.....

SQL> cl scr

SQL> SELECT Deptno, MAX(Sal)

- 2 FROM Emp
- 3 GROUP BY Deptno;

MAX(SAL)	DEPTNO
2850	30
	20 10
2850 3000 5000	20

SQL> SELECT Ename, Deptno, Job, Sal

- 2 FROM Emp
- 3 WHERE Sal IN(2850, 3000, 5000);

ENAME	DEPTNO	JOB	SAL
KING	10	PRESIDENT	5000
BLAKE	30	MANAGER	2850
FORD	20	ANALYST	3000
SCOTT	20	ANALYST	3000

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Ename, Deptno, Job, Sal
- 2 FROM Emp
- 3* WHERE Sal < 2850 OR Sal < 3000 OR Sal < 5000 SQL> /

ENAME	DEPTNO	JOB	SAL
)	
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

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.....

13 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Ename, Deptno, Job, Sal
- 2 FROM Emp
- 3* WHERE Sal < 5000

SQL> /

ENAME	DEPTNO	JOB	SAL
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

13 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Ename, Deptno, Job, Sal
- 2 FROM Emp
- 3* WHERE Sal <ANY(2850, 3000, 5000)

SOL> /

ENAME	DEPTNO	JOB	SAL
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

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```
.....
WARD
                 30 SALESMAN
                                  1250
FORD
                 20 ANALYST
                                  3000
SMITH
                 20 CLERK
                                  800
SCOTT
                 20 ANALYST
                                  3000
ADAMS
                 20 CLERK
                                  1100
MILLER
                 10 CLERK
                                  1300
13 rows selected.
SOL> cl scr
SOL> ED
Wrote file afiedt.buf
 1 SELECT Ename, Deptno, Job, Sal
 2 FROM Emp
 3 WHERE Sal <ANY
  4
    (
 5
   SELECT MIN(Sal)
 6 FROM Emp
  7
    GROUP BY Deptno
 8*
SQL> /
             DEPTNO JOB
                                   SAL
ENAME
                 30 SALESMAN
                                  1250
MARTIN
                 30 CLERK
                                   950
JAMES
WARD
                 30 SALESMAN
                                  1250
SMITH
                 20 CLERK
                                   800
                20 CLERK
ADAMS
                                  1100
SQL> SELECT MIN(Sal)
  2 FROM Emp
  3 GROUP BY Deptno;
 MIN(SAL)
      950
      800
     1300
SQL> ED
Wrote file afiedt.buf
    SELECT Ename, Deptno, Job, Sal
```

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```
.....
 2 FROM Emp
 3 WHERE Sal <
 4
      (
 5
      SELECT MAX(MIN(Sal))
 6
      FROM Emp
 7
      GROUP BY Deptno
 8*
SQL> /
      DEPTNO JOB
                                SAL
         _____
               30 SALESMAN
                              1250
MARTIN
              30 CLERK
                               950
JAMES
WARD
               30 SALESMAN
                              1250
              20 CLERK
                               800
SMITH
ADAMS
              20 CLERK
                               1100
SQL> SELECT Empno, Ename, Job
 2 FROM Emp
 3 WHERE Sal < ANY
 4
   (
 5
   SELECT Sal
 6
   FROM Emp
   WHERE Job = 'CLERK'
    );
    EMPNO ENAME
                  JOB
 -----
                  CLERK
     7369 SMITH
                  CLERK
     7900 JAMES
     7876 ADAMS
                  CLERK
     7521 WARD
                  SALESMAN
     7654 MARTIN
                  SALESMAN
SQL> ED
Wrote file afiedt.buf
 1 SELECT Empno, Ename, Job, Sal
   FROM Emp
    WHERE Sal < ANY
    SELECT Sal
    FROM Emp
    WHERE Job = 'CLERK'
 8*
SOL> /
```

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•

```
JOB
    EMPNO ENAME
                                   SAL
----- -----
     7369 SMITH
                  CLERK
     7900 JAMES
                  CLERK
                                  950
     7876 ADAMS
                  CLERK
                                 1100
     7521 WARD
                  SALESMAN
                                 1250
     7654 MARTIN SALESMAN
                                 1250
SOL> ED
Wrote file afiedt.buf
 1 SELECT Empno, Ename, Job, Sal
  2 FROM Emp
 3 WHERE Sal <
  4 (
 5 SELECT MAX(Sal)
  6
    FROM Emp
 7 WHERE Job = 'CLERK'
 8* )
SQL> /
    EMPNO ENAME
                   JOB
                                   SAL
     7654 MARTIN
                   SALESMAN
                                 1250
     7900 JAMES
                   CLERK +
                                   950
     7521 WARD
                   SALESMAN
                                  1250
     7369 SMITH
                   CLERK
                                   800
                   CLERK
     7876 ADAMS
                                  1100
SQL> cl scr
SQL> SELECT Empno, Ename, Job
  2 FROM Emp
  3 WHERE Sal <ANY
   SELECT Sal
 5
  6
    FROM Emp
    WHERE Deptno = 20
 8
    )ED
 9
SQL> ED
Wrote file afiedt.buf
    SELECT Empno, Ename, Job
  2 FROM Emp
```

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```
.....
   WHERE Sal <ANY
  4
    (
 5
     SELECT Sal
  6
    FROM Emp
     WHERE Deptno = 20
  7
 8*
SQL> /
                    JOB
    EMPNO ENAME
  _____
     7369 SMITH
                    CLERK
     7900 JAMES
                    CLERK
     7876 ADAMS
                    CLERK
     7521 WARD
                    SALESMAN
     7654 MARTIN
                    SALESMAN
     7934 MILLER
                    CLERK
     7844 TURNER
                    SALESMAN
     7499 ALLEN
                    SALESMAN
     7782 CLARK
                    MANAGER
     7698 BLAKE
                    MANAGER
     7566 JONES
                    MANAGER
11 rows selected.
SQL> ED
Wrote file afiedt.buf
 1 SELECT Empno, Ename, Job,
  2
   FROM Emp
  3
    WHERE Sal <ANY
  4
  5
     SELECT Sal
  6
     FROM Emp
     WHERE Deptno = 20
  7
 8*
SQL> /
                    JOB
    EMPNO ENAME
                                    SAL
     7369 SMITH
                    CLERK
                                   800
     7900 JAMES
                    CLERK
                                   950
     7876 ADAMS
                   CLERK
                                   1100
     7521 WARD
                    SALESMAN
                                   1250
     7654 MARTIN
                    SALESMAN
                                   1250
     7934 MILLER
                    CLERK
                                   1300
     7844 TURNER
                    SALESMAN
                                   1500
```

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.....

 7499 ALLEN
 SALESMAN
 1600

 7782 CLARK
 MANAGER
 2450

 7698 BLAKE
 MANAGER
 2850

 7566 JONES
 MANAGER
 2975

11 rows selected.

SQL> SELECT Sal

2 FROM Emp

3 WHERE Deptno = 20;

SAL ------2975 3000 800 3000 1100

SQL> ED

Wrote file afiedt.buf

EMP:	NO ENAMI	јов јов		SAL
76	 98 BLAKI	E MANA	GER 2	850
77	82 CLARI	K MANA	AGER 2	450
75	66 JONES	S MANA	AGER 2	975
76	54 MART	IN SALE	SMAN 1	250
74	99 ALLEI	N SALE	SMAN 1	600
78	44 TURNI	ER SALE	SMAN 1	500
79	00 JAMES	S CLER	RΚ	950
75	21 WARD	SALE	SMAN 1	250
73	69 SMITE	H CLER	RΚ	800
78	76 ADAMS	S CLER	RK 1	100
79	34 MILLI	ER CLER	RK 1	300

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..... 11 rows selected. SOL> ED Wrote file afiedt.buf SELECT Empno, Ename, Job, Sal 2 FROM Emp 3 WHERE Sal <ANY 4 (5 SELECT Sal б FROM Emp WHERE Deptno = 7 8 9 SELECT Deptno 10 FROM Dept WHERE Dname = 'RESEARCH' 11 12 13*) SQL> / JOB EMPNO ENAME 2850 7698 BLAKE MANAGER 7782 CLARK MANAGER 2450 7566 JONES MANAGER 2975 7654 MARTIN 1250 SALESMAN 7499 ALLEN SALESMAN 1600 7844 TURNER SALESMAN 1500 7900 JAMES CLERK 950 7521 WARD SALESMAN 1250 7369 SMITH CLERK 800 7876 ADAMS CLERK 1100 7934 MILLER CLERK 1300 11 rows selected. SQL> ED Wrote file afiedt.buf SELECT Empno, Ename, Job, Sal FROM Emp

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WHERE Sal <

FROM Emp

6

SELECT MAX(Sal)

WHERE Deptno =

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```
.....
 9
         SELECT Deptno
10
         FROM Dept
11
         WHERE Dname = 'RESEARCH'
12
13* )
SQL> /
    EMPNO ENAME
                  JOB
                                SAL
 _____
                 -----
    7698 BLAKE
                 MANAGER
                               2850
    7782 CLARK
                 MANAGER
                               2450
    7566 JONES
                 MANAGER
                               2975
                 SALESMAN
     7654 MARTIN
                               1250
    7499 ALLEN
                SALESMAN
                               1600
    7844 TURNER
                 SALESMAN
                               1500
    7900 JAMES
                 CLERK
                                950
    7521 WARD
                 SALESMAN
                               1250
    7369 SMITH
                 CLERK
                                800
    7876 ADAMS
                 CLERK
                               1100
    7934 MILLER
                               1300
                  CLERK
11 rows selected.
SQL> SELECT Empno, Ename, Job, Sal
 2 FROM Emp
 3 WHERE Sal < ANY
 5
   SELECT Sal
 6
   FROM Emp
 7
   WHERE Deptno = 20
 8
   )
    AND Job <>
    EMPNO ENAME
                  JOB
                                SAL
     7654 MARTIN
                  SALESMAN
                               1250
     7521 WARD
                 SALESMAN
                               1250
     7844 TURNER
                SALESMAN
                               1500
    7499 ALLEN
                SALESMAN
                               1600
     7782 CLARK
                  MANAGER
                               2450
     7698 BLAKE
                 MANAGER
                               2850
     7566 JONES
                  MANAGER
                               2975
```

7 rows selected.

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.....

```
SQL> cl scr
SQL> SELECT DISTINCT MGR
  2 FROM Emp
  3 /
       MGR
      7839
      7782
      7698
      7902
      7566
      7788
7 rows selected.
SQL> SELECT Sal
  2 FROM Emp
  3 WHERE MGR IN
  5
     SELECT DISTINCT MGR
  б
     FROM Emp
  7
      )
  8
       SAL
      2975
      2450
      2850
      1250
       950
      1500
      1600
      1250
      3000
      3000
       800
      1100
      1300
  rows selected.
SQL> SELECT Empno, Ename, Job, Sal
```

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```
.....
  2 FROM Emp
  3
    WHERE Sal < ANY
  4
    (
 5
    SELECT Sal
 б
     FROM Emp
 7
     WHERE MGR IN
 8
 9
          SELECT DISTINCT MGR
 10
          FROM Emp
 11
12
   );
                   JOB
    EMPNO ENAME
                                   SAL
                                  2850
     7698 BLAKE
                   MANAGER
     7782 CLARK
                                  2450
                  MANAGER
     7566 JONES
                  MANAGER
SALESMAN
                                  2975
     7654 MARTIN
                                  1250
     7499 ALLEN
                  SALESMAN
                                  1600
     7844 TURNER
                  SALESMAN
                                  1500
     7900 JAMES
                                   950
                   CLERK
     7521 WARD
                   SALESMAN
                                  1250
     7369 SMITH
                   CLERK
                                   800
     7876 ADAMS
                   CLERK
                                  1100
     7934 MILLER
                   CLERK
                                 1300
11 rows selected.
SQL> ED
Wrote file afiedt.buf
   SELECT Empno, Ename, Job, Sal
  2 FROM Emp
    WHERE Sal < ANY
  3
  4
  5
     SELECT Sal
  6
     FROM Emp
  7
     WHERE Job = 'MANAGER'
 8*
SOL>
    EMPNO ENAME
                   JOB
                                   SAL
     7369 SMITH
                   CLERK
                                   800
     7900 JAMES
                                   950
                   CLERK
     7876 ADAMS
                  CLERK
                                  1100
```

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```
.....
     7521 WARD
                     SALESMAN
                                    1250
     7654 MARTIN
                     SALESMAN
                                    1250
     7934 MILLER
                                    1300
                    CLERK
     7844 TURNER
                     SALESMAN
                                    1500
     7499 ALLEN
                     SALESMAN
                                    1600
     7782 CLARK
                    MANAGER
                                    2450
     7698 BLAKE
                    MANAGER
                                    2850
10 rows selected.
SOL> ED
Wrote file afiedt.buf
    SELECT Empno, Ename, Job, Sal
  2
   FROM Emp
  3
    WHERE Sal <
  4
  5
       SELECT MAX(Sal)
  6
       FROM Emp
  7
       WHERE MGR IN
  8
  9
               SELECT DISTINCT MGR
 10
               FROM Emp
 11
 12*
       );
SOL> /
  );
ERROR at line 12:
ORA-00911: invalid character
SOL> ED
Wrote file afiedt.buf
    SELECT Empno, Ename, Job, Sal
  2
    FROM Emp
  3
    WHERE Sal <
       SELECT MAX(Sal)
       FROM Emp
       WHERE MGR IN
  9
               SELECT DISTINCT MGR
 10
               FROM Emp
 11
```

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..... 12* SOL> / EMPNO ENAME JOB SAL _____ ___ MANAGER 7698 BLAKE 2850 7782 CLARK MANAGER 2450 7566 JONES MANAGER 2975 7654 MARTIN SALESMAN 1250 7499 ALLEN SALESMAN 1600 7844 TURNER SALESMAN 1500 7900 JAMES CLERK 950 7521 WARD 1250 SALESMAN 7369 SMITH CLERK 800 1100 7876 ADAMS CLERK 7934 MILLER CLERK 1300 11 rows selected. SOL> cl scr SQL> SELECT Empno, Ename, Job, Sal, Deptno 2 FROM Emp 3 WHERE Sal <ANY 4 (5 SELECT Sal FROM Emp 6 7 WHERE HireDate IN 8 9 SELECT HireDate 10 FROM Emp WHERE Deptno = 20 11 12); ERROR at line 12: ORA-00907: missing right parenthesis SQL> ED Wrote file afiedt.buf SELECT Empno, Ename, Job, Sal, Deptno FROM Emp

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3

WHERE Sal <ANY

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```
5 SELECT Sal
6 FROM Emp
7 WHERE HireDate IN
8 (
9 SELECT HireDate
10 FROM Emp
11 WHERE Deptno = 20
12 )
13*)
```

EMPNO	ENAME	JOB		SAL	DEPTNO
7698	BLAKE	MANAGER		2850	30
7782	CLARK	MANAGER		2450	10
7566	JONES	MANAGER		2975	20
7654	MARTIN	SALESMAN		1250	30
7499	ALLEN	SALESMAN		1600	30
7844	TURNER	SALESMAN		1500	30
7900	JAMES	CLERK		950	30
7521	WARD	SALESMAN		1250	30
7369	SMITH	CLERK		800	20
7876	ADAMS	CLERK		1100	20
7934	MILLER	CLERK	M	1300	10

11 rows selected.

SOL> /

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

```
1 SELECT Empno, Ename, Job, Sal, Deptno
  2 FROM Emp
  3
    WHERE Sal < ANY
  4
    (
  5
    SELECT MAX(Sal)
  6
     FROM Emp
  7
     WHERE HireDate IN
  8
           SELECT HireDate
 10
           FROM Emp
           WHERE Deptno = 20
 11
 12
13*
SQL> /
                      JOB
     EMPNO ENAME
                                        SAL
```

DEPTNO

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..... 7698 BLAKE MANAGER 2850 7782 CLARK MANAGER 2450 10 7566 JONES MANAGER 2975 20 7654 MARTIN SALESMAN 1250 30 7499 ALLEN SALESMAN 1600 30 7844 TURNER SALESMAN 1500 30 7900 JAMES CLERK 950 30 7521 WARD 1250 SALESMAN 30 7369 SMITH CLERK 800 20 20 7876 ADAMS CLERK 1100 7934 MILLER CLERK 1300 11 rows selected. SQL> ED Wrote file afiedt.buf SELECT Empno, Ename, Job, Sal, Deptno 2 FROM Emp WHERE Sal < 3 4 5 SELECT MAX(Sal) 6 FROM Emp 7 WHERE HireDate IN

EMPNO	ENAME	JOB	SAL	DEPTNO
7698	BLAKE	MANAGER	2850	30
7782	CLARK	MANAGER	2450	10
7566	JONES	MANAGER	2975	20
7654	MARTIN	SALESMAN	1250	30
7499	ALLEN	SALESMAN	1600	30
7844	TURNER	SALESMAN	1500	30
7900	JAMES	CLERK	950	30
7521	WARD	SALESMAN	1250	30
7369	SMITH	CLERK	800	20
7876	ADAMS	CLERK	1100	20
7934	MILLER	CLERK	1300	10

SELECT HireDate

WHERE Deptno =

FROM Emp

8

10

11

12 13*) SQL> /

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```
11 rows selected.
SOL> ED
Wrote file afiedt.buf
    SELECT Empno, Ename, Job, Sal, Deptno
    FROM Emp
     WHERE Sal <
  3
  4
     (
  5
     SELECT MAX(Sal)
  6
     FROM Emp
  7
      WHERE HireDate IN
  8
  9
            SELECT HireDate
 10
            FROM Emp
            WHERE Deptno =
 11
 12
                  (
 13
                  SELECT Deptno
 14
                  FROM Dept
 15
                  WHERE Dname = 'RESEARCH
 16
 17
 18*
SQL> /
                       JOB
     EMPNO ENAME
                                         SAL
                                                 DEPTNO
   ----- ----
      7698 BLAKE
                       MANAGER
                                        2850
                                                     30
      7782 CLARK
                       MANAGER
                                        2450
                                                     10
      7566 JONES
                       MANAGER
                                        2975
                                                     20
      7654 MARTIN
                       SALESMAN
                                        1250
                                                     30
      7499 ALLEN
                       SALESMAN
                                        1600
                                                     30
      7844 TURNER
                       SALESMAN
                                        1500
                                                     30
                                                     30
      7900 JAMES
                                        950
                       CLERK
      7521 WARD
                                        1250
                                                     30
                       SALESMAN
      7369 SMITH
                       CLERK
                                        800
                                                     20
      7876 ADAMS
                       CLERK
                                       1100
                                                     20
      7934 MILLER
                                       1300
                                                     10
                       CLERK
11 rows selected.
SQL> cl scr
```

SQL> SELECT Sal 2 FROM Emp

.....

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.....

```
3 WHERE Job = 'CLERK'
      SAL
      950
      800
     1100
     1300
SQL> SELECT Empno, Ename, Job, Sal
  2 FROM Emp
  3 WHERE Sal >ANY
  4
     (
  5
    SELECT Sal
  6
    FROM Emp
  7
     WHERE Job = 'CLERK'
     );
                     JOB
    EMPNO ENAME
                                      SAL
 _____
     7839 KING
                                     5000
                     PRESIDENT
     7788 SCOTT
                                     3000
                     ANALYST
     7902 FORD
                     ANALYST
                                     3000
     7566 JONES
                     MANAGER
                                     2975
     7698 BLAKE
                     MANAGER
                                     2850
     7782 CLARK
                     MANAGER
                                     2450
     7499 ALLEN
                     SALESMAN
                                     1600
     7844 TURNER
                     SALESMAN
                                     1500
                     CLERK
     7934 MILLER
                                     1300
     7521 WARD
                     SALESMAN
                                     1250
     7654 MARTIN
                     SALESMAN
                                     1250
     7876 ADAMS
                     CLERK
                                     1100
     7900 JAMES
                     CLERK
                                     950
13 rows selected.
SOL> ED
Wrote file afiedt.buf
    SELECT Empno, Ename, Job, Sal
    FROM Emp
    WHERE Sal >
  5
     SELECT MIN(Sal)
     FROM Emp
```

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.....

```
7 WHERE Job = 'CLERK' 8* )
SQL> /
```

EMPNO	ENAME	JOB	SAL
7839	KING	PRESIDENT	5000
7698	BLAKE	MANAGER	2850
7782	CLARK	MANAGER	2450
7566	JONES	MANAGER	2975
7654	MARTIN	SALESMAN	1250
7499	ALLEN	SALESMAN	1600
7844	TURNER	SALESMAN	1500
7900	JAMES	CLERK	950
7521	WARD	SALESMAN	1250
7902	FORD	ANALYST	3000
7788	SCOTT	ANALYST	3000
7876	ADAMS	CLERK	1100
7934	MILLER	CLERK	1300

13 rows selected.

SQL> SELECT Empno, Ename, Job

- 2 FROM Emp
- 3 WHERE Sal >ANY
- 4 (
- 5 SELECT Sal
- 6 FROM Emp
- 7 WHERE Deptno = 10
- 8);

EMPNO	ENAME	JOB
7839	KING	PRESIDENT
7788	SCOTT	ANALYST
7902	FORD	ANALYST
7566	JONES	MANAGER
7698	BLAKE	MANAGER
7782	CLARK	MANAGER
7499	ALLEN	SALESMAN
7844	TURNER	SALESMAN

8 rows selected.

SQL> ED Wrote file afiedt.buf

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```
SELECT Empno, Ename, Job, Sal
  2 FROM Emp
  3 WHERE Sal >ANY
  4
 5
    SELECT Sal
 6
    FROM Emp
 7
     WHERE Deptno = 10
 8* )
SOL> /
                     JOB
    EMPNO ENAME
                                       SAL
     7839 KING
                                      5000
                     PRESIDENT
                                      3000
     7788 SCOTT
                    ANALYST
     7902 FORD
                                      3000
                    ANALYST
     7566 JONES
                     MANAGER
                                      2975
     7698 BLAKE
                     MANAGER
                                      2850
     7782 CLARK
                     MANAGER
                                      2450
     7499 ALLEN
                                      1600
                     SALESMAN
     7844 TURNER
                                      1500
                     SALESMAN
8 rows selected.
SQL> SELECT Empno, Ename, Job
  2 FROM Emp
 3 WHERE Sal >ANY
  4
  5
    SELECT Sal
 6
     FROM Emp
 7
     WHERE Deptno =
 8
           (
           SELECT Deptno
 9
10
           FROM Dept
           WHERE Dname = 'ACCOUNTING'
11
12
13
    EMPNO ENAME
                     JOB
      7839 KING
                     PRESIDENT
      7698 BLAKE
                     MANAGER
      7782 CLARK
                     MANAGER
      7566 JONES
                     MANAGER
      7499 ALLEN
                     SALESMAN
      7844 TURNER
                     SALESMAN
```

.-----

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```
.....
     7902 FORD
                    ANALYST
     7788 SCOTT
                    ANALYST
8 rows selected.
SOL> ED
Wrote file afiedt.buf
 1 SELECT Empno, Ename, Job, Sal
    FROM Emp
  3 WHERE Sal >ANY
  4
  5
    SELECT Sal
 6
    FROM Emp
 7
     WHERE Deptno =
 8
         (
 9
          SELECT Deptno
 10
          FROM Dept
 11
          WHERE Dname = 'ACCOUNTING'
12
13* )
SOL> /
    EMPNO ENAME
                                    SAL
     7839 KING
                                   5000
                    PRESIDENT
     7698 BLAKE
                    MANAGER
                                   2850
                    MANAGER
     7782 CLARK
                                   2450
     7566 JONES
                    MANAGER
                                   2975
     7499 ALLEN
                    SALESMAN
                                   1600
     7844 TURNER
                    SALESMAN
                                   1500
     7902 FORD
                    ANALYST
                                   3000
     7788 SCOTT
                    ANALYST
                                   3000
8 rows selected.
SQL> ED
Wrote file afiedt.buf
    SELECT Empno, Ename, Job, Sal
    FROM Emp
    WHERE Sal >
     SELECT MIN(Sal)
     FROM Emp
     WHERE Deptno =
```

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```
.....
 9
         SELECT Deptno
10
         FROM Dept
11
         WHERE Dname = 'ACCOUNTING'
12
13* )
SQL> /
    EMPNO ENAME JOB
                                SAL
 -----
    7839 KING
                PRESIDENT
                               5000
    7698 BLAKE
                MANAGER
                               2850
    7782 CLARK
                MANAGER
                               2450
    7566 JONES
7499 ALLEN
                MANAGER
                               2975
                SALESMAN
                               1600
    7844 TURNER
                SALESMAN
                               1500
                ANALYST
    7902 FORD
                               3000
     7788 SCOTT
                ANALYST
8 rows selected.
SOL> cl scr
SQL> SELECT Empno, Ename, Job, Sal
 2 FROM Emp
 3 WHERE Sal IN
 4 (
 5 SELECT Sal
   FROM Emp
 6
 7
   WHERE Job = 'CLERK'
    EMPNO ENAME
                  JOB
  -----
    7900 JAMES
                                950
                 CLERK
    7369 SMITH
                 CLERK
                               800
    7876 ADAMS
                 CLERK
                               1100
     7934 MILLER
                 CLERK
                               1300
SQL> ED
Wrote file afiedt.buf
    SELECT Empno, Ename, Job, Sal
   FROM Emp
 3
   WHERE Sal = ANY
```

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```
.....
    SELECT Sal
 6
    FROM Emp
 7
   WHERE Job = 'CLERK'
 8*
SQL> /
                  JOB
    EMPNO ENAME
                                 SAL
     7900 JAMES
                 CLERK
                 CLERK
     7369 SMITH
                                 800
     7876 ADAMS
                 CLERK
                                1100
     7934 MILLER
                 CLERK
                                1300
SQL> ED
Wrote file afiedt.buf
 1 SELECT Empno, Ename, Job, Sal
 2 FROM Emp
 3 WHERE Sal =SOME
 5
   SELECT Sal
 6
   FROM Emp
   WHERE Job = 'CLERK'
 7
 8* )
SQL> /
    EMPNO ENAME
                   JOB
                                 SAL
 _____
     7900 JAMES
                   CLERK
                                 950
                   CLERK
     7369 SMITH
                                 800
     7876 ADAMS
                   CLERK
                                1100
     7934 MILLER
                   CLERK
                                1300
SOL> cl scr
SQL> SELECT Deptno, MIN(Sal)
 2 FROM Emp
   GROUP BY Deptno;
   DEPTNO
           MIN(SAL)
       30
               950
       20
              800
      10
             1300
```

SOL> ED

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```
Wrote file afiedt.buf
     SELECT Ename, Deptno, Sal, Job
     FROM Emp
  3
     WHERE Sal >ALL
  4
  5
     SELECT Deptno, MIN(Sal)
  6
     FROM Emp
  7
      GROUP BY Deptno
  8*
SQL> /
      SELECT Deptno, MIN(Sal)
ERROR at line 5:
ORA-00913: too many values
SOL> ED
Wrote file afiedt.buf
  1 SELECT Ename, Deptno, Sal, Job
  2
    FROM Emp
  3 WHERE Sal >ALL
  5
      SELECT MIN(Sal)
  6
      FROM Emp
  7
      GROUP BY Deptno
  8*
SQL> /
                DEPTNO
ENAME
                              SAL JOB
KING
                    10
                              5000 PRESIDENT
                    30
BLAKE
                              2850 MANAGER
                    10
                             2450 MANAGER
CLARK
                    20
                             2975 MANAGER
JONES
ALLEN
                    30
                             1600 SALESMAN
TURNER
                    30
                             1500 SALESMAN
                    20
                             3000 ANALYST
FORD
                             3000 ANALYST
SCOTT
                    20
8 rows selected.
SOL> ED
```

Wrote file afiedt.buf

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```
.....
 1 SELECT Ename, Deptno, Sal, Job
    FROM Emp
  3 WHERE Sal >
  4
  5
    SELECT MAX(MIN(Sal))
  6
    FROM Emp
  7
    GROUP BY Deptno
 8* )
SQL> /
ENAME
                          SAL JOB
            DEPTNO
                         5000 PRESIDENT
KING
                 10
BLAKE
                 30
                         2850 MANAGER
                 10
CLARK
                         2450 MANAGER
JONES
                 20
                         2975 MANAGER
ALLEN
                 30
                         1600 SALESMAN
TURNER
                 30
                         1500 SALESMAN
                 20
FORD
                         3000 ANALYST
SCOTT
                 20
                         3000 ANALYST
8 rows selected.
SQL> cl scr
SOL> SELECT AVG(Sal)
 2 FROM Emp
  3 GROUP BY Deptno
 AVG(SAL)
1566.66667
     2175
2916.66667
SQL> SELECT Empno, Ename, Job, Sal
    FROM Emp
    WHERE Sal >ALL
    SELECT AVG(Sal)
    FROM Emp
     GROUP BY Deptno
     );
    EMPNO ENAME
                    JOB
                                   SAL
```

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```
.....
     7839 KING
                   PRESIDENT
                                  5000
                                 2975
     7566 JONES
                   MANAGER
     7902 FORD
                   ANALYST
                                 3000
     7788 SCOTT
                   ANALYST
                                 3000
SQL> ED
Wrote file afiedt.buf
  1 SELECT Empno, Ename, Job, Sal
 2 FROM Emp
  3 WHERE Sal >
  4
 5
    SELECT MAX(AVG(Sal))
 6
   FROM Emp
  7
    GROUP BY Deptno
 8* )
SOL> /
                   JOB
    EMPNO ENAME
                                   SAL
     7839 KING
                                  5000
                   PRESIDENT
     7566 JONES
                   MANAGER
                                  2975
     7902 FORD
                   ANALYST
                                  3000
     7788 SCOTT
                   ANALYST
                                 3000
SOL> ED
Wrote file afiedt.buf
 1 SELECT Empno, Ename, Job, Sal
 2 FROM Emp
  3 WHERE Sal >ALL
  4
    (
  5
    SELECT AVG(Sal)
   FROM Emp
 6
  7
     GROUP BY Job
 8*
SQL> /
no rows selected
SQL> SELECT AVG(Sal)
    FROM Emp
    GROUP BY Job;
 AVG(SAL)
```

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```
.....
     1400
   1037.5
     5000
2758.33333
     3000
SQL> cl scr
SOL> SELECT MAX(Sal)
 2 FROM Emp
  3 GROUP BY Deptno;
 MAX(SAL)
_____
     2850
     3000
     5000
SOL> ED
Wrote file afiedt.buf
 1 SELECT Ename, Deptno, Sal
 2
   FROM Emp
    WHERE Sal <ALL
 3
  4
    (
 5
    SELECT MAX(Sal)
  6
     FROM Emp
  7
     GROUP BY Deptno
  8*
SQL> /
             DEPTNO
                          SAL
ENAME
                 10
                         2450
CLARK
                 30
                         1250
MARTIN
ALLEN
                 30
                         1600
TURNER
                 30
                         1500
JAMES
                 30
                          950
                         1250
WARD
                 30
SMITH
                 20
                          800
```

9 rows selected.

ADAMS

MILLER

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1100

1300

20

10

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```
.....
SQL> ED
Wrote file afiedt.buf
   SELECT Ename, Deptno, Sal
 2
   FROM Emp
 3 WHERE Sal <
 4
 5
   SELECT MIN(MAX(Sal))
 6
   FROM Emp
 7
    GROUP BY Deptno
 8*
    )
SQL> /
ENAME
            DEPTNO
                         SAL
_____
CLARK
                10
                        2450
MARTIN
                30
                        1250
                30
ALLEN
                        1600
TURNER
                30
                        1500
                30
                         950
JAMES
WARD
                30
                        1250
SMITH
                20
                         800
                        1100
ADAMS
                20
                10
MILLER
                        1300
9 rows selected.
SQL> cl scr
SQL> SELECT AVG(Sal)
 2 FROM Emp
 3 GROUP BY Deptno
 AVG(SAL)
1566.66667
     2175
2916.66667
    SELECT Empno, Ename Job, Sal
    FROM Emp
    WHERE Sal <ALL
 5
     SELECT AVG(Sal)
    FROM Emp
```

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.....

```
GROUP BY Deptno
  8
     );
    EMPNO JOB
 -----
     7654 MARTIN
                          1250
                         1500
     7844 TURNER
     7900 JAMES
                          950
     7521 WARD
                         1250
     7369 SMITH
                          800
     7876 ADAMS
                          1100
     7934 MILLER
                         1300
7 rows selected.
SQL> ED
Wrote file afiedt.buf
  1 SELECT Empno, Ename Job, Sal
  2 FROM Emp
  3 WHERE Sal <
  4
  5 SELECT MIN(AVG(Sal))
  6
    FROM Emp
  7
     GROUP BY Deptno
  8*
    )
SOL> /
    EMPNO JOB
                           SAL
     7654 MARTIN
                          1250
     7844 TURNER
                          1500
     7900 JAMES
                           950
     7521 WARD
                          1250
     7369 SMITH
                           800
     7876 ADAMS
                          1100
     7934 MILLER
                          1300
7 rows selected.
SQL> cl scr
SQL> --WHERE Deptno = 10 AND Job = 'MANAGER' --COMPONENT WHERE Clause
SQL> --WHERE (Deptno, Job) IN(SELECT Deptno, Job --COMPOUND WHERE Clause
SOL>
SOL> SPOOL OFF
```

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