SQL> cl scr

SQL> SELECT OrdID, ProdID, Qty
2 FROM Item;

ORDID	PRODID	QTY
610	100890	1
611	100861	1
612	100860	100
601	200376	1
602	100870	20
604	100890	3
604	100861	2
604	100860	10
603	100860	4
610	100860	1
610	100870	3
613	200376	200
614	100860	444
614	100870	1000
612	100861	20
612	101863	150
620	100860	10
ORDID	PRODID	QTY
620	200376	1000
620	102130	500
613	100871	100
613	101860	200
613	200380	150
619	102130	100
617	100860	50
617	100861	100
614	100871	1000
616	100861	10
616	100870	50
616	100890	2
616	102130	10
616	200376	10
619	200380	100
619	200376	100
615	100861	4

\_\_\_\_\_\_

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ORDID	PRODID	QTY
607	100871	1
615	100870	100
617	100870	500
617	100871	500
617	100890	500
617	101860	100
617	101863	200
617	102130	100
617	200376	200
617	200380	300
609 609	100870	5 1
618	100890 100860	23
618	100860	23 50
618	100870	10
621	100870	10
621	100871	100
021	100070	100
ORDID	PRODID	QTY
615	100871	50
608	101860	1
608	100871	2
609	100861	1
606	102130	1
605	100861	100
605	100870	500
605	100890	5
605	101860	50
605	101863	100
605	102130	10
612	100871	100
619	100871	50

64 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT DISTINCT OrdID
- 2\* FROM Item

\_\_\_\_\_

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SQL> / ORDID 604 606 614 619 605 607 608 620 610 609 613 616 603 611 615 612 621 ORDID 601 602 617 618 21 rows selected. SQL> E#D SP2-0042: unknown command "E#D" - rest of line ignored. SOL> ED

```
Wrote file afiedt.buf
  1 SELECT OrdID
  2 FROM Item
```

3\* GROUP BY

SQL> /

GROUP BY

ERROR at line 3:

ORA-00936: missing expression

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```
Wrote file afiedt.buf
  1 SELECT OrdID
  2 FROM Item
  3* GROUP BY OrdID
SQL> /
     ORDID
       601
       602
       603
       604
       605
       606
       607
       608
       609
       610
       611
       612
       613
       614
       615
       616
       617
     ORDID
       618
       619
       620
       621
21 rows selected.
SQL> cl scr
SOL> ED
Wrote file afiedt.buf
```

SOL> ED

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.....

```
1 SELECT COUNT(DISTINCT OrdID)
```

2\* FROM Item

SQL> /

#### COUNT(DISTINCTORDID)

\_\_\_\_\_\_

2

SQL> cl scr

SQL> SELECT ProdId, Qty

2 FROM Item

3 WHERE OrdID = 605

4

PRODID	QTY
100861	100
100870	500
100890	5
101860	50
101863	100
102130	10

6 rows selected.

SQL> SELECT OrdID, ProdID, Qty

- 2 FROM Item
- 3 WHERE (ProdID, Qty) IN
- 4
- 5 SELECT ProdId, Qty
- 6 FROM Item
- 7 WHERE OrdID = 605
- 8 ) AND
- 9 OrdID <> 605;

ORDID	PRODID	QTY
617	100861	100
617	100870	500
616	102130	10

SQL> SELECT ProdId, Qty

2 FROM Item

\_\_\_\_\_

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.....

```
4 /
 PRODID
                OTY
 100860
                 50
 100861
                100
  100870
                500
                500
 100871
  100890
                500
 101860
                100
 101863
                200
  102130
                100
  200376
                200
  200380
                300
```

3 WHERE OrdID = 617

10 rows selected.

```
SQL> SELECT ProdId, Qty
2 FROM Item
3 WHERE OrdID = 605;
```

PRODID	QTY
100861	100
100870	500
100890	5
101860	50
101863	100
102130	10

6 rows selected.

```
SQL> SELECT OrdID, ProdID, Qty
  2 FROM Item
  3
   WHERE ProdID IN
  4
  5
     SELECT ProdID
  6
     FROM Item
     WHERE OrdID = 605
  8
  9
     AND
           Qty IN
 10
 11
     SELECT Qty
```

------

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- 12 FROM Item 13 WHERE OrdID = 605
- 14 )
- 15 AND OrdID <> 605;

ORDID	PRODID	QTY
616	100861	10
621	100861	10
618	100861	50
617	100861	100
618	100870	10
616	100870	50
609	100870	5
617	100870	500
615	100870	100
621	100870	100
617	100890	500
617	101860	100
616	102130	10
620	102130	500
619 617	102130 102130 102130	100 100

16 rows selected.

SQL> cl scr

SQL> SELECT Ename, Deptno, Sal

- 2 FROM Emp
- 3 WHERE (Deptno, Sal) IN
- 1
- 5 SELECT Deptno, MAX(Sal)
- 6 FROM Emp
- 7 GROUP BY Deptno
- 3);

ENAME	DEPTNO	SAL
KING	10	5000
BLAKE	30	2850
FORD	20	3000
SCOTT	20	3000

-----

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```
.....
SQL> SELECT Ename, Deptno, Sal
  2 FROM Emp
  3
    WHERE Deptno IN
  4
    SELECT Deptno
  5
  6
    FROM Emp
  7
    GROUP BY Deptno
    ) AND
    Sal IN
 9
 10
    (
 11
    SELECT MAX(Sal)
 12
    FROM Emp
     GROUP BY Deptno
 13
 14
ENAME
          DEPTNO
                          SAL
                 10
                          5000
KING
BLAKE
                 30
                          2850
                 20
FORD
                          3000
SCOTT
                 20
                         3000
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Sal)
  2 VALUES(7935, 'SURESH', 10, 3000);
1 row created.
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Sal)
  2 VALUES(7936, 'SUKESH', 10, 2850);
1 row created.
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Sal)
  2 VALUES(7937, 'RUPESH', 20, 2850);
1 row created.
SQL> SELECT Ename, Deptno, Sal
  2 FROM Emp
    WHERE (Deptno, Sal) IN
  4
 5
       SELECT Deptno, MAX(Sal)
```

6

FROM Emp

GROUP BY Deptno

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```
);
ENAME
               DEPTNO
                              SAL
                             5000
KING
                   10
BLAKE
                   30
                             2850
FORD
                   20
                             3000
SCOTT
                   20
                            3000
SQL> SELECT Ename, Deptno, Sal
  2 FROM Emp
  3 WHERE Deptno IN
  4
  5
        SELECT Deptno
  6
        FROM Emp
  7
        GROUP BY Deptno
  8
        ) AND
  9 Sal IN
 10
      (
 11
        SELECT MAX(Sal)
 12
        FROM Emp
 13
        GROUP BY Deptno
 14
        );
ENAME
              DEPTNO
                             SAL
                             5000
                   10
KING
                   30
                             2850
BLAKE
FORD
                   20
                             3000
                   20
                             3000
SCOTT
SURESH
                   10
                             3000
                   10
SUKESH
                             2850
                    20
RUPESH
                             2850
7 rows selected.
SQL> cl scr
SQL> SELECT Ename, Deptno, Sal
    FROM Emp
  3
     WHERE (Deptno, Sal) IN
  4
 5
     SELECT Deptno, MIN(Sal)
     FROM Emp
```

\_\_\_\_\_\_

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```
7 GROUP BY Deptno
8 );
```

ENAME	DEPTNO	SAL
JAMES	30	950
SMITH	20	800
MILLER	10	1300

SQL> ROLLBACK;

Rollback complete.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Deptno, Sal
 2
   FROM Emp
 3
   WHERE Deptno IN
 5
   SELECT Deptno
 6
   FROM Emp
 7
   GROUP BY Deptno
   ) AND
   Sal IN
 9
10
   (
11
   SELECT MIN(Sal)
12
   FROM Emp
    GROUP BY Deptno
13
```

ENAME	DE	PTNO	SAL
JAMES		30	950
SMITH		20	800
MILLER		10	1300

SOL> cl scr

SQL> ED

14\* ) SQL> /

Wrote file afiedt.buf

1 SELECT Ename, Job, Sal

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800

3000

..... 2 FROM Emp 3 WHERE (Job, Sal) IN 4 5 SELECT Job, MIN(Sal) 6 FROM Emp 7 GROUP BY Job 8\* ) SQL> / ENAME JOB SAL 5000 KING PRESIDENT CLARK MANAGER 2450 MARTIN SALESMAN 1250 SALESMAN 1250 WARD ANALYST 3000 FORD

7 rows selected.

SQL> ED

SMITH

SCOTT

Wrote file afiedt.buf

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

CLERK

ANALYST

ENAME	JOB	SAL
KING	PRESIDENT	5000
JONES	MANAGER	2975
ALLEN	SALESMAN	1600
FORD	ANALYST	3000
SCOTT	ANALYST	3000
MILLER	CLERK	1300

6 rows selected.

\_\_\_\_\_

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•

```
SOL> ED
Wrote file afiedt.buf
  1 SELECT Ename, Job, Sal
  2
    FROM Emp
  3 WHERE (Job, Sal) IN
  5
    SELECT Job, AVG(Sal)
     FROM Emp
  6
  7
     GROUP BY Job
  8*
SQL> /
ENAME
           JOB
                            SAL
                           5000
KING
           PRESIDENT
                           3000
FORD
           ANALYST
SCOTT
         ANALYST
                           3000
SQL> ED
Wrote file afiedt.buf
  1 SELECT
  2 Ename,
  3 TO_CHAR(HireDate, 'YYYY') Year,
  4
   Sal
  5 FROM Emp
  6 WHERE (TO_CHAR(HireDate, 'YYYY'), Sal) IN
  7
  8
    SELECT TO_CHAR(HireDate, 'YYYY'), MIN(Sal)
  9
     FROM Emp
     GROUP BY TO_CHAR(HireDate, 'YYYY')
 10
 11*
     )
SQL> /
ENAME
           YEAR
                       SAL
JAMES
           1981
                       950
SMITH
           1980
                       800
ADAMS
           1983
                      1100
MILLER
           1982
                      1300
SQL> ED
```

------

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```
Wrote file afiedt.buf
    SELECT
  1
    Ename,
  3
    TO_CHAR(HireDate, 'YYYY') Year,
  4
    Sal
  5 FROM Emp
  6 WHERE (TO CHAR(HireDate, 'YYYYY'), Sal) IN
  7
  8
     SELECT TO_CHAR(HireDate, 'YYYY'), MAX(Sal)
  9
     FROM Emp
 10
     GROUP BY TO_CHAR(HireDate, 'YYYY')
 11*
SQL> /
ENAME
           YEAR
                        SAL
           1981
                      5000
KING
           1980
                       800
SMITH
                      3000
SCOTT
           1982
                      1100
ADAMS
           1983
SQL> ED
Wrote file afiedt.buf
  1 SELECT
  2
   Ename,
    TO_CHAR(HireDate, 'YYYY') Year,
    TO_CHAR(HireDate, 'Month') Month,
  5
     Sal
  6
    FROM Emp
  7
    WHERE
  8
     (
  9
     TO_CHAR(HireDate, 'YYYY'),
 10
     TO_CHAR(HireDate, 'Month'),
     Sal
 11
 12
      ) IN
 13
 14
           SELECT
 15
           TO_CHAR(HireDate, 'YYYY'),
           TO_CHAR(HireDate, 'Month'),
 16
 17
           MAX(Sal)
 18
           FROM Emp
 19
           GROUP BY
```

------

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```
.....
          TO_CHAR(HireDate, 'YYYY'),
 21
          TO CHAR(HireDate, 'Month')
 22*
          )
SOL> /
ENAME
                                                        SAL
          YEAR MONTH
                                                       5000
KING
          1981 November
          1981 May
BLAKE
                                                       2850
CLARK
          1981 June
                                                        2450
          1981 April
                                                        2975
JONES
          1981 February
                                                       1600
ALLEN
          1981 September
                                                       1500
TURNER
FORD
          1981 December
                                                       3000
          1980 December
                                                        800
SMITH
          1982 December
                                                       3000
SCOTT
          1983 January
ADAMS
                                                       1100
          1982 January
                                                       1300
MILLER
11 rows selected.
SOL> cl scr
SQL> SELECT Empno, Ename, Deptno, Sal, Comm
  2 FROM Emp
  3 WHERE Comm = NULL;
no rows selected
SQL> cl scr
SQL> SELECT Empno, Ename, MGR
  2 FROM Emp
  3
    /
    EMPNO ENAME
                           MGR
     -----
     7839 KING
     7698 BLAKE
                          7839
     7782 CLARK
                          7839
     7566 JONES
                          7839
     7654 MARTIN
                          7698
     7499 ALLEN
                          7698
     7844 TURNER
                          7698
```

-----

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7900	JAMES	7698
7521	WARD	7698
7902	FORD	7566
7369	SMITH	7902
7788	SCOTT	7566
7876	ADAMS	7788
7934	MILLER	7782

14 rows selected.

SQL> SELECT DISTINCT MGR
2 FROM Emp;

MGR	
7839	
7782	
7698	
7902	
7566	
7788	

7 rows selected.

SQL> ED
Wrote file afiedt.buf

- 1 SELECT Empno, Ename, MGR
- 2 FROM Emp
- 3\* WHERE MGR IN(7839, 7782, 7698, 7902, 7566, 7788)
  SQL> /

EMPNO	ENAME	MGR
	<b></b>	
7698	BLAKE	7839
7782	CLARK	7839
7566	JONES	7839
7654	MARTIN	7698
7499	ALLEN	7698
7844	TURNER	7698
7900	JAMES	7698
7521	WARD	7698
7902	FORD	7566

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7369	SMTTH	7902
7788	SCOTT	7566
	ADAMS	7788
	MILLER	7782
1234		1102

13 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Empno, Ename, MGR
- 2 FROM Emp
- 3\* WHERE MGR IN(7839, 7782, 7698)

SQL> /

EMPNO	ENAME	MGR
7698	BLAKE	7839
7782	CLARK	7839
7566	JONES	7839
7654	MARTIN	7698
7499	ALLEN	7698
7844	TURNER	7698
7900	JAMES	7698
7521	WARD	7698
7934	MILLER	7782

9 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Empno, Ename, MGR
- 2 FROM Emp
- 3\* WHERE MGR NOT IN(7839, 7782, 7698)

SQL> /

EMPNO	ENAME	MGR
7902	FORD	7566
7369	SMITH	7902
7788	SCOTT	7566
7876	ADAMS	7788

-----

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SQL> ED

Wrote file afiedt.buf

- 1 SELECT Empno, Ename, MGR
- 2 FROM Emp
- 3\* WHERE MGR IN(7839, 7782, 7698, NULL)

SQL> /

EMPNO	ENAME	MGR
7698	BLAKE	7839
7782	CLARK	7839
7566	JONES	7839
7654	MARTIN	7698
7499	ALLEN	7698
7844	TURNER	7698
7900	JAMES	7698
7521	WARD	7698
7934	MILLER	7782

9 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Empno, Ename, MGR
- 2 FROM Emp
- 3\* WHERE MGR NOT IN(7839, 7782, 7698, NULL)

SQL> /

no rows selected

SQL> cl scr

SQL> SELECT Ename, Sal, Comm

2 FROM Emp;

ENAME	SAL	COMM
KING	5000	
BLAKE	2850	
CLARK	2450	
JONES	2975	
MARTIN	1250	1400

-----

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ALLEN	1600	300
TURNER	1500	0
JAMES	950	
WARD	1250	500
FORD	3000	
SMITH	800	
SCOTT	3000	
ADAMS	1100	
MILLER	1300	

14 rows selected.

SQL> SELECT Ename, Sal, Comm

- 2 FROM Emp
- 3 WHERE Comm IN(1400, 300, 0, 500);

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

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Ename, Sal, Comm
- 2 FROM Emp
- 3\* WHERE Comm IN(1400, 300)

SQL> /

ENAME	SAL	COMM
MARTIN	1250	1400
ALLEN	1600	300

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Ename, Sal, Comm
- 2 FROM Emp
- 3\* WHERE Comm NOT IN(1400, 300)

SQL> /

-----

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· • •

ENAME	SAL	COMM
TURNER	1500	0
WARD	1250	500

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Ename, Sal, Comm
- 2 FROM Emp
- 3\* WHERE Comm IN(1400, 300, NULL)

SQL> /

ENAME	SAL	COMM
MARTIN	1250	1400
ALLEN	1600	300

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Ename, Sal, Comm
- 2 FROM Emp
- 3\* WHERE Comm NOT IN(1400, 300, NULL)

SQL> /

no rows selected

SQL> cl scr

SQL> SELECT E.Ename

- 2 FROM Emp E
- 3 WHERE E.Empno IN
- 4
- 5 SELECT M.Mgr
- 6 FROM Emp M
- 7 );

ENAME

----

KING

BLAKE

JONES

FORD

\_\_\_\_\_

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```
SCOTT
CLARK
6 rows selected.
SOL> ED
Wrote file afiedt.buf
    SELECT E.Ename
     FROM Emp E
  3
    WHERE E.Empno NOT IN
  4
  5
     SELECT M.Mgr
  б
     FROM Emp M
  7*
SQL> /
no rows selected
SOL> ED
Wrote file afiedt.buf
  1 SELECT E.Ename
  2
    FROM Emp E
  3
     WHERE E.Empno NOT IN
  4
  5
     SELECT NVL(M.Mgr, 0)
  6
     FROM Emp M
  7*
SQL> /
ENAME
TURNER
WARD
MARTIN
ALLEN
MILLER
SMITH
ADAMS
JAMES
```

-----

8 rows selected.

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-

```
SELECT E.Ename
  2
     FROM Emp E
  3
     WHERE E.Empno NOT IN
  4
  5
      SELECT M.Mgr
      FROM Emp M
  6
  7
      WHERE MGR IS NOT NULL
  8*
      )
SQL> /
ENAME
TURNER
WARD
MARTIN
ALLEN
MILLER
SMITH
ADAMS
JAMES
8 rows selected.
SQL> cl scr
SQL> SELECT Ename, Sal, Comm
  2 FROM Emp;
ENAME
                   SAL
                              COMM
                  5000
KING
                  2850
BLAKE
CLARK
                  2450
                  2975
JONES
                              1400
MARTIN
                  1250
                               300
                  1600
ALLEN
TURNER
                  1500
                                  0
JAMES
                   950
WARD
                  1250
                               500
FORD
                  3000
                   800
SMITH
```

SQL> ED

Wrote file afiedt.buf

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SCOTT	3000
ADAMS	1100
MILLER	1300

14 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Ename, Sal, Comm
- 2 FROM Emp
- 3\* WHERE Comm IS NOT NULL

SQL> /

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

SQL> ED

Wrote file afiedt.buf

- 1 SELECT Ename, Sal, Comm
- 2 FROM Emp
- 3 WHERE Comm IN
- 1 /
- 5 SELECT Comm
- 6 FROM Emp

7\*

SQL> /

ENAME	SAL	COMM
MARTIN	1250	1400
MAKIIN	1230	1400
ALLEN	1600	300
TURNER	1500	0
WARD	1250	500

SQL> SELECT Ename, Sal, Comm

- 2 FROM Emp
- 3 WHERE Comm IS NULL
- 1

-----

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ENAMI	Ξ	SAL	COMM	
KING BLAKI CLARI JONES JAMES FORD SMITH SCOTT ADAMS	ζ 5 Η Γ	5000 2850 2450 2975 950 3000 800 3000 1100 1300		
10 rows selected.				
SQL> Wrote	ED e file afiedt	t.buf		
SQL>	ows selected	NOT IN	Comm	
1 2 3 4 5 6 7* SQL>	SELECT Ename FROM Emp WHERE Comm I ( SELECT NV FROM Emp )	NOT IN		

no rows selected

------

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SQL> ED Wrote file afiedt.buf SELECT Ename, Sal, Comm 2 FROM Emp 3 WHERE Comm NOT IN 4 5 SELECT Comm 6 FROM Emp 7 WHERE Comm IS NOT NULL 8\* SQL> / no rows selected SQL> cl scr SOL> SQL> SELECT \* 2 FROM Dept; DEPTNO DNAME LOC 10 ACCOUNTING NEW YORK 20 RESEARCH DALLAS 30 SALES CHICAGO 40 OPERATIONS BOSTON SQL> ED Wrote file afiedt.buf SELECT \* 2 FROM 3 4 SELECT 5 FROM Dept б\* SQL> LOC DEPTNO DNAME

\_\_\_\_\_

NEW YORK

DALLAS

CHICAGO

10 ACCOUNTING

20 RESEARCH

30 SALES

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..... 40 OPERATIONS BOSTON SOL> ED Wrote file afiedt.buf SELECT \* 2 FROM 3 4 SELECT Deptno, Dname 5 FROM Dept б\* ) SQL> / DEPTNO DNAME 10 ACCOUNTING 20 RESEARCH 30 SALES 40 OPERATIONS

SQL> SPOOL OFF

\_\_\_\_\_

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