```
SQL> cl scr

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

  1  (
  2  SELECT *
  3  FROM Dept
  4* )
SQL> /

    DEPTNO DNAME          LOC
---------- -------------- -------------
        10 ACCOUNTING     NEW YORK
        20 RESEARCH       DALLAS
        30 SALES          CHICAGO
        40 OPERATIONS     BOSTON

SQL> ED
Wrote file afiedt.buf

  1  (
  2  SELECT *
  3  FROM Dept
  4  ORDER BY Deptno
  5* )
SQL> /
ORDER BY Deptno
*
ERROR at line 4:
ORA-00907: missing right parenthesis


SQL> ED
Wrote file afiedt.buf
```

```
  1  (
  2  SELECT *
  3  FROM Dept
  4  )
  5* ORDER BY Deptno
SQL> /

    DEPTNO DNAME         LOC
---------- ------------- -------------
        10 ACCOUNTING    NEW YORK
        20 RESEARCH      DALLAS
        30 SALES         CHICAGO
        40 OPERATIONS    BOSTON

SQL> cl scr

SQL> SET AUTOTRACE ON EXPLAIN
SQL> SELECT Sal
  2  FROM Emp
  3  WHERE Empno = 7566;

       SAL
----------
      2975

Execution Plan
----------------------------------------------------------
Plan hash value: 2650221029


--------------------------------------------------------------------------
| Id  | Operation                    | Name            | Rows  | Bytes |
Cost (%CPU)| Time     |
--------------------------------------------------------------------------
|   0 | SELECT STATEMENT             |                 |     1 |    26 |
1   (0)| 00:00:01 |
|   1 |  TABLE ACCESS BY INDEX ROWID| EMP             |     1 |    26 |
1   (0)| 00:00:01 |
|*  2 |   INDEX UNIQUE SCAN          | EMP_PRIMARY_KEY |     1 |       |
1   (0)| 00:00:01 |
--------------------------------------------------------------------------

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


   2 - access("EMPNO"=7566)

SQL> SELECT Ename, Sal, Job
```

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```
  2  FROM Emp
  3  WHERE Sal > 2975;

ENAME              SAL JOB
---------- ---------- ---------
KING              5000 PRESIDENT
FORD              3000 ANALYST
SCOTT             3000 ANALYST

Execution Plan
----------------------------------------------------------
Plan hash value: 3956160932


---------------------------------------------------------------------------
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time     |
---------------------------------------------------------------------------
|   0 | SELECT STATEMENT   |      |     3 |    78 |     3   (0)| 00:00:01 |
|*  1 |  TABLE ACCESS FULL| EMP  |     3 |    78 |     3   (0)| 00:00:01 |
---------------------------------------------------------------------------

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

   1 - filter("SAL">2975)

Note
-----
   - dynamic sampling used for this statement (level=2)

SQL> SELECT Ename, Sal, Job
  2  FROM Emp
  3  WHERE Sal >
  4   (
  5   SELECT Sal
  6   FROM Emp
  7   WHERE Empno = 7566
  8   );

ENAME              SAL JOB
---------- ---------- ---------
KING              5000 PRESIDENT
FORD              3000 ANALYST
SCOTT             3000 ANALYST
```

```
Execution Plan
----------------------------------------------------------
Plan hash value: 828648951


--------------------------------------------------------------------
| Id  | Operation                     | Name            | Rows  | Bytes |
Cost (%CPU)| Time     |
--------------------------------------------------------------------
|   0 | SELECT STATEMENT              |                 |     1 |    26 |
4   (0)| 00:00:01 |
|*  1 |   TABLE ACCESS FULL           | EMP             |     1 |    26 |
3   (0)| 00:00:01 |
|   2 |    TABLE ACCESS BY INDEX ROWID| EMP             |     1 |    26 |
1   (0)| 00:00:01 |
|*  3 |      INDEX UNIQUE SCAN        | EMP_PRIMARY_KEY |     1 |       |
1   (0)| 00:00:01 |
--------------------------------------------------------------------

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

   1 - filter("SAL"> (SELECT "SAL" FROM "EMP" "EMP" WHERE "EMPNO"=7566))
   3 - access("EMPNO"=7566)

Note
-----
   - dynamic sampling used for this statement (level=2)

SQL> cl scr

SQL> SELECT Job
  2  FROM Emp
  3  WHERE Ename = UPPER('smith');

JOB
---------
CLERK

Execution Plan
----------------------------------------------------------
Plan hash value: 3956160932


--------------------------------------------------------------------
| Id  | Operation         | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------
```

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```
|   0 | SELECT STATEMENT   |        |     1 |     13 |     3   (0)| 00:00:01
|
|*  1 |  TABLE ACCESS FULL| EMP    |     1 |     13 |     3   (0)| 00:00:01
|
-------------------------------------------------------------------------

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

   1 - filter("ENAME"='SMITH')

Note
-----
   - dynamic sampling used for this statement (level=2)

SQL> SELECT Ename, Sal, Job
  2  FROM Emp
  3  WHERE Job = 'CLERK';

ENAME             SAL JOB
---------- ---------- ---------
JAMES             950 CLERK
SMITH             800 CLERK
ADAMS            1100 CLERK
MILLER           1300 CLERK

Execution Plan
----------------------------------------------------------
Plan hash value: 3956160932

-------------------------------------------------------------------------
| Id  | Operation        | Name | Rows  | Bytes | Cost (%CPU)| Time
|
-------------------------------------------------------------------------
|   0 | SELECT STATEMENT |      |     4 |   104 |     3   (0)| 00:00:01
|
|*  1 |  TABLE ACCESS FULL| EMP  |     4 |   104 |     3   (0)| 00:00:01
|
-------------------------------------------------------------------------

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

   1 - filter("JOB"='CLERK')

Note
-----
```

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```
    - dynamic sampling used for this statement (level=2)

SQL> SELECT Ename, Sal, Job
  2  FROM Emp
  3  WHERE Job =
  4   (
  5   SELECT Job
  6   FROM Emp
  7   WHERE Ename = UPPER('smith')
  8   )
  9  ORDER BY Sal;

ENAME            SAL JOB
---------- ---------- ---------
SMITH            800 CLERK
JAMES            950 CLERK
ADAMS           1100 CLERK
MILLER          1300 CLERK


Execution Plan
----------------------------------------------------------
Plan hash value: 1300210930


----------------------------------------------------------------------
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
----------------------------------------------------------------------
|   0 | SELECT STATEMENT     |      |     1 |    26 |     7  (15)|
00:00:01 |
|   1 |  SORT ORDER BY       |      |     1 |    26 |     7  (15)|
00:00:01 |
|*  2 |   TABLE ACCESS FULL | EMP  |     1 |    26 |     3   (0)|
00:00:01 |
|*  3 |    TABLE ACCESS FULL| EMP  |     1 |    13 |     3   (0)|
00:00:01 |
----------------------------------------------------------------------

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

   2 - filter("JOB"= (SELECT "JOB" FROM "EMP" "EMP" WHERE
             "ENAME"='SMITH'))
   3 - filter("ENAME"='SMITH')

Note
-----
```

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………

```
   - dynamic sampling used for this statement (level=2)

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Sal, Job
  2  FROM Emp
  3  WHERE Job =
  4   (
  5   SELECT Job
  6   FROM Emp
  7   WHERE Ename = UPPER('smith') AND
  8   Ename <> 'SMITH'
  9   )
 10* ORDER BY Sal
SQL> /

no rows selected

Execution Plan
----------------------------------------------------------
Plan hash value: 1723218143

-------------------------------------------------------------------------
| Id  | Operation             | Name | Rows  | Bytes | Cost (%CPU)| Time
|
-------------------------------------------------------------------------
|   0 | SELECT STATEMENT      |      |    1 |   26 |    4  (25)|
00:00:01 |
|   1 |  SORT ORDER BY        |      |    1 |   26 |    4  (25)|
00:00:01 |
|*  2 |   TABLE ACCESS FULL   | EMP  |    1 |   26 |    3   (0)|
00:00:01 |
|*  3 |    FILTER             |      |      |      |           |
|
|*  4 |     TABLE ACCESS FULL | EMP  |    1 |   13 |    3   (0)|
00:00:01 |
-------------------------------------------------------------------------

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

   2 - filter("JOB"= (SELECT "JOB" FROM "EMP" "EMP" WHERE NULL IS NOT
            NULL AND "ENAME"='SMITH' AND "ENAME"<>'SMITH'))
   3 - filter(NULL IS NOT NULL)
   4 - filter("ENAME"='SMITH' AND "ENAME"<>'SMITH')
```

```
Note
-----
   - dynamic sampling used for this statement (level=2)

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Sal, Job
  2   FROM Emp
  3   WHERE Job =
  4    (
  5    SELECT Job
  6    FROM Emp
  7    WHERE Ename = UPPER('smith')
  8    ) AND
  9   Ename <> 'SMITH'
 10*  ORDER BY Sal
SQL> /

ENAME              SAL JOB
---------- ---------- ---------
JAMES              950 CLERK
ADAMS             1100 CLERK
MILLER            1300 CLERK


Execution Plan
----------------------------------------------------------
Plan hash value: 1300210930

--------------------------------------------------------------------------
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
|   0 | SELECT STATEMENT   |      |   1 |   26 |   7  (15)|
00:00:01 |
|   1 |  SORT ORDER BY     |      |   1 |   26 |   7  (15)|
00:00:01 |
|*  2 |   TABLE ACCESS FULL | EMP |   1 |   26 |   3   (0)|
00:00:01 |
|*  3 |    TABLE ACCESS FULL| EMP |   1 |   13 |   3   (0)|
00:00:01 |
--------------------------------------------------------------------------

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

--

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```
      2 - filter("ENAME"<>'SMITH' AND "JOB"= (SELECT "JOB" FROM "EMP"
                "EMP" WHERE "ENAME"='SMITH'))
      3 - filter("ENAME"='SMITH')

Note
-----
   - dynamic sampling used for this statement (level=2)

SQL> cl scr

SQL> SELECT Empno, Ename, Hiredate, Sal
  2  FROM Emp
  3  WHERE Hiredate >
  4   (
  5   SELECT Hiredate
  6   FROM Emp
  7   WHERE Ename = 'TURNER'
  8   )
  9  ORDER BY Sal;

     EMPNO ENAME       HIREDATE         SAL
---------- ---------- --------- ----------
      7900 JAMES      03-DEC-81        950
      7876 ADAMS      12-JAN-83       1100
      7654 MARTIN     28-SEP-81       1250
      7934 MILLER     23-JAN-82       1300
      7788 SCOTT      09-DEC-82       3000
      7902 FORD       03-DEC-81       3000
      7839 KING       17-NOV-81       5000

7 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 1300210930

---------------------------------------------------------------------------
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time     |
---------------------------------------------------------------------------
|   0 | SELECT STATEMENT   |      |     1 |    42 |     7  (15)|
00:00:01 |
|   1 |  SORT ORDER BY     |      |     1 |    42 |     7  (15)|
00:00:01 |
|*  2 |   TABLE ACCESS FULL | EMP  |     1 |    42 |     3   (0)|
00:00:01 |
---------------------------------------------------------------------------
```

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```
|*  3 |    TABLE ACCESS FULL| EMP  |     1 |    16 |     3   (0)|
00:00:01 |
-------------------------------------------------------------------------

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

   2 - filter("HIREDATE"> (SELECT "HIREDATE" FROM "EMP" "EMP" WHERE
              "ENAME"='TURNER'))
   3 - filter("ENAME"='TURNER')

Note
-----
   - dynamic sampling used for this statement (level=2)

SQL> ED
Wrote file afiedt.buf

  1   SELECT Empno, Ename, Hiredate, Sal
  2   FROM Emp
  3   WHERE Hiredate <
  4    (
  5    SELECT Hiredate
  6    FROM Emp
  7    WHERE Ename = 'TURNER'
  8    )
  9* ORDER BY Sal
SQL> /

     EMPNO ENAME      HIREDATE        SAL
---------- ---------- --------- ----------
      7369 SMITH      17-DEC-80        800
      7521 WARD       22-FEB-81       1250
      7499 ALLEN      20-FEB-81       1600
      7782 CLARK      09-JUN-81       2450
      7698 BLAKE      01-MAY-81       2850
      7566 JONES      02-APR-81       2975

6 rows selected.

Execution Plan
-----------------------------------------------------------
Plan hash value: 1300210930

-------------------------------------------------------------------------
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
-------------------------------------------------------------------------
```

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```
-------------------------------------------------------------------------
|   0 | SELECT STATEMENT     |       |   1 |    42 |    7  (15)|
00:00:01 |
|   1 |  SORT ORDER BY       |       |   1 |    42 |    7  (15)|
00:00:01 |
|*  2 |   TABLE ACCESS FULL | EMP   |   1 |    42 |    3   (0)|
00:00:01 |
|*  3 |    TABLE ACCESS FULL| EMP   |   1 |    16 |    3   (0)|
00:00:01 |
-------------------------------------------------------------------------

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

   2 - filter("HIREDATE"< (SELECT "HIREDATE" FROM "EMP" "EMP" WHERE
             "ENAME"='TURNER'))
   3 - filter("ENAME"='TURNER')

Note
-----
   - dynamic sampling used for this statement (level=2)

SQL> cl scr

SQL> SELECT Empno, Ename, Sal, Job
  2  FROM Emp
  3  WHERE Deptno =
  4   (
  5   SELECT Deptno
  6   FROM Dept
  7   WHERE Dname = 'SALES'
  8   );

     EMPNO ENAME           SAL JOB
---------- ---------- ---------- ---------
      7698 BLAKE          2850 MANAGER
      7654 MARTIN         1250 SALESMAN
      7499 ALLEN          1600 SALESMAN
      7844 TURNER         1500 SALESMAN
      7900 JAMES           950 CLERK
      7521 WARD           1250 SALESMAN

6 rows selected.

Execution Plan
----------------------------------------------------------
Plan hash value: 2858400319
```

```
---------------------------------------------------------------------
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time     |
---------------------------------------------------------------------
|   0 | SELECT STATEMENT    |      |    1 |    52 |     6    (0)| 00:00:01 |
|*  1 |   TABLE ACCESS FULL | EMP  |    1 |    52 |     3    (0)| 00:00:01 |
|*  2 |    TABLE ACCESS FULL| DEPT |    1 |    22 |     3    (0)| 00:00:01 |
---------------------------------------------------------------------

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

   1 - filter("DEPTNO"= (SELECT "DEPTNO" FROM "DEPT" "DEPT" WHERE
               "DNAME"='SALES'))
   2 - filter("DNAME"='SALES')

Note
-----
   - dynamic sampling used for this statement (level=2)

SQL> SPOOL OFF
```

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