```
SQL> cl scr

SQL> SELECT Ename
  2  FROM Emp
  3  WHERE Deptno = 10
  4  UNION
  5  SELECT Dname
  6  FROM Dept
  7  WHERE Deptno = 10;

ENAME
-------------
ACCOUNTING
CLARK
KING
MILLER


Execution Plan
----------------------------------------------------------
Plan hash value: 59031007

--------------------------------------------------------------------------
--------------------------
| Id | Operation                   | Name             | Rows | Bytes
| Cost (%CPU)| Time      |
--------------------------------------------------------------------------
--------------------------
|   0 | SELECT STATEMENT            |                  |    4 |   82
|    6  (50)| 00:00:01 |
|   1 |  SORT UNIQUE                |                  |    4 |   82
|    6  (50)| 00:00:01 |
|   2 |   UNION-ALL                 |                  |      |
|             |           |
|*  3 |    TABLE ACCESS FULL        | EMP              |    3 |   60
|    3   (0)| 00:00:01 |
|   4 |    TABLE ACCESS BY INDEX ROWID| DEPT           |    1 |   22
|    1   (0)| 00:00:01 |
|*  5 |     INDEX UNIQUE SCAN       | DEPT_PRIMARY_KEY |    1 |
|    1   (0)| 00:00:01 |
--------------------------------------------------------------------------
--------------------------

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

   3 - filter("DEPTNO"=10)
```

```
    5 - access("DEPTNO"=10)

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Dname
  2   FROM Emp, Dept
  3*  WHERE Emp.Deptno = Dept.Deptno
SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename, Dname
  2   FROM Emp, Dept
  3*  WHERE Emp.Deptno = Dept.Deptno AND Dept.Deptno = 10
SQL> /

ENAME        DNAME
----------   --------------
KING         ACCOUNTING
CLARK        ACCOUNTING
MILLER       ACCOUNTING


Execution Plan
----------------------------------------------------------
Plan hash value: 1567168462


---------------------------------------------------------------------------
-----------------------
| Id  | Operation                   | Name            | Rows  | Bytes |
Cost (%CPU)| Time     |
---------------------------------------------------------------------------
-----------------------
|   0 | SELECT STATEMENT            |                 |     3 |   126 |
4   (0)| 00:00:01 |
|   1 |  NESTED LOOPS               |                 |     3 |   126 |
4   (0)| 00:00:01 |
|   2 |   TABLE ACCESS BY INDEX ROWID| DEPT           |     1 |    22 |
1   (0)| 00:00:01 |
|*  3 |    INDEX UNIQUE SCAN        | DEPT_PRIMARY_KEY |     1 |       |
1   (0)| 00:00:01 |
|*  4 |   TABLE ACCESS FULL         | EMP             |     3 |    60 |
3   (0)| 00:00:01 |


---------------------------------------------------------------------------
```

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```
---------------------------------------------------------------------
-----------------------

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

   3 - access("DEPT"."DEPTNO"=10)
   4 - filter("EMP"."DEPTNO"=10)

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename
  2   FROM Emp
  3   UNION
  4   SELECT Dname
  5*  FROM Dept
SQL> /

ENAME
--------------
ACCOUNTING
ADAMS
ALLEN
BLAKE
CLARK
FORD
JAMES
JONES
KING
MARTIN
MILLER
OPERATIONS
RESEARCH
SALES
SCOTT
SMITH
TURNER

ENAME
--------------
WARD
```

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```
18 rows selected.


Execution Plan
-------------------------------------------------------------
Plan hash value: 2375100902

----------------------------------------------------------------------------
---
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
----------------------------------------------------------------------------
---
|   0 | SELECT STATEMENT    |      |    18 |   134 |     8  (63)|
00:00:01 |
|   1 |  SORT UNIQUE        |      |    18 |   134 |     8  (63)|
00:00:01 |
|   2 |   UNION-ALL         |      |       |       |            |
|
|   3 |    TABLE ACCESS FULL| EMP  |    14 |    98 |     3   (0)|
00:00:01 |
|   4 |    TABLE ACCESS FULL| DEPT |     4 |    36 |     3   (0)|
00:00:01 |
----------------------------------------------------------------------------
---

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

SQL> cl scr

SQL> SELECT Job
  2  FROM Emp
  3  WHERE Deptno = 10
  4  UNION
  5  SELECT Job
  6  FROM Emp
  7  WHERE Deptno = 30;

JOB
---------
CLERK
MANAGER
PRESIDENT
SALESMAN
```

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```
Execution Plan
-----------------------------------------------------------
Plan hash value: 3774834881

------------------------------------------------------------------
---
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
------------------------------------------------------------------
---
|   0 | SELECT STATEMENT     |      |     9 |   171 |     8  (63)|
00:00:01 |
|   1 |  SORT UNIQUE         |      |     9 |   171 |     8  (63)|
00:00:01 |
|   2 |   UNION-ALL          |      |       |       |            |
|
|*  3 |    TABLE ACCESS FULL| EMP  |     3 |    57 |     3   (0)|
00:00:01 |
|*  4 |    TABLE ACCESS FULL| EMP  |     6 |   114 |     3   (0)|
00:00:01 |
------------------------------------------------------------------
---

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

   3 - filter("DEPTNO"=10)
   4 - filter("DEPTNO"=30)

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT DISTINCT Job
  2   FROM Emp
  3*  WHERE Deptno IN(10, 30)
SQL> /

JOB
---------
SALESMAN
CLERK
PRESIDENT
```

```
MANAGER


Execution Plan
----------------------------------------------------------
Plan hash value: 3709190377

------------------------------------------------------------------------
--
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT    |      |     9 |   171 |     4  (25)| 00:00:01
|
|   1 |  HASH UNIQUE        |      |     9 |   171 |     4  (25)| 00:00:01
|
|*  2 |   TABLE ACCESS FULL | EMP  |     9 |   171 |     3   (0)| 00:00:01
|
------------------------------------------------------------------------
--

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

   2 - filter("DEPTNO"=10 OR "DEPTNO"=30)

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Job
  2   FROM Emp
  3   WHERE Deptno = 10
  4   UNION ALL
  5   SELECT Job
  6   FROM Emp
  7*  WHERE Deptno = 30
SQL> /

JOB
---------
PRESIDENT
MANAGER
```

```
CLERK
MANAGER
SALESMAN
SALESMAN
SALESMAN
CLERK
SALESMAN

9 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 1301082189

--------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |     9 |   171 |     6  (50)| 00:00:01
|
|   1 |   UNION-ALL        |      |       |       |            |
|
|*  2 |    TABLE ACCESS FULL| EMP  |     3 |    57 |     3   (0)| 00:00:01
|
|*  3 |    TABLE ACCESS FULL| EMP  |     6 |   114 |     3   (0)| 00:00:01
|
--------------------------------------------------------------------
--

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

   2 - filter("DEPTNO"=10)
   3 - filter("DEPTNO"=30)

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Job
  2   FROM Emp
```

```
   3* WHERE Deptno IN(10, 30)
SQL> /

JOB
---------
PRESIDENT
MANAGER
MANAGER
SALESMAN
SALESMAN
SALESMAN
CLERK
SALESMAN
CLERK

9 rows selected.


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

-------------------------------------------------------------------
-
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
-------------------------------------------------------------------
-
|   0 | SELECT STATEMENT   |      |     9 |   171 |     3   (0)| 00:00:01
|
|*  1 |  TABLE ACCESS FULL| EMP  |     9 |   171 |     3   (0)| 00:00:01
|
-------------------------------------------------------------------
-

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

   1 - filter("DEPTNO"=10 OR "DEPTNO"=30)

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

SQL> ED
Wrote file afiedt.buf
```

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```
    1   SELECT DISTINCT Job
    2   FROM
    3    (
    4    SELECT Job
    5    FROM Emp
    6    WHERE Deptno = 10
    7    UNION ALL
    8    SELECT Job
    9    FROM Emp
   10    WHERE Deptno = 30
   11*   )
SQL> /

JOB
---------
CLERK
SALESMAN
PRESIDENT
MANAGER


Execution Plan
----------------------------------------------------------
Plan hash value: 1460831672

----------------------------------------------------------------------------
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time    |
----------------------------------------------------------------------------
|   0 | SELECT STATEMENT     |      |    9  |   54  |    7  (15)| 00:00:01 |
|   1 |  HASH UNIQUE         |      |    9  |   54  |    7  (15)| 00:00:01 |
|   2 |   VIEW               |      |    9  |   54  |    6   (0)| 00:00:01 |
|   3 |    UNION-ALL         |      |       |       |           |          |
|*  4 |     TABLE ACCESS FULL| EMP  |    3  |   57  |    3   (0)| 00:00:01 |
|*  5 |     TABLE ACCESS FULL| EMP  |    6  |  114  |    3   (0)| 00:00:01 |
----------------------------------------------------------------------------

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

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```
----------------------------------------------------

   4 - filter("DEPTNO"=10)
   5 - filter("DEPTNO"=30)

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

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

  1   SELECT Job
  2   FROM Emp
  3   WHERE Deptno = 10
  4   INTERSECT
  5   SELECT Job
  6   FROM Emp
  7*  WHERE Deptno = 30
SQL> /

JOB
---------
CLERK
MANAGER


Execution Plan
----------------------------------------------------------
Plan hash value: 3689394479


---------------------------------------------------------------------------
---
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
---------------------------------------------------------------------------
---
|   0 | SELECT STATEMENT    |      |     3 |   171 |     8  (63)|
00:00:01 |
|   1 |  INTERSECTION       |      |       |       |            |
|
|   2 |   SORT UNIQUE       |      |     3 |    57 |     4  (25)|
00:00:01 |
|*  3 |    TABLE ACCESS FULL| EMP  |     3 |    57 |     3   (0)|
00:00:01 |

----------------------------------------------------------------------------
```

```
|   4 |   SORT UNIQUE      |      |    6 |   114 |    4  (25)|
00:00:01 |
|*  5 |    TABLE ACCESS FULL| EMP |    6 |   114 |    3   (0)|
00:00:01 |
--------------------------------------------------------------------------
---

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

   3 - filter("DEPTNO"=10)
   5 - filter("DEPTNO"=30)

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Job
  2   FROM Emp
  3   WHERE Deptno = 10
  4   MINUS
  5   SELECT Job
  6   FROM Emp
  7*  WHERE Deptno = 30
SQL> /

JOB
---------
PRESIDENT


Execution Plan
----------------------------------------------------------
Plan hash value: 3686975449

--------------------------------------------------------------------------
---
| Id | Operation         | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
---
|   0 | SELECT STATEMENT  |      |    3 |   171 |    8  (63)|
00:00:01 |
```

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```
|   1 |  MINUS                 |       |       |       |         |        |
|
|   2 |   SORT UNIQUE          |       |     3 |    57 |     4  (25)|
00:00:01 |
|*  3 |    TABLE ACCESS FULL| EMP    |     3 |    57 |     3   (0)|
00:00:01 |
|   4 |   SORT UNIQUE          |       |     6 |   114 |     4  (25)|
00:00:01 |
|*  5 |    TABLE ACCESS FULL| EMP    |     6 |   114 |     3   (0)|
00:00:01 |
--------------------------------------------------------------------------
---

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

   3 - filter("DEPTNO"=10)
   5 - filter("DEPTNO"=30)

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

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

  1  SELECT Job
  2  FROM Emp
  3  WHERE Deptno = 10
  4  UNION
  5  SELECT Job
  6  FROM Emp
  7  WHERE Deptno = 30
  8  INTERSECT
  9  SELECT Job
 10  FROM Emp
 11* WHERE Deptno = 20
SQL> /

JOB
---------
CLERK
MANAGER
```

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```
Execution Plan
----------------------------------------------------------
Plan hash value: 3563617024

--------------------------------------------------------------------------
----
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT     |      |     5 |   266 |    12  (75)|
00:00:01 |
|   1 |  INTERSECTION        |      |       |       |            |
|
|   2 |   SORT UNIQUE        |      |     5 |   266 |    12  (75)|
00:00:01 |
|   3 |    UNION-ALL         |      |       |       |            |
|
|*  4 |     TABLE ACCESS FULL| EMP  |     3 |    57 |     3   (0)|
00:00:01 |
|*  5 |     TABLE ACCESS FULL| EMP  |     6 |   114 |     3   (0)|
00:00:01 |
|   6 |   SORT UNIQUE        |      |     5 |    95 |     4  (25)|
00:00:01 |
|*  7 |    TABLE ACCESS FULL | EMP  |     5 |    95 |     3   (0)|
00:00:01 |
--------------------------------------------------------------------------
----

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

   4 - filter("DEPTNO"=10)
   5 - filter("DEPTNO"=30)
   7 - filter("DEPTNO"=20)

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Job
  2   FROM Emp
  3   WHERE Deptno = 10
  4   UNION
```

```
  5   (
  6    SELECT Job
  7    FROM Emp
  8    WHERE Deptno = 30
  9    INTERSECT
 10    SELECT Job
 11    FROM Emp
 12    WHERE Deptno = 20
 13*  )
SQL> /

JOB
---------
CLERK
MANAGER
PRESIDENT


Execution Plan
----------------------------------------------------------
Plan hash value: 785578627

------------------------------------------------------------------------
-----
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
------------------------------------------------------------------------
-----
|   0 | SELECT STATEMENT     |      |     8 |   266 |    12  (75)|
00:00:01 |
|   1 |  SORT UNIQUE         |      |     8 |   266 |    12  (75)|
00:00:01 |
|   2 |   UNION-ALL          |      |       |       |            |
|
|*  3 |    TABLE ACCESS FULL | EMP  |     3 |    57 |     3   (0)|
00:00:01 |
|   4 |    INTERSECTION      |      |       |       |            |
|
|   5 |     SORT UNIQUE      |      |     6 |   114 |     4  (25)|
00:00:01 |
|*  6 |      TABLE ACCESS FULL| EMP |     6 |   114 |     3   (0)|
00:00:01 |
|   7 |     SORT UNIQUE      |      |     5 |    95 |     4  (25)|
00:00:01 |
|*  8 |      TABLE ACCESS FULL| EMP |     5 |    95 |     3   (0)|
00:00:01 |
```

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```
-------------------------------------------------------------------------
-----

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

   3 - filter("DEPTNO"=10)
   6 - filter("DEPTNO"=30)
   8 - filter("DEPTNO"=20)

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

SQL> cl scr

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

    DEPTNO     SALSUM
---------- ----------
        30       9400
        20      10875
        10       8750


Execution Plan
----------------------------------------------------------
Plan hash value: 4067220884


-------------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
-------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |    14 |   364 |     4  (25)| 00:00:01
|
|   1 |  HASH GROUP BY     |      |    14 |   364 |     4  (25)| 00:00:01
|
|   2 |   TABLE ACCESS FULL| EMP  |    14 |   364 |     3   (0)| 00:00:01
|
-------------------------------------------------------------------------
--

Note
```

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

SQL> SELECT SUM(Sal) OrgSal
  2  FROM Emp;

    ORGSAL
----------
     29025


Execution Plan
----------------------------------------------------------
Plan hash value: 2083865914

----------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
----------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |     1 |    13 |     3   (0)| 00:00:01
|
|   1 |  SORT AGGREGATE    |      |     1 |    13 |            |
|
|   2 |   TABLE ACCESS FULL| EMP  |    14 |   182 |     3   (0)| 00:00:01
|
----------------------------------------------------------------------
--

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, SUM(Sal) SalSum, OrgSal
  2  FROM Emp,
  3  (
  4   SELECT SUM(Sal) OrgSal
  5   FROM Emp
  6  )
  7* GROUP BY Deptno, OrgSal
SQL> /

    DEPTNO     SALSUM     ORGSAL
```

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```
          ---------- ---------- ----------
                  10       8750      29025
                  20      10875      29025
                  30       9400      29025


Execution Plan
----------------------------------------------------------
Plan hash value: 3003679369

------------------------------------------------------------------------
-----
| Id  | Operation             | Name | Rows  | Bytes | Cost (%CPU)| Time
|
------------------------------------------------------------------------
-----
|   0 | SELECT STATEMENT       |      |    14 |   546 |     7  (15)|
00:00:01 |
|   1 |  HASH GROUP BY         |      |    14 |   546 |     7  (15)|
00:00:01 |
|   2 |   NESTED LOOPS         |      |    14 |   546 |     6   (0)|
00:00:01 |
|   3 |    VIEW                |      |     1 |    13 |     3   (0)|
00:00:01 |
|   4 |     SORT AGGREGATE     |      |     1 |    13 |            |
|
|   5 |      TABLE ACCESS FULL| EMP  |    14 |   182 |     3   (0)|
00:00:01 |
|   6 |    TABLE ACCESS FULL   | EMP  |    14 |   364 |     3   (0)|
00:00:01 |
------------------------------------------------------------------------
-----

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Deptno, SUM(Sal) SalSum,
  2    (
  3    SELECT SUM(Sal)
  4    FROM Emp
  5    ) OrgSal
  6   FROM Emp
  7*  GROUP BY Deptno
```

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```
SQL> /

    DEPTNO     SALSUM     ORGSAL
---------- ---------- ----------
        30       9400      29025
        20      10875      29025
        10       8750      29025


Execution Plan
----------------------------------------------------------
Plan hash value: 2065184867

------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |    14 |   364 |     4  (25)| 00:00:01
|
|   1 |  SORT AGGREGATE    |      |     1 |    13 |            |
|
|   2 |   TABLE ACCESS FULL| EMP  |    14 |   182 |     3   (0)| 00:00:01
|
|   3 |  HASH GROUP BY     |      |    14 |   364 |     4  (25)| 00:00:01
|
|   4 |   TABLE ACCESS FULL| EMP  |    14 |   364 |     3   (0)| 00:00:01
|
------------------------------------------------------------------
--

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, SUM(Sal) SalSum
  2  FROM Emp
  3  GROUP BY Deptno
  4  UNION
  5  SELECT SUM(Sal)
  6* FROM Emp
SQL> /
SELECT Deptno, SUM(Sal) SalSum
```

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```
*
ERROR at line 1:
ORA-01789: query block has incorrect number of result columns


SQL> ED
Wrote file afiedt.buf

  1   SELECT Deptno, SUM(Sal) SalSum
  2   FROM Emp
  3   GROUP BY Deptno
  4   UNION
  5   SELECT NULL, SUM(Sal)
  6*  FROM Emp
SQL> /

    DEPTNO     SALSUM
---------- ----------
        10       8750
        20      10875
        30       9400
                29025


Execution Plan
----------------------------------------------------------
Plan hash value: 768573151

--------------------------------------------------------------------------
----
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT     |      |    15 |   377 |     9  (67)|
00:00:01 |
|   1 |  SORT UNIQUE         |      |    15 |   377 |     9  (67)|
00:00:01 |
|   2 |   UNION-ALL          |      |       |       |            |
|
|   3 |    HASH GROUP BY     |      |    14 |   364 |     5  (40)|
00:00:01 |
|   4 |     TABLE ACCESS FULL| EMP  |    14 |   364 |     3   (0)|
00:00:01 |
|   5 |    SORT AGGREGATE    |      |     1 |    13 |     4  (25)|
00:00:01 |
```

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………

```
|   6 |     TABLE ACCESS FULL| EMP  |    14 |    182 |     3   (0)|
00:00:01 |
-------------------------------------------------------------------------
----

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

SQL> SELECT Dname
  2  FROM Dept
  3  WHERE Deptno = 10
  4  UNION
  5  SELECT Ename, Job, Sal
  6  FROM Emp
  7  WHERE Deptno = 10;
SELECT Dname
*
ERROR at line 1:
ORA-01789: query block has incorrect number of result columns


SQL> ED
Wrote file afiedt.buf

  1  SELECT Dname, NULL Ename, NULL Job, NULL Sal
  2  FROM Dept
  3  WHERE Deptno = 10
  4  UNION
  5  SELECT NULL, Ename, Job, Sal
  6  FROM Emp
  7* WHERE Deptno = 10
SQL> /

DNAME            ENAME       JOB         SAL
--------------------- ---------- --------- ----------
ACCOUNTING
                 CLARK       MANAGER        2450
                 KING        PRESIDENT      5000
                 MILLER      CLERK          1300


Execution Plan
-----------------------------------------------------------
Plan hash value: 2936292807
```

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```
-----------------------------------------------------------------------
--------------------------
| Id  | Operation                   | Name             | Rows | Bytes
| Cost (%CPU)| Time      |
-----------------------------------------------------------------------
--------------------------
|   0 | SELECT STATEMENT            |                  |    4 |  139
|     6  (84)| 00:00:01 |
|   1 |  SORT UNIQUE                |                  |    4 |  139
|     6  (84)| 00:00:01 |
|   2 |   UNION-ALL                 |                  |      |
|     |            |           |
|   3 |    TABLE ACCESS BY INDEX ROWID| DEPT           |    1 |   22
|     1   (0)| 00:00:01 |
|*  4 |     INDEX UNIQUE SCAN       | DEPT_PRIMARY_KEY |    1 |
|     1   (0)| 00:00:01 |
|*  5 |     TABLE ACCESS FULL       | EMP              |    3 |  117
|     3   (0)| 00:00:01 |
-----------------------------------------------------------------------
--------------------------

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

   4 - access("DEPTNO"=10)
   5 - filter("DEPTNO"=10)

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Dname, NULL Ename, NULL Job, NULL Sal
  2  FROM Dept
  3  WHERE Deptno = 10
  4  UNION
  5  SELECT NULL, Ename, Job, Sal
  6  FROM Emp
  7  WHERE Deptno = 10
  8  UNION
  9  SELECT NULL, NULL, NULL, SUM(Sal)
 10  FROM Emp
 11* WHERE Deptno = 10
SQL> /
```

```
DNAME          ENAME      JOB       SAL
-------------- ---------- --------- ----------
ACCOUNTING
               CLARK      MANAGER      2450
               KING       PRESIDENT    5000
               MILLER     CLERK        1300
                                       8750


Execution Plan
----------------------------------------------------------
Plan hash value: 1118198403

---------------------------------------------------------------------
-------------------------
| Id  | Operation                   | Name            | Rows  | Bytes
| Cost (%CPU)| Time     |
---------------------------------------------------------------------
-------------------------
|   0 | SELECT STATEMENT            |                 |     5 |   165
|    10  (90)| 00:00:01 |
|   1 |  SORT UNIQUE                |                 |     5 |   165
|    10  (90)| 00:00:01 |
|   2 |   UNION-ALL                 |                 |       |
|     |            |          |
|   3 |    TABLE ACCESS BY INDEX ROWID| DEPT          |     1 |    22
|     1   (0)| 00:00:01 |
|*  4 |     INDEX UNIQUE SCAN       | DEPT_PRIMARY_KEY |     1 |
|     1   (0)| 00:00:01 |
|*  5 |    TABLE ACCESS FULL        | EMP             |     3 |   117
|     3   (0)| 00:00:01 |
|   6 |     SORT AGGREGATE          |                 |     1 |    26
|     4  (25)| 00:00:01 |
|*  7 |      TABLE ACCESS FULL      | EMP             |     3 |    78
|     3   (0)| 00:00:01 |
---------------------------------------------------------------------
-------------------------

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

   4 - access("DEPTNO"=10)
   5 - filter("DEPTNO"=10)
   7 - filter("DEPTNO"=10)

Note
-----
```

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

SQL> cl scr

SQL> SELECT Ename, Sal
  2  FROM Emp;

ENAME             SAL
---------- ----------
KING             5000
BLAKE            2850
CLARK            2450
JONES            2975
MARTIN           1250
ALLEN            1600
TURNER           1500
JAMES             950
WARD             1250
FORD             3000
SMITH             800
SCOTT            3000
ADAMS            1100
MILLER           1300

14 rows selected.


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

-----------------------------------------------------------------------------
-
| Id  | Operation         | Name | Rows  | Bytes | Cost (%CPU)| Time
|
-----------------------------------------------------------------------------
-
|   0 | SELECT STATEMENT  |      |    14 |   280 |     3   (0)| 00:00:01
|
|   1 |  TABLE ACCESS FULL| EMP  |    14 |   280 |     3   (0)| 00:00:01
|
-----------------------------------------------------------------------------
-

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

--
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```
SQL> SELECT SUM(Sal) FROM Emp;

  SUM(SAL)
----------
     29025


Execution Plan
----------------------------------------------------------
Plan hash value: 2083865914

--------------------------------------------------------------------
--
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------
--
|   0 | SELECT STATEMENT    |      |     1 |    13 |     3   (0)| 00:00:01
|
|   1 |  SORT AGGREGATE     |      |     1 |    13 |            |
|
|   2 |   TABLE ACCESS FULL| EMP  |    14 |   182 |     3   (0)| 00:00:01
|
--------------------------------------------------------------------
--

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Sal
  2  FROM Emp
  3  UNION
  4  SELECT NULL,  SUM(Sal)
  5* FROM Emp
SQL> /

ENAME           SAL
---------- ----------
ADAMS          1100
ALLEN          1600
BLAKE          2850
CLARK          2450
```

```
FORD            3000
JAMES            950
JONES           2975
KING            5000
MARTIN          1250
MILLER          1300
SCOTT           3000
SMITH            800
TURNER          1500
WARD            1250
               29025

15 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 1936257533

--------------------------------------------------------------------------
----
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT     |      |    15 |   293 |     8  (63)|
00:00:01 |
|   1 |  SORT UNIQUE         |      |    15 |   293 |     8  (63)|
00:00:01 |
|   2 |   UNION-ALL          |      |       |       |            |
|
|   3 |    TABLE ACCESS FULL | EMP  |    14 |   280 |     3   (0)|
00:00:01 |
|   4 |    SORT AGGREGATE     |      |     1 |    13 |     4  (25)|
00:00:01 |
|   5 |     TABLE ACCESS FULL| EMP  |    14 |   182 |     3   (0)|
00:00:01 |
--------------------------------------------------------------------------
----

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

SQL> cl scr

SQL> SELECT Deptno, Job, SUM(Sal) SalSum
```

```
  2  FROM Emp
  3  GROUP BY Deptno, Job
  4  ORDER BY Deptno;

    DEPTNO JOB             SALSUM
---------- --------- ----------
        10 CLERK           1300
        10 MANAGER         2450
        10 PRESIDENT       5000
        20 ANALYST         6000
        20 CLERK           1900
        20 MANAGER         2975
        30 CLERK            950
        30 MANAGER         2850
        30 SALESMAN        5600

9 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 15469362

------------------------------------------------------------------------
--
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT    |      |    14 |   448 |     4  (25)| 00:00:01
|
|   1 |  SORT GROUP BY      |      |    14 |   448 |     4  (25)| 00:00:01
|
|   2 |   TABLE ACCESS FULL | EMP  |    14 |   448 |     3   (0)| 00:00:01
|
------------------------------------------------------------------------
--

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

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

    DEPTNO    SALSUM
```

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```
---------- ----------
        30       9400
        20      10875
        10       8750


Execution Plan
----------------------------------------------------------
Plan hash value: 4067220884

--------------------------------------------------------------------------
--
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT     |      |    14 |   364 |     4  (25)| 00:00:01
|
|   1 |  HASH GROUP BY       |      |    14 |   364 |     4  (25)| 00:00:01
|
|   2 |   TABLE ACCESS FULL| EMP  |    14 |   364 |     3   (0)| 00:00:01
|
--------------------------------------------------------------------------
--

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

SQL> ED
Wrote file afiedt.buf

  1   SELECT Deptno, Job, SUM(Sal) SalSum
  2   FROM Emp
  3   GROUP BY Deptno, Job
  4   UNION
  5   SELECT Deptno, NULL, SUM(Sal)
  6   FROM Emp
  7*  GROUP BY Deptno
SQL> /

    DEPTNO JOB         SALSUM
---------- --------- ----------
        10 CLERK         1300
        10 MANAGER       2450
        10 PRESIDENT     5000
        10               8750
```

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```
          20 ANALYST          6000
          20 CLERK            1900
          20 MANAGER          2975
          20                 10875
          30 CLERK             950
          30 MANAGER          2850
          30 SALESMAN         5600
          30                  9400

12 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 961949858

--------------------------------------------------------------------
----
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------
----
|   0 | SELECT STATEMENT     |      |    28 |   812 |   10  (70)|
00:00:01 |
|   1 |  SORT UNIQUE         |      |    28 |   812 |   10  (70)|
00:00:01 |
|   2 |   UNION-ALL          |      |       |       |           |
|
|   3 |    HASH GROUP BY     |      |    14 |   448 |    5  (40)|
00:00:01 |
|   4 |     TABLE ACCESS FULL| EMP  |    14 |   448 |    3   (0)|
00:00:01 |
|   5 |    HASH GROUP BY     |      |    14 |   364 |    5  (40)|
00:00:01 |
|   6 |     TABLE ACCESS FULL| EMP  |    14 |   364 |    3   (0)|
00:00:01 |
--------------------------------------------------------------------
----

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, Job, SUM(Sal) SalSum
```

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```
  2   FROM Emp
  3   GROUP BY Deptno, Job
  4   UNION
  5   SELECT Deptno, NULL, SUM(Sal)
  6   FROM Emp
  7   GROUP BY Deptno
  8   UNION
  9   SELECT NULL, NULL, SUM(Sal)
 10*  FROM Emp
SQL> /

    DEPTNO JOB          SALSUM
---------- --------- ----------
        10 CLERK          1300
        10 MANAGER        2450
        10 PRESIDENT      5000
        10                8750
        20 ANALYST        6000
        20 CLERK          1900
        20 MANAGER        2975
        20               10875
        30 CLERK           950
        30 MANAGER        2850
        30 SALESMAN       5600
        30                9400
                         29025

13 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3412076862


--------------------------------------------------------------------------
----
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT     |      |    29 |   825 |    14  (79)|
00:00:01 |
|   1 |  SORT UNIQUE         |      |    29 |   825 |    14  (79)|
00:00:01 |
|   2 |   UNION-ALL          |      |       |       |       |         |
|
```

```
|   3 |      HASH GROUP BY     |        |    14 |   448 |     5  (40)|
00:00:01 |
|   4 |       TABLE ACCESS FULL| EMP    |    14 |   448 |     3   (0)|
00:00:01 |
|   5 |      HASH GROUP BY     |        |    14 |   364 |     5  (40)|
00:00:01 |
|   6 |       TABLE ACCESS FULL| EMP    |    14 |   364 |     3   (0)|
00:00:01 |
|   7 |      SORT AGGREGATE    |        |     1 |    13 |     4  (25)|
00:00:01 |
|   8 |       TABLE ACCESS FULL| EMP    |    14 |   182 |     3   (0)|
00:00:01 |
------------------------------------------------------------------------
----

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

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

    DEPTNO   SUM(SAL)
---------- ----------
        30       9400
        20      10875
        10       8750


Execution Plan
----------------------------------------------------------
Plan hash value: 4067220884

--------------------------------------------------------------------------
--
| Id  | Operation              | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT       |      |    14 |   364 |     4  (25)| 00:00:01
|
|   1 |  HASH GROUP BY         |      |    14 |   364 |     4  (25)| 00:00:01
|
|   2 |   TABLE ACCESS FULL| EMP    |    14 |   364 |     3   (0)| 00:00:01
|
```

--

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```
--------------------------------------------------------------------
--

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT Job, SUM(Sal)
  2  FROM Emp
  3* GROUP BY Job
SQL> /

JOB          SUM(SAL)
--------- ----------
SALESMAN      5600
CLERK         4150
PRESIDENT     5000
MANAGER       8275
ANALYST       6000


Execution Plan
----------------------------------------------------------
Plan hash value: 4067220884

--------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |    14 |   266 |     4  (25)| 00:00:01
|
|   1 |  HASH GROUP BY     |      |    14 |   266 |     4  (25)| 00:00:01
|
|   2 |   TABLE ACCESS FULL| EMP  |    14 |   266 |     3   (0)| 00:00:01
|
--------------------------------------------------------------------
--

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

```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, NULL Job, SUM(Sal)
  2  FROM Emp
  3  GROUP BY Deptno
  4  UNION
  5  SELECT NULL, Job, SUM(Sal)
  6  FROM Emp
  7* GROUP BY Job
SQL> /

    DEPTNO JOB         SUM(SAL)
---------- --------- ----------
        10                8750
        20               10875
        30                9400
           ANALYST         6000
           CLERK           4150
           MANAGER         8275
           PRESIDENT       5000
           SALESMAN        5600

8 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 961949858

--------------------------------------------------------------------------
----
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT    |      |    28 |   630 |    10  (70)|
00:00:01 |
|   1 |  SORT UNIQUE        |      |    28 |   630 |    10  (70)|
00:00:01 |
|   2 |   UNION-ALL         |      |       |       |            |
|
|   3 |    HASH GROUP BY    |      |    14 |   364 |     5  (40)|
00:00:01 |
|   4 |     TABLE ACCESS FULL| EMP |    14 |   364 |     3   (0)|
00:00:01 |
```

```
|   5 |     HASH GROUP BY     |        |   14 |   266 |     5  (40)|
00:00:01 |
|   6 |     TABLE ACCESS FULL| EMP    |   14 |   266 |     3   (0)|
00:00:01 |
-------------------------------------------------------------------------
----

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

SQL> SPOOL OFF
```