```
SQL> cl scr

SQL> SELECT Deptno, MAX(Sal)
  2  FROM Emp
  3  GROUP BY Deptno;

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

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
```

```
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)
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> cl scr

SQL> 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> /

ENAME             DEPTNO JOB             SAL
---------- ---------- -------- ----------
MARTIN               30 SALESMAN       1250
JAMES                30 CLERK           950
WARD                 30 SALESMAN       1250
SMITH                20 CLERK           800
ADAMS                20 CLERK          1100

SQL> SELECT MIN(Sal)
  2   FROM Emp
  3   GROUP BY Deptno;

  MIN(SAL)
----------
       950
       800
      1300

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Job, Sal
```

```
  2  FROM Emp
  3  WHERE Sal <
  4     (
  5     SELECT MAX(MIN(Sal))
  6     FROM Emp
  7     GROUP BY Deptno
  8*    )
SQL> /

ENAME           DEPTNO JOB            SAL
---------- ---------- --------- ----------
MARTIN             30 SALESMAN      1250
JAMES              30 CLERK          950
WARD               30 SALESMAN      1250
SMITH              20 CLERK          800
ADAMS              20 CLERK         1100

SQL> SELECT Empno, Ename, Job
  2  FROM Emp
  3  WHERE Sal < ANY
  4   (
  5   SELECT Sal
  6   FROM Emp
  7   WHERE Job = 'CLERK'
  8   );

    EMPNO ENAME      JOB
---------- ---------- ---------
     7369 SMITH      CLERK
     7900 JAMES      CLERK
     7876 ADAMS      CLERK
     7521 WARD       SALESMAN
     7654 MARTIN     SALESMAN

SQL> ED
Wrote file afiedt.buf

  1  SELECT Empno, Ename, Job, Sal
  2  FROM Emp
  3  WHERE Sal < ANY
  4   (
  5   SELECT Sal
  6   FROM Emp
  7   WHERE Job = 'CLERK'
  8*  )
SQL> /
```

```
     EMPNO ENAME      JOB             SAL
---------- ---------- --------- ----------
      7369 SMITH      CLERK           800
      7900 JAMES      CLERK           950
      7876 ADAMS      CLERK          1100
      7521 WARD       SALESMAN       1250
      7654 MARTIN     SALESMAN       1250

SQL> 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
      7876 ADAMS      CLERK          1100

SQL> cl scr

SQL> SELECT Empno, Ename, Job
  2   FROM Emp
  3   WHERE Sal <ANY
  4    (
  5    SELECT Sal
  6    FROM Emp
  7    WHERE Deptno = 20
  8    )ED
  9
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
  7   WHERE Deptno = 20
  8*  )
SQL> /

     EMPNO ENAME      JOB
---------- ---------- ---------
      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, Sal
  2  FROM Emp
  3  WHERE Sal <ANY
  4  (
  5   SELECT Sal
  6   FROM Emp
  7   WHERE Deptno = 20
  8*  )
SQL> /

     EMPNO ENAME      JOB             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
```

....

```
      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

  1  SELECT Empno, Ename, Job, Sal
  2  FROM Emp
  3  WHERE Sal <
  4     (
  5     SELECT MAX(Sal)
  6     FROM Emp
  7     WHERE Deptno = 20
  8*    )
SQL> /

     EMPNO ENAME      JOB             SAL
---------- ---------- --------- ----------
      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
      7369 SMITH      CLERK            800
      7876 ADAMS      CLERK           1100
      7934 MILLER     CLERK           1300
```

```
11 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Empno, Ename, Job, Sal
  2   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 = 'RESEARCH'
 12          )
 13*  )
SQL> /

     EMPNO ENAME       JOB            SAL
---------- ---------- --------- ----------
      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
      7369 SMITH       CLERK          800
      7876 ADAMS       CLERK         1100
      7934 MILLER      CLERK         1300

11 rows selected.

SQL> 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 Deptno =
```

```
   8          (
   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
      7654 MARTIN     SALESMAN        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     CLERK           1300

11 rows selected.

SQL> SELECT Empno, Ename, Job, Sal
  2  FROM Emp
  3  WHERE Sal < ANY
  4  (
  5  SELECT Sal
  6  FROM Emp
  7  WHERE Deptno = 20
  8  )
  9  AND Job <> 'CLERK';

     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.
```

....

```
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
  4   (
  5    SELECT DISTINCT MGR
  6    FROM Emp
  7   )
  8   /

       SAL
----------
      2975
      2450
      2850
      1250
       950
      1500
      1600
      1250
      3000
      3000
       800
      1100
      1300

13 rows selected.

SQL> SELECT Empno, Ename, Job, Sal
```

```
  2   FROM Emp
  3   WHERE Sal < ANY
  4    (
  5    SELECT Sal
  6    FROM Emp
  7    WHERE MGR IN
  8         (
  9          SELECT DISTINCT MGR
 10          FROM Emp
 11          )
 12    );

     EMPNO ENAME        JOB            SAL
---------- ---------- --------- ----------
      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
      7369 SMITH        CLERK          800
      7876 ADAMS        CLERK         1100
      7934 MILLER       CLERK         1300

11 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Empno, Ename, Job, Sal
  2   FROM Emp
  3   WHERE Sal < ANY
  4    (
  5    SELECT Sal
  6    FROM Emp
  7    WHERE Job = 'MANAGER'
  8*   )
SQL> /

     EMPNO ENAME        JOB            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
        7499 ALLEN         SALESMAN          1600
        7782 CLARK         MANAGER           2450
        7698 BLAKE         MANAGER           2850

10 rows selected.

SQL> 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 MGR IN
  8               (
  9               SELECT DISTINCT MGR
 10               FROM Emp
 11               )
 12*     );
SQL> /
    );
     *
ERROR at line 12:
ORA-00911: invalid character


SQL> 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 MGR IN
  8               (
  9               SELECT DISTINCT MGR
 10               FROM Emp
 11               )
```

....

```
 12*      )
SQL> /

     EMPNO ENAME      JOB            SAL
---------- ---------- --------- ----------
      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
      7369 SMITH      CLERK           800
      7876 ADAMS      CLERK          1100
      7934 MILLER     CLERK          1300

11 rows selected.

SQL> cl scr

SQL> SELECT Empno, Ename, Job, Sal, Deptno
  2  FROM Emp
  3  WHERE Sal <ANY
  4   (
  5    SELECT Sal
  6    FROM Emp
  7    WHERE HireDate IN
  8         (
  9          SELECT HireDate
 10          FROM Emp
 11          WHERE Deptno = 20
 12          );
            )
            *
ERROR at line 12:
ORA-00907: missing right parenthesis


SQL> ED
Wrote file afiedt.buf

  1  SELECT Empno, Ename, Job, Sal, Deptno
  2  FROM Emp
  3  WHERE Sal <ANY
  4   (
```

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

```
     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
```

11 rows selected.

```
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         (
   9           SELECT HireDate
  10           FROM Emp
  11           WHERE Deptno = 20
  12         )
  13*  )
SQL> /
```

```
     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

11 rows selected.

SQL> ED
Wrote file afiedt.buf

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

    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
```

```
11 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Empno, Ename, Job, Sal, Deptno
  2   FROM Emp
  3   WHERE Sal <
  4    (
  5    SELECT MAX(Sal)
  6    FROM Emp
  7    WHERE HireDate IN
  8          (
  9           SELECT HireDate
 10           FROM Emp
 11           WHERE Deptno =
 12                (
 13                 SELECT Deptno
 14                 FROM Dept
 15                 WHERE Dname = 'RESEARCH'
 16                )
 17          )
 18*  )
SQL> /

     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

11 rows selected.

SQL> cl scr

SQL> SELECT Sal
  2  FROM Emp
```

```
   3  WHERE Job = 'CLERK'
   4  /

       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'
   8  );

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

13 rows selected.

SQL> ED
Wrote file afiedt.buf

   1  SELECT Empno, Ename, Job, Sal
   2  FROM Emp
   3  WHERE Sal >
   4  (
   5   SELECT MIN(Sal)
   6   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
```

```
    1   SELECT Empno, Ename, Job, Sal
    2   FROM Emp
    3   WHERE Sal >ANY
    4   (
    5    SELECT Sal
    6    FROM Emp
    7    WHERE Deptno = 10
    8*  )
SQL> /

     EMPNO ENAME          JOB             SAL
---------- ---------- --------- ----------
      7839 KING           PRESIDENT      5000
      7788 SCOTT          ANALYST        3000
      7902 FORD           ANALYST        3000
      7566 JONES          MANAGER        2975
      7698 BLAKE          MANAGER        2850
      7782 CLARK          MANAGER        2450
      7499 ALLEN          SALESMAN       1600
      7844 TURNER         SALESMAN       1500

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        (
  9         SELECT Deptno
 10         FROM Dept
 11         WHERE Dname = 'ACCOUNTING'
 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.

SQL> ED
Wrote file afiedt.buf

  1   SELECT Empno, Ename, Job, Sal
  2   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*  )
SQL> /

     EMPNO ENAME         JOB                 SAL
---------- ----------    ------------------- ----------
      7839 KING          PRESIDENT          5000
      7698 BLAKE         MANAGER            2850
      7782 CLARK         MANAGER            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

  1  SELECT Empno, Ename, Job, Sal
  2  FROM Emp
  3  WHERE Sal >
  4  (
  5   SELECT MIN(Sal)
  6  FROM Emp
  7   WHERE Deptno =
```

```
  8         (
  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      MANAGER         2975
      7499 ALLEN      SALESMAN        1600
      7844 TURNER     SALESMAN        1500
      7902 FORD       ANALYST         3000
      7788 SCOTT      ANALYST         3000

8 rows selected.

SQL> cl scr

SQL> SELECT Empno, Ename, Job, Sal
  2  FROM Emp
  3  WHERE  Sal IN
  4  (
  5  SELECT Sal
  6  FROM Emp
  7  WHERE Job = 'CLERK'
  8  );

     EMPNO ENAME      JOB            SAL
---------- ---------- --------- ----------
      7900 JAMES      CLERK           950
      7369 SMITH      CLERK           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 =ANY
  4  (
```

....

```
  5    SELECT Sal
  6    FROM Emp
  7    WHERE Job = 'CLERK'
  8*   )
SQL> /

    EMPNO ENAME        JOB            SAL
---------- ---------- --------- ----------
      7900 JAMES        CLERK          950
      7369 SMITH        CLERK          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
  4    (
  5     SELECT Sal
  6     FROM Emp
  7     WHERE Job = 'CLERK'
  8*   )
SQL> /

    EMPNO ENAME        JOB            SAL
---------- ---------- --------- ----------
      7900 JAMES        CLERK          950
      7369 SMITH        CLERK          800
      7876 ADAMS        CLERK         1100
      7934 MILLER       CLERK         1300

SQL> cl scr

SQL> SELECT Deptno, MIN(Sal)
  2    FROM Emp
  3    GROUP BY Deptno;

    DEPTNO   MIN(SAL)
---------- ----------
        30        950
        20        800
        10       1300

SQL> ED
```

....

```
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Sal, Job
  2   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


SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Sal, Job
  2   FROM Emp
  3   WHERE Sal >ALL
  4   (
  5    SELECT MIN(Sal)
  6    FROM Emp
  7    GROUP BY Deptno
  8*  )
SQL> /

ENAME           DEPTNO        SAL JOB
---------- ------------- ---------- ---------
KING            10         5000 PRESIDENT
BLAKE           30         2850 MANAGER
CLARK           10         2450 MANAGER
JONES           20         2975 MANAGER
ALLEN           30         1600 SALESMAN
TURNER          30         1500 SALESMAN
FORD            20         3000 ANALYST
SCOTT           20         3000 ANALYST

8 rows selected.

SQL> ED
Wrote file afiedt.buf
```

```
   1    SELECT Ename, Deptno, Sal, Job
   2    FROM Emp
   3    WHERE Sal >
   4    (
   5    SELECT MAX(MIN(Sal))
   6    FROM Emp
   7    GROUP BY Deptno
   8*   )
SQL> /

ENAME           DEPTNO        SAL JOB
---------- ---------- ---------- ---------
KING                10       5000 PRESIDENT
BLAKE               30       2850 MANAGER
CLARK               10       2450 MANAGER
JONES               20       2975 MANAGER
ALLEN               30       1600 SALESMAN
TURNER              30       1500 SALESMAN
FORD                20       3000 ANALYST
SCOTT               20       3000 ANALYST

8 rows selected.

SQL> cl scr

SQL> SELECT AVG(Sal)
   2    FROM Emp
   3    GROUP BY Deptno
   4    /

  AVG(SAL)
----------
1566.66667
      2175
2916.66667

SQL> SELECT Empno, Ename, Job, Sal
   2    FROM Emp
   3    WHERE Sal >ALL
   4    (
   5    SELECT AVG(Sal)
   6    FROM Emp
   7    GROUP BY Deptno
   8    );

     EMPNO ENAME      JOB                SAL
```

....

```
---------- ---------- --------- ----------
      7839 KING       PRESIDENT       5000
      7566 JONES      MANAGER         2975
      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*   )
SQL> /

     EMPNO ENAME      JOB            SAL
---------- ---------- --------- ----------
      7839 KING       PRESIDENT       5000
      7566 JONES      MANAGER         2975
      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 >ALL
  4    (
  5    SELECT AVG(Sal)
  6    FROM Emp
  7    GROUP BY Job
  8*   )
SQL> /

no rows selected

SQL> SELECT AVG(Sal)
  2   FROM Emp
  3   GROUP BY Job;

  AVG(SAL)
```

```
          ----------
               1400
             1037.5
               5000
        2758.33333
               3000

SQL> cl scr

SQL> SELECT MAX(Sal)
  2   FROM Emp
  3   GROUP BY Deptno;

    MAX(SAL)
  ----------
        2850
        3000
        5000

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Deptno, Sal
  2   FROM Emp
  3   WHERE Sal <ALL
  4    (
  5    SELECT MAX(Sal)
  6    FROM Emp
  7    GROUP BY Deptno
  8*  )
SQL> /

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

9 rows selected.
```

```
SQL> ED
Wrote file afiedt.buf

  1   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
ALLEN              30       1600
TURNER             30       1500
JAMES              30        950
WARD               30       1250
SMITH              20        800
ADAMS              20       1100
MILLER             10       1300

9 rows selected.

SQL> cl scr

SQL> SELECT  AVG(Sal)
  2   FROM Emp
  3   GROUP BY Deptno
  4   /

  AVG(SAL)
---------
1566.66667
      2175
2916.66667

SQL> SELECT Empno, Ename Job, Sal
  2   FROM Emp
  3   WHERE Sal <ALL
  4    (
  5    SELECT  AVG(Sal)
  6    FROM Emp
```

....

```
  7   GROUP BY Deptno
  8   );

     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> 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*  )
SQL> /

     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
SQL>
SQL> SPOOL OFF
```