         JOB ID = 'SH CLERK' OR
54
                         JOB ID = 'IT PROG' OR
55
56
                         JOB ID = 'SA REP'
57
                         ) AND
58
                         (
59
                         SALARY >= 5000 AND SALARY <= 30000
60
61
     ) OR
     (DEPARTMENT ID = 60 AND (
62
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
                          JOB ID = 'PU CLERK' OR
 80
                          JOB ID = 'HR REP' OR
 81
                          JOB ID = 'SH CLERK' OR
 82
 83
                          JOB ID = 'IT PROG' OR
                          JOB_ID = 'SA REP'
 84
 85
                          ) AND
 86
                          SALARY >= 5000 AND SALARY
 87
 88
                          )
 89
      ) OR
       (DEPARTMENT ID = 20 AND (
 90
                          JOB ID = 'MK MAN' OR
 91
                          JOB_ID = 'MK_REP' OR
JOB_ID = 'PU_MAN' OR
 92
 93
                          JOB_ID = 'PU CLERK' OR
 94
                          JOB ID = 'HR_REP' OR
 95
                          JOB ID = 'SH CLERK' OR
 96
                          JOB ID = 'IT PROG' OR
 97
                          JOB ID = 'SA_REP'
 98
 99
                          ) AND
100
101
                          SALARY >= 5000 AND SALARY <= 30000
102
103
      ) OR
104
       (DEPARTMENT ID = 20)
                            AND (
                          JOB ID = 'MK MAN' OR
105
                          JOB ID = 'MK REP' OR
106
                          JOB ID = 'PU MAN' OR
107
                          JOB ID = 'PU CLERK' OR
108
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
      )
```

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```
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)
     FROM Employees
     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
                         JOB ID = 'PU CLERK' OR
 10
                         JOB ID = 'HR REP' OR
 11
                         JOB_ID = 'SH_CLERK' OR
 12
 13
                         JOB ID = 'IT PROG' OR
                         JOB ID = 'SA REP'
 14
 15
                         ) AND
 16
                          (
                         SALARY >= 5000 AND SALARY <= 30000
 17
 18
 19
      ) OR
      (DEPARTMENT_ID = 30 AND (

JOB_ID = 'MK_MAN' OR
 20
 21
                         JOB ID = 'MK REP' OR
 22
                         JOB ID = 'PU MAN' OR
 23
                         JOB ID = 'PU CLERK' OR
 24
 25
                          JOB ID = 'HR REP' OR
                         JOB ID = 'SH CLERK' OR
 26
                          JOB ID = 'IT PROG' OR
 27
                         JOB ID = 'SA REP'
 28
 29
                         ) AND
 30
                          (
 31
                         SALARY >= 5000 AND SALARY <= 30000
 32
 33
      ) OR
      (DEPARTMENT ID = 40 AND (
 34
 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
                        JOB ID = 'MK REP' OR
50
51
                        JOB ID = 'PU MAN' OR
                        JOB ID = 'PU CLERK' OR
52
                        JOB ID = 'HR REP' OR
53
                        JOB ID = 'SH CLERK' OR
54
                        JOB ID = 'IT PROG' OR
55
                        JOB ID = 'SA REP'
56
57
                        ) AND
58
                        SALARY >= 5000 AND SALARY <= 30000
59
60
61
     ) OR
     (DEPARTMENT ID = 60
62
                          AND (
                        JOB ID = 'MK MAN' OR
63
64
                        JOB ID = 'MK REP' OR
65
                        JOB ID = 'PU MAN' OR
                        JOB ID = 'PU CLERK' OR
66
67
                        JOB ID = 'HR REP' OR
                        JOB ID = 'SH CLERK' OR
68
                        JOB ID = 'IT PROG' OR
69
                        JOB ID = 'SA REP'
70
71
                        ) AND
72
                        (
73
                                   5000 AND SALARY <= 30000
                        SALARY
74
75
     ) OR
                           AND (
76
     (DEPARTMENT ID = 80
77
                        JOB ID = 'MK MAN' OR
78
                        JOB ID = 'MK REP' OR
                        JOB_ID = 'PU_MAN' OR
79
80
                        JOB ID = 'PU CLERK' OR
81
                        JOB_ID = 'HR_REP' OR
82
                        JOB ID = 'SH CLERK' OR
                        JOB ID = 'IT PROG' OR
83
84
                        JOB ID = 'SA REP'
85
                        ) AND
86
87
                        SALARY >= 5000 AND SALARY <= 30000
88
89
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
```

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```
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
                       JOB ID = 'MK REP' OR
106
                       JOB ID = 'PU MAN' OR
107
                       JOB_ID = 'PU_CLERK' OR
108
                       JOB ID = 'HR REP' OR
109
                       JOB ID = 'SH CLERK' OR
110
111
                       JOB ID = 'IT PROG' OR
                       JOB ID = 'SA REP'
112
                       ) AND
113
114
                       SALARY >= 5000 AND SALARY <=
115
116
117
     )
118
119
    GROUP BY Department ID, Job ID;
DEPARTMENT ID JOB ID SUM(SALARY) AVG(SALARY)
-----------
          80 SA REP
                           243500 8396.55172
                            13000
          20 MK MAN
                                        13000
                             15000
6000
          60 IT PROG
                                          7500
          20 MK REP
                                          6000
                               6500
          40 HR REP
                                          6500
                             11000
          30 PU MAN
                                         11000
6 rows selected.
SQL> SELECT
 2 Department_ID, Job_ID, SUM(Salary), AVG(Salary)
 3 FROM Employees
  4
    WHERE
  5
       (DEPARTMENT ID = 20 OR
  6
        \overline{DEPARTMENT} ID = 30 OR
  7
        DEPARTMENT ID = 40 OR
 8
      9
 10
        DEPARTMENT_ID = 60 OR
11
        DEPARTMENT ID = 80
 12
        ) AND
 13
     (JOB ID = 'MK MAN' OR
      JOB ID = 'MK REP' OR
      JOB ID = 'PU MAN' OR
 15
      JOB ID = 'PU CLERK' OR
 16
      JOB ID = 'HR REP' OR
 17
 18
      JOB ID = 'SH CLERK' OR
```

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```
19
       JOB ID = 'IT PROG' OR
       JOB ID = 'SA REP'
 20
 21
       ) AND
 22
     SALARY >= 5000 AND SALARY <= 30000
 23
 24
    )
 25
     )
 26 GROUP BY Department ID, Job ID;
DEPARTMENT_ID JOB_ID SUM(SALARY) AVG(SALARY)
                           243500 8396.55172
           80 SA REP
                              13000 13000
           20 MK MAN
           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
    WHERE
  5
    (DEPARTMENT ID = 20
  6
       \overline{DEPARTMENT} \overline{ID} = 30 OR
  7
        DEPARTMENT_ID = 40
DEPARTMENT ID = 50
        DEPARTMENT ID = 60 OR
DEPARTMENT ID = 80
 10
 11
 12
         ) AND
 13
     (JOB_ID = 'MK_MAN' OR
     JOB_ID = 'MK_KEL

TOP TO = 'PU_MAN' OR
 14
      JOB_ID = 'PU_MAN' OR
JOB_ID = 'PU_CLERK' OR
JOB_ID = 'HR_REP' OR
 15
 16
 17
       JOB ID = 'SH CLERK' OR
 18
      JOB_ID = 'IT_PROG' OR
 19
 20
       JOB ID = 'SA REP'
 21
     ) AND
 22
 23
      SALARY >= 5000 AND SALARY <= 30000
 24
 25
     )
     GROUP BY Department ID, Job ID;
DEPARTMENT ID JOB ID
                         SUM(SALARY) AVG(SALARY)
 __________
```

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```
243500 8396.55172
13000 13000
15000 7500
6000
  .....
         80 SA REP
         20 MK MAN
         60 IT_PROG
         20 MK REP
         40 HR_REP 6500 6500
30 PU_MAN 11000 11000
                          6500
6 rows selected.
Execution Plan
Plan hash value: 1192169904
| Id | Operation | Name | Rows | Bytes | Cost (%CPU)|
Time |
| 0 | SELECT STATEMENT |
00:00:01 |
| 1 | HASH GROUP BY |
00:00:01
|* 2 | TABLE ACCESS FULL| EMPLOYEES |
                                                  3 (0)|
                                            784 |
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
   Department_ID, Job_ID, SUM(Salary), AVG(Salary)
   FROM Employees
    WHERE
 5
     (DEPARTMENT ID = 20 AND (
 6
 7
                    JOB ID = 'MK MAN' OR
                    JOB ID = 'MK REP' OR
 8
 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
                         JOB ID = 'SA REP'
14
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
                         JOB ID = 'PU CLERK' OR
24
                         JOB ID = 'HR REP' OR
25
                         JOB ID = 'SH CLERK' OR
26
27
                         JOB ID = 'IT PROG' OR
                         JOB_ID = 'SA REP'
28
29
                         ) AND
30
                         SALARY >= 5000 AND SALARY
31
32
                         )
33
     ) OR
34
     (DEPARTMENT ID = 40 AND (
                         JOB ID = 'MK MAN' OR
35
                         JOB_ID = 'MK_REP' OR
JOB_ID = 'PU_MAN' OR
36
37
                         JOB_ID = 'PU CLERK' OR
38
                         JOB ID = 'HR REP' OR
39
                         JOB ID = 'SH CLERK' OR
40
                         JOB ID = 'IT PROG' OR
41
                         JOB ID = 'SA_REP'
42
43
                         ) AND
44
45
                         SALARY >= 5000 AND SALARY <= 30000
46
47
     ) OR (
48
     (DEPARTMENT ID = 50)
                           AND (
                         JOB ID = 'MK MAN' OR
49
                         JOB ID = 'MK REP' OR
50
                         JOB ID = 'PU MAN' OR
51
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
     ) OR
```

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```
62
       (DEPARTMENT ID = 60)
                            AND (
 63
                          JOB ID = 'MK MAN' OR
                          JOB ID = 'MK REP' OR
 64
 65
                          JOB ID = 'PU MAN' OR
                          JOB ID = 'PU CLERK' OR
 66
 67
                          JOB ID = 'HR REP' OR
                          JOB ID = 'SH CLERK' OR
 68
                          JOB ID = 'IT PROG' OR
 69
 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
                          JOB ID = 'MK REP' OR
 78
 79
                          JOB ID = 'PU MAN' OR
 80
                          JOB ID = 'PU CLERK' OR
 81
                          JOB ID = 'HR REP' OR
                          JOB ID = 'SH CLERK' OR
 82
                          JOB ID = 'IT PROG' OR
 83
                          JOB ID = 'SA REP'
 84
 85
                          ) AND
 86
                          (
 87
                          SALARY >= 5000 AND SALARY <= 30000
 88
 89
      ) OR
 90
       (DEPARTMENT ID = 20
                            AND (
                          JOB_ID = 'MK MAN' OR
 91
                          JOB ID = 'MK REP' OR
 92
 93
                          JOB ID = 'PU MAN' OR
                          JOB ID = 'PU_CLERK' OR
 94
                          JOB ID = 'HR REP' OR
 95
 96
                          JOB_ID = 'SH_CLERK' OR
 97
                          JOB_ID = 'IT_PROG' OR
 98
                          JOB ID = 'SA REP'
 99
                          ) AND
100
                          SALARY >= 5000 AND SALARY <= 30000
101
102
103
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
                          JOB ID = 'SA REP'
112
113
                          ) AND
```

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```
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)
-----
                      -----
                          243500 8396.55172
          80 SA REP
                          13000 13000
15000 7500
          20 MK MAN
          60 IT PROG
                           6000
6500
          20 MK REP
                                        6000
          40 HR REP
                                        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 |
                                                       3 (0)|
        TABLE ACCESS FULL | EMPLOYEES |
                                       49 | 784 |
| * 2 |
00:00:01
Predicate Information (identified by operation id):
     filter("SALARY">=5000 AND ("JOB_ID"='HR_REP' OR
            "JOB_ID"='IT_PROG' OR "JOB ID"='MK MAN' OR
    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

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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.bu

- 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

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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

SOL> 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> /

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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.

SOL> 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

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JONES 20 MANAGER 2975 FORD 20 ANALYST 3000

 FORD
 20 ANALYST
 3000

 SMITH
 20 CLERK
 800

 SCOTT
 20 ANALYST
 3000

 ADAMS
 20 CLERK
 1100

SOL> 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

SOL> ED

Wrote file afiedt.buf

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

ENAME DEPTNO JOB SAL

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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.bu

- 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;

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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	

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SQL> ED Wrote file afiedt.buf

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

SOL> /

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,

- 2 FROM Emp
- 3 WHERE Ename =

no rows selected

SOL> ED

Wrote file afiedt.buf

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

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

SQL> ED

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1 SELECT Ename, Deptno, Job, HireDate

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2 FROM Emp 3* WHERE Ename LIKE 'S%T'

SQL> /

DEPTNO JOB HIREDATE ENAME 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

SQL> /

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

Wrote file afiedt.buf

- SELECT Ename, Deptno, Job, HireDate
- FROM Emp
- 3* WHERE Ename LIKE '%A%A%'

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

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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.

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SQL> cl scr

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

DEPTNO	JOB	HIREDATE
10	PRESIDENT	17-NOV-81
30	MANAGER	01-MAY-81
10	MANAGER	09-JUN-81
20	MANAGER	02-APR-81
30	SALESMAN	28-SEP-81
30	SALESMAN	20-FEB-81
30	SALESMAN	08-SEP-81
30	CLERK	03-DEC-81
30	SALESMAN	22-FEB-81
20	ANALYST	03-DEC-81
20	CLERK	17-DEC-80
20	ANALYST	09-DEC-82
20	CLERK	12-JAN-83
10	CLERK	23-JAN-82
	10 30 10 20 30 30 30 30 30 20 20 20	10 PRESIDENT 30 MANAGER 10 MANAGER 20 MANAGER 30 SALESMAN 30 SALESMAN 30 SALESMAN 30 CLERK 30 SALESMAN 20 ANALYST 20 CLERK 20 ANALYST 20 CLERK

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

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```
SQL> /
ENAME
            DEPTNO JOB HIREDATE
                30 MANAGER 01-MAY-81
                10 MANAGER 09-JUN-81
CLARK
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> /
             DEPTNO JOB
ENAME
                            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
   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
                30 SALESMAN 28-SEP-81
MARTIN
                 30 SALESMAN
ALLEN
                             20-FEB-81
TURNER
                 30 SALESMAN 08-SEP-81
```

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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

SOL> 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

Wrote file afiedt.buf

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

SOL> /

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```
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
                  10 PRESIDENT 17-NOV-81
KING
BLAKE
                  30 MANAGER 01-MAY-81
CLARK
                  10 MANAGER 09-JUN-81
JONES
                  20 MANAGER
                               02-APR-81
MARTIN
                  30 SALESMAN 28-SEP-81
                  30 SALESMAN 20-FEB-81
ALLEN
                  30 SALESMAN 08-SEP-81
TURNER
                  30 CLERK
                               03-DEC-81
JAMES
                  30 SALESMAN 22-FEB-81
WARD
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
    SELECT Ename, Deptno, Job, HireDate
   FROM Emp
 3* WHERE HireDate LIKE '%-DEC-%'
SQL>
```

ENAME	DEPTNO	JOB	HIREDATE
TAME C	20	CI EDI	02 DEG 01
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-%'
SOL> /
no rows selected
SQL> cl scr
SQL> SELECT * FROM Dept;
   DEPTNO DNAME
                         LOC
        10 ACCOUNTING
                          NEW YORK
                         DALLAS
        20 RESEARCH
        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
        10 ACCOUNTING NEW YORK
20 RESEARCH DALLAS
        SU SALES CHICAGO
40 OPERATIONS BOSTON
50 SHIPPING
        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
       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 '%%%'
SOL> /
   DEPTNO DNAME LOC
       10 ACCOUNTING NEW YORK
20 RESEARCH DALLAS
30 SALES CHICAGO
        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
   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	CYDCU&DECK	MIIMDAT

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Deptno, Dname, Loc
- 2 FROM Dept
- 3* WHERE Dname LIKE '%0%%' ESCAPE '0' SQL> /

DEPTNO	DNAME	LOC
60	CARGO%DECK	MUMBAT

SQL> ED

Wrote file afiedt.buf

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

DEPTNO	DNAME		LOC
5.0	CHIDDING	BACE	CHENIXI

SQL> cl scr

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

ENAME	DEPTNO	SAL	JOB	HIREDATE
ETNC	10	E000	DDECIDENE	17 NOV 01
KING			PRESIDENT	
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

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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

- SELECT Ename, Deptno, Sal, Job, HireDate
- 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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800 CLERK 17-DEC-80

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

14 rows selected.

SQL> ED

SMTTH

Wrote file afiedt.buf

1 SELECT Ename, Deptno, Sal, Job, HireDate

20

- 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

SOT>

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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30	2850	MANAGER	01-MAY-81
10	2450	MANAGER	09-JUN-81
30	1500	SALESMAN	08-SEP-81
30	1250	SALESMAN	28-SEP-81
10	5000	PRESIDENT	17-NOV-81
30	950	CLERK	03-DEC-81
20	3000	ANALYST	03-DEC-81
10	1300	CLERK	23-JAN-82
20	3000	ANALYST	09-DEC-82
20	1100	CLERK	12-JAN-83
	10 30 30 10 30 20 10	10 2450 30 1500 30 1250 10 5000 30 950 20 3000 10 1300 20 3000	10 2450 MANAGER 30 1500 SALESMAN 30 1250 SALESMAN 10 5000 PRESIDENT 30 950 CLERK 20 3000 ANALYST 10 1300 CLERK 20 3000 ANALYST

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

- SELECT Ename, Job, HireDate
- 2 FROM Emp
- 3* ORDER BY Deptno, Sal DESC

SQL> /

JOB HIREDATE

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

14 rows selected.

SQL> ED

JAMES

Wrote file afiedt.buf

1 SELECT Ename, Job, HireDate, Deptno, Sal

CLERK 03-DEC-81

- 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

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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	DEPTN	O SAL
KING	PRESIDENT	17-NOV-81	1	0 5000<
CLARK	MANAGER	09-JUN-81	1	0 2450
MILLER	CLERK	23-JAN-82	1	0 1300
FORD	ANALYST	03-DEC-81	2	0 3000
SCOTT	ANALYST	09-DEC-82	2	0 3000
JONES	MANAGER	02-APR-81	2	0 2975
ADAMS	CLERK	12-JAN-83	2	0 1100
SMITH	CLERK	17-DEC-80	2	0 800
BLAKE	MANAGER	01-MAY-81	3	0 2850
ALLEN	SALESMAN	20-FEB-81	3	0 1600
TURNER	SALESMAN	08-SEP-81	3	0 1500
WARD	SALESMAN	22-FEB-81	3	0 1250
MARTIN	SALESMAN	28-SEP-81	3	0 1250
JAMES	CLERK	03-DEC-81	3	0 950

14 rows selected.

SQL> SPOOL OFF

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