**Spool File For Oracle Students Trained by Mr.Sathish Yellanki**
………………………………………………………………………………………………http://skyess.info/contact-form………………………………

```
SQL> cl scr

SQL> SELECT ColumnName
  2  FROM TableName
  3  WHERE ColumnName = Value --COMPONENT QUERY 01
  4  <SET OPERATOR>
  5  SELECT ColumnName
  6  FROM TableName
  7  WHERE ColumnName = Value --COMPONENT QUERY 02
  8
SQL> SELECT Ename, Dname
  2  FROM Emp, Dept
  3  WHERE Emp.Deptno = Dept.Deptno;

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

14 rows selected.

SQL> SELECT Ename
  2  FROM Emp
  3  UNION
  4  SELECT Dname
  5  FROM Dept;

ENAME
--------------
ACCOUNTING
ADAMS
ALLEN
BLAKE
CLARK
FORD
```

--------------------------------------------------------------------------------
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```
JAMES
JONES
KING
MARTIN
MILLER
OPERATIONS
RESEARCH
SALES
SCOTT
SMITH
TURNER

ENAME
--------------
WARD

18 rows selected.

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


SQL> ED
Wrote file afiedt.buf

  1  SELECT Ename, Job
  2  FROM Emp
  3  UNION
  4  SELECT Dname, Deptno
  5* FROM Dept
SQL> /
SELECT Ename, Job
              *
ERROR at line 1:
ORA-01790: expression must have same datatype as corresponding expression


SQL> ED
Wrote file afiedt.buf
```

```
  1   SELECT Ename, Job
  2   FROM Emp
  3   UNION
  4   SELECT Dname, TO_CHAR(Deptno)
  5* FROM Dept
SQL> /

ENAME          JOB
-------------- ----------------------------------------
ACCOUNTING     10
ADAMS          CLERK
ALLEN          SALESMAN
BLAKE          MANAGER
CLARK          MANAGER
FORD           ANALYST
JAMES          CLERK
JONES          MANAGER
KING           PRESIDENT
MARTIN         SALESMAN
MILLER         CLERK
OPERATIONS     40
RESEARCH       20
SALES          30
SCOTT          ANALYST
SMITH          CLERK
TURNER         SALESMAN

ENAME          JOB
-------------- ----------------------------------------
WARD           SALESMAN

18 rows selected.

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

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

---

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```
ERROR at line 4:
ORA-00933: SQL command not properly ended


SQL> ED
Wrote file afiedt.buf

  1   SELECT Ename
  2   FROM Emp
  3   UNION
  4   SELECT Dname
  5   FROM Dept
  6*  ORDER BY Dname
SQL> /
ORDER BY Dname
         *
ERROR at line 6:
ORA-00904: "DNAME": invalid identifier


SQL> ED
Wrote file afiedt.buf

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

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

-------------------------------------------------------------------------

```
SCOTT
SMITH
TURNER

ENAME
--------------
WARD

18 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  (
  2   SELECT Ename
  3   FROM Emp
  4   UNION
  5   SELECT Dname
  6   FROM Dept
  7  )
  8* ORDER BY Ename
SQL> /

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

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

--------------------------------------------------------------------------------

```
18 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  (
  2   SELECT Ename
  3   FROM Emp
  4   UNION
  5   SELECT Dname
  6   FROM Dept
  7  )
  8* ORDER BY Dname
SQL> /
ORDER BY Dname
         *
ERROR at line 8:
ORA-00904: "DNAME": invalid identifier


SQL> ED
Wrote file afiedt.buf

  1  (
  2   SELECT Ename
  3   FROM Emp
  4   UNION
  5   SELECT Dname
  6   FROM Dept
  7  )
  8* ORDER BY 1
SQL> /

ENAME
--------------
ACCOUNTING
ADAMS
ALLEN
BLAKE
CLARK
FORD
JAMES
JONES
KING
MARTIN
MILLER
OPERATIONS
```

------------------------------------------------------------------------------

```
RESEARCH
SALES
SCOTT
SMITH
TURNER

ENAME
--------------
WARD

18 rows selected.

SQL> cl scr

SQL> SET AUTOTRACE ON EXPLAIN
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


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 |
----------------------------------------------------------------------------
```

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```
|*  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> 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
---------
```

**------------------------------------------------------------------------------------**
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```
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 |
|   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


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):
---------------------------------------------------
```

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

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


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 |
------------------------------------------------------------------------
-----

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 Dname
  2  FROM Dept
  3  WHERE Deptno = &GDeptno
  4  UNION
  5  SELECT Ename, Job, Sal
  6  FROM Emp
  7  WHERE Deptno = &GDeptno2;
Enter value for gdeptno: 10
Enter value for gdeptno2: 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 = &GDeptno1
  4  UNION
  5  SELECT NULL, Ename, Job, Sal
  6  FROM Emp
  7* WHERE Deptno = &GDeptno2
SQL> /
Enter value for gdeptno1: 10
Enter value for gdeptno2: 10

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


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

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

-------------------------------------------------------------------------------
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```
-----------------------------------------------------------------------
-------------------------
|   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 = &GDeptno1
  4   UNION
  5   SELECT NULL, Ename, Job, Sal
  6   FROM Emp
  7   WHERE Deptno = &GDeptno2
  8   UNION
  9   SELECT NULL, NULL, NULL, SUM(Sal)
 10   FROM Emp
 11* WHERE Deptno = &GDeptno3
SQL> /
Enter value for gdeptno1: 10
Enter value for gdeptno2: 10
Enter value for gdeptno3: 10


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> /
Enter value for gdeptno1: 30
Enter value for gdeptno2: 30
Enter value for gdeptno3: 30

DNAME          ENAME      JOB           SAL
-------------- ---------- --------- ----------
SALES
               ALLEN      SALESMAN       1600
               BLAKE      MANAGER        2850
               JAMES      CLERK           950
               MARTIN     SALESMAN       1250
               TURNER     SALESMAN       1500
               WARD       SALESMAN       1250
                                         9400

8 rows selected.


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


-----------------------------------------------------------------------------
--------------------------
| Id  | Operation                    | Name             | Rows  | Bytes
| Cost (%CPU)| Time       |
-----------------------------------------------------------------------------
--------------------------
|   0 | SELECT STATEMENT             |                  |     8 |   282
|    10  (90)| 00:00:01 |
|   1 |  SORT UNIQUE                 |                  |     8 |   282
|    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              |     6 |   234
|     3   (0)| 00:00:01 |
|   6 |    SORT AGGREGATE            |                  |     1 |    26
|     4  (25)| 00:00:01 |
|*  7 |     TABLE ACCESS FULL        | EMP              |     6 |   156
|     3   (0)| 00:00:01 |
```

------------------------------------------------------------------------------------

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

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

   4 - access("DEPTNO"=30)
   5 - filter("DEPTNO"=30)
   7 - filter("DEPTNO"=30)

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
```

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

SQL> SELECT SUM(Sal)
  2  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 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
```

--------------------------------------------------------------------------------

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

```
SQL> /
GROUP BY Deptno
*
ERROR at line 7:
ORA-00903: invalid table name


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
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 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 |
```

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```
|   5 |     SORT AGGREGATE    |       |    1 |    13 |    4  (25)|
00:00:01 |
|   6 |      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 Job, SUM(Sal) SalSum
  2   FROM Emp
  3   GROUP BY Job
  4   UNION
  5   SELECT NULL, SUM(Sal)
  6*  FROM Emp
SQL> /

JOB          SALSUM
--------- ----------
ANALYST        6000
CLERK          4150
MANAGER        8275
PRESIDENT      5000
SALESMAN       5600
               29025

6 rows selected.


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

-------------------------------------------------------------------------
----
| Id | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
-------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT   |      |    15 |   279 |    9  (67)|
00:00:01 |
```

---------------------------------------------------------------------------------

```
|   1 |  SORT UNIQUE            |        |    15 |   279 |    9  (67)|
00:00:01 |
|   2 |   UNION-ALL             |        |       |       |           |
|
|   3 |    HASH GROUP BY        |        |    14 |   266 |    5  (40)|
00:00:01 |
|   4 |     TABLE ACCESS FULL| EMP      |    14 |   266 |    3   (0)|
00:00:01 |
|   5 |    SORT AGGREGATE       |        |     1 |    13 |    4  (25)|
00:00:01 |
|   6 |     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
  2   TO_CHAR(HireDate, 'YYYY') Year, SUM(Sal) SalSum
  3   FROM Emp
  4   GROUP BY TO_CHAR(HireDate, 'YYYY')
  5   UNION
  6   SELECT NULL, SUM(Sal)
  7*  FROM Emp
SQL> /

YEAR      SALSUM
---- ----------
1980        800
1981      22825
1982       4300
1983       1100
          29025


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

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

```
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT     |      |   15  |  321  |    9  (67)|
00:00:01 |
|   1 |  SORT UNIQUE         |      |   15  |  321  |    9  (67)|
00:00:01 |
|   2 |   UNION-ALL          |      |       |       |           |
|
|   3 |    HASH GROUP BY     |      |   14  |  308  |    5  (40)|
00:00:01 |
|   4 |     TABLE ACCESS FULL| EMP  |   14  |  308  |    3   (0)|
00:00:01 |
|   5 |     SORT AGGREGATE   |      |    1  |   13  |    4  (25)|
00:00:01 |
|   6 |      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
  2  Ename, Sal
  3  FROM Emp
  4  UNION
  5  SELECT NULL, SUM(Sal)
  6* 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
```

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```
          ---------- --------- ----------
               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> 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
```

--------------------------------------------------------------------------------

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```
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

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 |
--------------------------------------------------------------------------
----
```

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```
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
  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> cl scr

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
  8   UNION
  9   SELECT NULL, Job, SUM(Sal)
 10   FROM EMp
 11   GROUP BY Job
 12   UNION
 13   SELECT NULL, NULL, SUM(Sal)
 14*  FROM Emp
 15   /
```

```
    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
           ANALYST         6000
           CLERK           4150
           MANAGER         8275
           PRESIDENT       5000
           SALESMAN        5600

    DEPTNO JOB         SALSUM
---------- --------- ----------
                         29025

18 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3471315269

--------------------------------------------------------------------------
----
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT   |      |    43 |  1091 |    19  (85)|
00:00:01 |
|   1 |  SORT UNIQUE       |      |    43 |  1091 |    19  (85)|
00:00:01 |
|   2 |   UNION-ALL        |      |       |       |            |
|
|   3 |    HASH GROUP BY   |      |    14 |   448 |     5  (40)|
00:00:01 |
--------------------------------------------------------------------------
```

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```
|   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 |     HASH GROUP BY     |      |   14 |   266 |    5  (40)|
00:00:01 |
|   8 |      TABLE ACCESS FULL| EMP  |   14 |   266 |    3   (0)|
00:00:01 |
|   9 |     SORT AGGREGATE    |      |    1 |    13 |    4  (25)|
00:00:01 |
|  10 |      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, NULL Job, SUM(Sal) SalSum
  2  FROM Emp
  3  GROUP BY Deptno
  4  UNION
  5  SELECT NULL, Job, SUM(Sal)
  6  FROM Emp
  7  GROUP BY Job;

    DEPTNO JOB                 SALSUM
---------- -------------------- ----------
        10                        8750
        20                       10875
        30                        9400
           ANALYST               6000
           CLERK                 4150
           MANAGER               8275
           PRESIDENT             5000
           SALESMAN              5600

8 rows selected.


Execution Plan
----------------------------------------------------------
```

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```
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> cl scr

SQL> set autotrace off explain
SQL> CL SCR

SQL> CONN SYS AS SYSDBA
Connected.
SQL> GRANT CREATE ANY VIEW
  2  TO SCOTT;

Grant succeeded.

SQL> CONN SCOTT/tiger
Connected.
SQL> SPOOL OFF
```

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