....

Sathish Yellanki

Institute of Software Solutions

Announcing A New Batch
For
Oracle 11g R2
(SQL And PL/SQL)

Date : 18th June 2015
Time : 04.00 P.M.

Registrations
Started

Contact Details
Flat No : 201, 2nd Floor, Abhilash Tower
SR Nagar Main Road, Near SR Nagar Community Hall.
Land Mark : Just Bake Bakery, Hyderabad.
Phone : 91 40 2371 0047, 64640047, 9985798869

SkyEss Techno Solutions Pvt. Ltd.
Flat No. 201, II Floor, Abhilash Towers, BK Guda, Hyderabad – 500 038
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Sathish Yellanki

Institute of Software Solutions

Announcing A New Batch
For
Performance Tuning

Date : 22nd June 2015
Time : 12.30 P.M.

Registrations
Started

Contact Details
Flat No : 201, 2nd Floor, Abhilash Tower
SR Nagar Main Road, Near SR Nagar Community Hall.
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```
SQL> cl scr

SQL> SELECT
  2  TO_CHAR(HireDate, 'YYYY') "Year",
  3  SUM(Sal),
  4  DENSE_RANK()
  5  OVER
  6  (
  7  ORDER BY SUM(Sal) DESC
  8  ) YearRank
  9  FROM  Emp
 10  GROUP BY TO_CHAR(HireDate, 'YYYY')
 11  ORDER BY YearRank;

Year   SUM(SAL)   YEARRANK
----  ----------  ----------
1981     22825           1
1982      4300           2
1983      1100           3
1980       800           4

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  TO_CHAR(HireDate, 'YYYY') "Year",
  3  DENSE_RANK()
  4  OVER
  5  (
  6  ORDER BY SUM(Sal) DESC
  7  ) YearRank
  8  FROM  Emp
  9* ORDER BY YearRank
SQL> /
TO_CHAR(HireDate, 'YYYY') "Year",
        *
ERROR at line 2:
ORA-00937: not a single-group group function


SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  TO_CHAR(HireDate, 'YYYY') "Year",
```

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```
  3  DENSE_RANK()
  4  OVER
  5  (
  6  ORDER BY SUM(Sal) DESC
  7  ) YearRank
  8  FROM  Emp
  9  GROUP BY TO_CHAR(HireDate, 'YYYY')
 10* ORDER BY YearRank
SQL> /

Year    YEARRANK
----    ----------
1981          1
1982          2
1983          3
1980          4

SQL> SELECT
  2  Deptno,
  3  TO_CHAR(HireDate, 'YYYY') "Year",
  4  SUM(Sal),
  5  DENSE_RANK()
  6  OVER
  7  (
  8  ORDER BY  SUM(Sal) DESC
  9  ) YearRank
 10  FROM  Emp
 11  GROUP BY Deptno, TO_CHAR(HireDate, 'YYYY')
 12  ORDER BY YearRank;

    DEPTNO Year    SUM(SAL)    YEARRANK
---------- ----    --------    ----------
        30 1981        9400           1
        10 1981        7450           2
        20 1981        5975           3
        20 1982        3000           4
        10 1982        1300           5
        20 1983        1100           6
        20 1980         800           7

7 rows selected.

SQL> cl scr

SQL> SELECT
```

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```
  2   EName,
  3   Deptno,
  4   Sal,
  5   RANK()
  6   OVER
  7    (
  8    ORDER BY Sal
  9    ) EmpRank
 10   FROM  Emp
 11   ORDER BY Emprank;
```

```
ENAME          DEPTNO        SAL    EMPRANK
---------- ---------- ---------- ----------
SMITH              20        800          1
JAMES              30        950          2
ADAMS              20       1100          3
WARD               30       1250          4
MARTIN             30       1250          4
MILLER             10       1300          6
TURNER             30       1500          7
ALLEN              30       1600          8
CLARK              10       2450          9
BLAKE              30       2850         10
JONES              20       2975         11
FORD               20       3000         12
SCOTT              20       3000         12
KING               10       5000         14
```

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   EName,
  3   Deptno,
  4   Sal,
  5   RANK()
  6   OVER
  7    (
  8    ORDER BY Sal
  9    ) EmpRank
 10   FROM  Emp
 11   WHERE Deptno = &GiveDeptno
 12*  ORDER BY Emprank
```

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```
SQL> /
Enter value for givedeptno: 10

ENAME          DEPTNO        SAL   EMPRANK
---------- ---------- ---------- ----------
MILLER             10       1300          1
CLARK              10       2450          2
KING               10       5000          3

SQL> /
Enter value for givedeptno: 20

ENAME          DEPTNO        SAL   EMPRANK
---------- ---------- ---------- ----------
SMITH              20        800          1
ADAMS              20       1100          2
JONES              20       2975          3
FORD               20       3000          4
SCOTT              20       3000          4

SQL> /
Enter value for givedeptno: 30

ENAME          DEPTNO        SAL   EMPRANK
---------- ---------- ---------- ----------
JAMES              30        950          1
MARTIN             30       1250          2
WARD               30       1250          2
TURNER             30       1500          4
ALLEN              30       1600          5
BLAKE              30       2850          6

6 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  EName,
  3  Deptno,
  4  Sal,
  5  RANK()
  6  OVER
  7  (
  8   ORDER BY Sal
```

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```
 9    ) EmpRank
10   FROM   Emp
11   WHERE Deptno = 10
12   UNION
13   SELECT
14   EName,
15   Deptno,
16   Sal,
17   RANK()
18   OVER
19    (
20    ORDER BY Sal
21    ) EmpRank
22   FROM   Emp
23   WHERE Deptno = 20
24   UNION
25   SELECT
26   EName,
27   Deptno,
28   Sal,
29   RANK()
30   OVER
31    (
32    ORDER BY Sal
33    ) EmpRank
34   FROM   Emp
35   WHERE Deptno = 30
36* ORDER BY 2
SQL> /
```

```
ENAME          DEPTNO        SAL    EMPRANK
---------- ---------- ---------- ----------
CLARK          10       2450          2
KING           10       5000          3
MILLER         10       1300          1
ADAMS          20       1100          2
FORD           20       3000          4
JONES          20       2975          3
SCOTT          20       3000          4
SMITH          20        800          1
ALLEN          30       1600          5
BLAKE          30       2850          6
JAMES          30        950          1
MARTIN         30       1250          2
TURNER         30       1500          4
```

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```
WARD                30         1250                2

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1    SELECT
  2    EName,
  3    Deptno,
  4    Sal,
  5    RANK()
  6    OVER
  7     (
  8     ORDER BY Sal
  9     ) EmpRank
 10    FROM   Emp
 11    WHERE Deptno = 10
 12    UNION
 13    SELECT
 14    EName,
 15    Deptno,
 16    Sal,
 17    RANK()
 18    OVER
 19     (
 20     ORDER BY Sal
 21     ) EmpRank
 22    FROM   Emp
 23    WHERE Deptno = 20
 24    UNION
 25    SELECT
 26    EName,
 27    Deptno,
 28    Sal,
 29    RANK()
 30    OVER
 31     (
 32     ORDER BY Sal
 33     ) EmpRank
 34    FROM   Emp
 35    WHERE Deptno = 30
 36*   ORDER BY 2, 4
SQL> /
```

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```
ENAME          DEPTNO         SAL    EMPRANK
---------- ---------- ---------- ----------
MILLER             10        1300          1
CLARK              10        2450          2
KING               10        5000          3
SMITH              20         800          1
ADAMS              20        1100          2
JONES              20        2975          3
FORD               20        3000          4
SCOTT              20        3000          4
JAMES              30         950          1
MARTIN             30        1250          2
WARD               30        1250          2
TURNER             30        1500          4
ALLEN              30        1600          5
BLAKE              30        2850          6

14 rows selected.

SQL> SET AUTOTRACE ON EXPLAIN
SQL> R
  1   SELECT
  2   EName,
  3   Deptno,
  4   Sal,
  5   RANK()
  6   OVER
  7   (
  8    ORDER BY Sal
  9    ) EmpRank
 10   FROM   Emp
 11   WHERE Deptno = 10
 12   UNION
 13   SELECT
 14   EName,
 15   Deptno,
 16   Sal,
 17   RANK()
 18   OVER
 19   (
 20    ORDER BY Sal
 21    ) EmpRank
 22   FROM   Emp
 23   WHERE Deptno = 20
 24   UNION
```

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```
25  SELECT
26  EName,
27  Deptno,
28  Sal,
29  RANK()
30  OVER
31   (
32   ORDER BY Sal
33   ) EmpRank
34  FROM  Emp
35  WHERE Deptno = 30
36* ORDER BY 2, 4
```

```
ENAME          DEPTNO         SAL   EMPRANK
---------- ---------- ---------- ----------
MILLER             10        1300          1
CLARK              10        2450          2
KING               10        5000          3
SMITH              20         800          1
ADAMS              20        1100          2
JONES              20        2975          3
FORD               20        3000          4
SCOTT              20        3000          4
JAMES              30         950          1
MARTIN             30        1250          2
WARD               30        1250          2
TURNER             30        1500          4
ALLEN              30        1600          5
BLAKE              30        2850          6

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 50081332


--------------------------------------------------------------------------
----
| Id  | Operation            | Name  | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT     |       |    14 |   462 |   16  (44)|
00:00:01 |

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

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```
.......................................................................................................................
|   1 |  SORT UNIQUE          |      |   14 |   462 |   15  (80)|
00:00:01 |
|   2 |   UNION-ALL           |      |      |       |           |
|
|   3 |    WINDOW SORT        |      |    3 |    99 |    5  (40)|
00:00:01 |
|*  4 |     TABLE ACCESS FULL| EMP  |    3 |    99 |    3   (0)|
00:00:01 |
|   5 |    WINDOW SORT        |      |    5 |   165 |    5  (40)|
00:00:01 |
|*  6 |     TABLE ACCESS FULL| EMP  |    5 |   165 |    3   (0)|
00:00:01 |
|   7 |    WINDOW SORT        |      |    6 |   198 |    5  (40)|
00:00:01 |
|*  8 |     TABLE ACCESS FULL| EMP  |    6 |   198 |    3   (0)|
00:00:01 |
-----------------------------------------------------------------------
----

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

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

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

SQL> SELECT
  2  EName,
  3  DeptNo,
  4  Sal,
  5  DENSE_RANK()
  6  OVER
  7  (
  8   PARTITION BY Deptno
  9   ORDER BY Sal
 10  )  "Top Sal"
 11  FROM Emp
 12  ORDER BY DeptNo, Sal;

ENAME          DEPTNO        SAL   Top Sal
---------- ---------- ---------- ----------
```

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```
MILLER                  10          1300            1
CLARK                   10          2450            2
KING                    10          5000            3
SMITH                   20           800            1
ADAMS                   20          1100            2
JONES                   20          2975            3
SCOTT                   20          3000            4
FORD                    20          3000            4
JAMES                   30           950            1
WARD                    30          1250            2
MARTIN                  30          1250            2
TURNER                  30          1500            3
ALLEN                   30          1600            4
BLAKE                   30          2850            5
```

14 rows selected.

Execution Plan

Plan hash value: 3145491563

```
---------------------------------------------------------------------------
--
| Id  | Operation           | Name | Rows  | Bytes | Cost (%CPU)| Time     |
---------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT    |      |    14 |   462 |     3   (0)| 00:00:01 |
|   1 |  WINDOW SORT        |      |    14 |   462 |     3   (0)| 00:00:01 |
|   2 |   TABLE ACCESS FULL | EMP  |    14 |   462 |     3   (0)| 00:00:01 |
---------------------------------------------------------------------------
--
```

Note

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

SQL> cl scr

SQL> SELECT
  2 EName,

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```
 3  Deptno,
 4  Sal,
 5  RANK()
 6  OVER
 7  (
 8   ORDER BY Sal
 9   ) EmpRank
10  FROM  Emp
11  ORDER BY Emprank;
```

```
ENAME          DEPTNO        SAL    EMPRANK
---------- ---------- ---------- ----------
SMITH              20        800          1
JAMES              30        950          2
ADAMS              20       1100          3
WARD               30       1250          4
MARTIN             30       1250          4
MILLER             10       1300          6
TURNER             30       1500          7
ALLEN              30       1600          8
CLARK              10       2450          9
BLAKE              30       2850         10
JONES              20       2975         11
FORD               20       3000         12
SCOTT              20       3000         12
KING               10       5000         14
```

14 rows selected.

Execution Plan

Plan hash value: 3145491563


```
--------------------------------------------------------------------
--
| Id  | Operation        | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------
--
|  0  | SELECT STATEMENT |      |   14  |  462  |   3   (0)| 00:00:01
|
|  1  |  WINDOW SORT     |      |   14  |  462  |   3   (0)| 00:00:01
|
```

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```
.......................................................................................................................
|   2 |   TABLE ACCESS FULL| EMP  |   14 |   462 |    3   (0)| 00:00:01
|
-------------------------------------------------------------------------
--

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

SQL> ED
Wrote file afiedt.buf

   1   SELECT
   2   EName,
   3   Deptno,
   4   Sal,
   5   RANK()
   6   OVER
   7   (
   8    ORDER BY Sal DESC
   9    ) EmpRank
  10   FROM   Emp
  11*  ORDER BY Emprank
SQL> cl scr

SQL> R
   1   SELECT
   2   EName,
   3   Deptno,
   4   Sal,
   5   RANK()
   6   OVER
   7   (
   8    ORDER BY Sal DESC
   9    ) EmpRank
  10   FROM   Emp
  11*  ORDER BY Emprank

ENAME          DEPTNO        SAL   EMPRANK
---------- ---------- ---------- ----------
KING               10       5000          1
SCOTT              20       3000          2
FORD               20       3000          2
JONES              20       2975          4
BLAKE              30       2850          5
```

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```
CLARK                    10           2450            6
ALLEN                    30           1600            7
TURNER                   30           1500            8
MILLER                   10           1300            9
WARD                     30           1250           10
MARTIN                   30           1250           10
ADAMS                    20           1100           12
JAMES                    30            950           13
SMITH                    20            800           14

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3145491563

--------------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |    14 |   462 |     3   (0)| 00:00:01
|
|   1 |  WINDOW SORT       |      |    14 |   462 |     3   (0)| 00:00:01
|
|   2 |   TABLE ACCESS FULL| EMP  |    14 |   462 |     3   (0)| 00:00:01
|
--------------------------------------------------------------------------
--

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  EName,
  3  Deptno,
  4  Sal,
  5  DENSE_RANK()
  6  OVER
```

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```
    7    (
    8    ORDER BY Sal DESC
    9    ) EmpRank
   10   FROM   Emp
   11* ORDER BY Emprank
SQL> /

ENAME         DEPTNO        SAL     EMPRANK
----------  ----------  ----------  ----------
KING              10       5000          1
SCOTT             20       3000          2
FORD              20       3000          2
JONES             20       2975          3
BLAKE             30       2850          4
CLARK             10       2450          5
ALLEN             30       1600          6
TURNER            30       1500          7
MILLER            10       1300          8
WARD              30       1250          9
MARTIN            30       1250          9
ADAMS             20       1100         10
JAMES             30        950         11
SMITH             20        800         12

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3145491563

--------------------------------------------------------------------------
--
| Id  | Operation          | Name | Rows  | Bytes | Cost (%CPU)| Time    |
--------------------------------------------------------------------------
--
|   0 | SELECT STATEMENT   |      |    14 |   462 |     3   (0)| 00:00:01 |
|   1 |  WINDOW SORT       |      |    14 |   462 |     3   (0)| 00:00:01 |
|   2 |   TABLE ACCESS FULL| EMP  |    14 |   462 |     3   (0)| 00:00:01 |
--------------------------------------------------------------------------
--
```

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

SQL> ED
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  1   SELECT E1.*
  2   FROM
  3   (
  4    SELECT
  5    EName,
  6    Deptno,
  7    Sal,
  8    DENSE_RANK()
  9    OVER
 10         (
 11         ORDER BY Sal DESC
 12         ) EmpRank
 13   FROM   Emp
 14   ORDER BY Emprank
 15   ) E1
 16* WHERE E1.EmpRank <= 3
SQL> /


ENAME          DEPTNO         SAL    EMPRANK
---------- ---------- --------- ----------
KING              10   5000          1
FORD              20   3000          2
SCOTT             20   3000          2
JONES             20   2975          3



Execution Plan
----------------------------------------------------------
Plan hash value: 3291446077

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

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```
............................................................................................................
|   0 | SELECT STATEMENT        |     |  14 |  644 |    3   (0)|
00:00:01 |
|*  1 |  VIEW                   |     |  14 |  644 |    3   (0)|
00:00:01 |
|*  2 |   WINDOW SORT PUSHED RANK|    |  14 |  462 |    3   (0)|
00:00:01 |
|   3 |    TABLE ACCESS FULL    | EMP |  14 |  462 |    3   (0)|
00:00:01 |
------------------------------------------------------------------------
--------

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

   1 - filter("E1"."EMPRANK"<=3)
   2 - filter(DENSE_RANK() OVER ( ORDER BY INTERNAL_FUNCTION("SAL") DESC
           )<=3)

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

SQL> SELECT *
  2  FROM
  3  (
  4  SELECT Ename, Deptno, Sal,
  5  DENSE_RANK()
  6  OVER
  7      (
  8        PARTITION BY DeptNo
  9        ORDER BY Sal DESC
 10        ) "TOP Sal"
 11  FROM Emp
 12  )
 13  WHERE "TOP Sal" <= 3
 14  ORDER BY DeptNo, Sal DESC;


ENAME        DEPTNO       SAL  TOP Sal
---------- ---------- ---------- ----------
KING           10       5000         1
CLARK          10       2450         2
MILLER         10       1300         3
FORD           20       3000         1
SCOTT          20       3000         1
JONES          20       2975         2
```

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```
ADAMS                    20        1100            3
BLAKE                    30        2850            1
ALLEN                    30        1600            2
TURNER                   30        1500            3

10 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3291446077

-----------------------------------------------------------------------
--------
| Id  | Operation               | Name | Rows  | Bytes | Cost (%CPU)|
Time     |
-----------------------------------------------------------------------
--------
|   0 | SELECT STATEMENT        |      |    14 |   644 |     4  (25)|
00:00:01 |
|*  1 |  VIEW                   |      |    14 |   644 |     4  (25)|
00:00:01 |
|*  2 |   WINDOW SORT PUSHED RANK|     |    14 |   462 |     4  (25)|
00:00:01 |
|   3 |    TABLE ACCESS FULL    | EMP  |    14 |   462 |     3   (0)|
00:00:01 |
-----------------------------------------------------------------------
--------

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

   1 - filter("TOP Sal"<=3)
   2 - filter(DENSE_RANK() OVER ( PARTITION BY "DEPTNO" ORDER BY
           INTERNAL_FUNCTION("SAL") DESC )<=3)

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

SQL> ED
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  1  SELECT
  2  EName,
```

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```
   3  Deptno,
   4  Sal,
   5  DENSE_RANK()
   6  OVER
   7   (
   8   ORDER BY Sal
   9   ) EmpRankOrg,
  10  DENSE_RANK()
  11  OVER
  12   (
  13   PARTITION BY Deptno
  14   ORDER BY Sal
  15   ) EmpRankDept
  16  FROM   Emp
 17* ORDER BY EmpRankDept
SQL> /

ENAME          DEPTNO        SAL EMPRANKORG EMPRANKDEPT
---------- ---------- ---------- ---------- -----------
JAMES              30        950          2           1
MILLER             10       1300          5           1
SMITH              20        800          1           1
CLARK              10       2450          8           2
ADAMS              20       1100          3           2
WARD               30       1250          4           2
MARTIN             30       1250          4           2
KING               10       5000         12           3
TURNER             30       1500          6           3
JONES              20       2975         10           3
SCOTT              20       3000         11           4
FORD               20       3000         11           4
ALLEN              30       1600          7           4
BLAKE              30       2850          9           5

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3715781065

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

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

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```
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--------------------------------------------------------------------------
----
|   0 | SELECT STATEMENT      |       |    14 |   462 |     6  (50)|
00:00:01 |
|   1 |  SORT ORDER BY        |       |    14 |   462 |     6  (50)|
00:00:01 |
|   2 |   WINDOW SORT         |       |    14 |   462 |     6  (50)|
00:00:01 |
|   3 |    WINDOW SORT        |       |    14 |   462 |     6  (50)|
00:00:01 |
|   4 |     TABLE ACCESS FULL| EMP   |    14 |   462 |     3   (0)|
00:00:01 |
--------------------------------------------------------------------------
----

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

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  EName,
  3  Deptno,
  4  Sal,
  5  DENSE_RANK()
  6  OVER
  7   (
  8   ORDER BY Sal
  9   ) EmpRankOrg,
 10  DENSE_RANK()
 11  OVER
 12   (
 13   PARTITION BY Deptno
 14   ORDER BY Sal
 15   ) EmpRankDept
 16  FROM  Emp
 17* ORDER BY Deptno
SQL> /

ENAME          DEPTNO        SAL EMPRANKORG EMPRANKDEPT
--------- ---------- ---------- ---------- -----------
MILLER            10       1300          5           1
CLARK             10       2450          8           2
```

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```
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KING                    10         5000          12             3
SMITH                   20          800           1             1
ADAMS                   20         1100           3             2
JONES                   20         2975          10             3
SCOTT                   20         3000          11             4
FORD                    20         3000          11             4
JAMES                   30          950           2             1
WARD                    30         1250           4             2
MARTIN                  30         1250           4             2
TURNER                  30         1500           6             3
ALLEN                   30         1600           7             4
BLAKE                   30         2850           9             5

14 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 4086863039

--------------------------------------------------------------------------
---
| Id  | Operation             | Name | Rows  | Bytes | Cost (%CPU)| Time
|
--------------------------------------------------------------------------
---
|   0 | SELECT STATEMENT      |      |    14 |   462 |     4  (25)|
00:00:01 |
|   1 |  WINDOW SORT          |      |    14 |   462 |     4  (25)|
00:00:01 |
|   2 |   WINDOW SORT         |      |    14 |   462 |     4  (25)|
00:00:01 |
|   3 |    TABLE ACCESS FULL| EMP  |    14 |   462 |     3   (0)|
00:00:01 |
--------------------------------------------------------------------------
---

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

SQL> cl scr

SQL> SELECT *
  2  FROM
```

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....

```
 3    (
 4    SELECT Ename, Deptno, Sal,
 5    RANK()
 6    OVER
 7         (
 8         PARTITION BY DeptNo
 9         ORDER BY Sal ASC
10         )  "TOP Sal"
11    FROM Emp
12    )
13    WHERE "TOP Sal" <= 3
14    ORDER BY DeptNo, Sal DESC;
```

```
ENAME          DEPTNO         SAL   TOP Sal
---------- ---------- ---------- ----------
KING               10       5000          3
CLARK              10       2450          2
MILLER             10       1300          1
JONES              20       2975          3
ADAMS              20       1100          2
SMITH              20        800          1
MARTIN             30       1250          2
WARD               30       1250          2
JAMES              30        950          1
```

9 rows selected.

Execution Plan

Plan hash value: 1016020763

```
-----------------------------------------------------------------------
---------
| Id  | Operation               | Name | Rows  | Bytes | Cost (%CPU)|
Time      |
-----------------------------------------------------------------------
---------
|   0 | SELECT STATEMENT        |      |    14 |   644 |     5  (40)|
00:00:01 |
|   1 |  SORT ORDER BY          |      |    14 |   644 |     5  (40)|
00:00:01 |
|*  2 |   VIEW                  |      |    14 |   644 |     4  (25)|
00:00:01 |
```

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```
|*  3 |     WINDOW SORT PUSHED RANK|        |  14 |  462 |    4 (25)|
00:00:01 |
|   4 |       TABLE ACCESS FULL    | EMP   |  14 |  462 |    3  (0)|
00:00:01 |
-------------------------------------------------------------------------
---------

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

   2 - filter("TOP Sal"<=3)
   3 - filter(RANK() OVER ( PARTITION BY "DEPTNO" ORDER BY "SAL")<=3)

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

SQL> ED
Wrote file afiedt.buf

   1   SELECT *
   2   FROM
   3   (
   4   SELECT Ename, Deptno, Sal,
   5   RANK()
   6   OVER
   7        (
   8        PARTITION BY DeptNo
   9        ORDER BY Sal DESC
  10        )  "TOP Sal"
  11   FROM Emp
  12   )
  13   WHERE "TOP Sal" <= 3
  14*  ORDER BY DeptNo, Sal DESC
SQL> /


ENAME         DEPTNO        SAL   TOP Sal
---------- ---------- ---------- ----------
KING            10       5000          1
CLARK           10       2450          2
MILLER          10       1300          3
FORD            20       3000          1
SCOTT           20       3000          1
JONES           20       2975          3
BLAKE           30       2850          1
```

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………

```
ALLEN                   30        1600              2
TURNER                  30        1500              3

9 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 3291446077

--------------------------------------------------------------------
--------
| Id  | Operation                  | Name | Rows  | Bytes | Cost (%CPU)|
Time     |
--------------------------------------------------------------------
--------
|   0 | SELECT STATEMENT           |      |    14 |   644 |     4  (25)|
00:00:01 |
|*  1 |  VIEW                      |      |    14 |   644 |     4  (25)|
00:00:01 |
|*  2 |   WINDOW SORT PUSHED RANK  |      |    14 |   462 |     4  (25)|
00:00:01 |
|   3 |    TABLE ACCESS FULL       | EMP  |    14 |   462 |     3   (0)|
00:00:01 |
--------------------------------------------------------------------
--------


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

   1 - filter("TOP Sal"<=3)
   2 - filter(RANK() OVER ( PARTITION BY "DEPTNO" ORDER BY
              INTERNAL_FUNCTION("SAL") DESC )<=3)

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

SQL> SELECT *
  2  FROM
  3  (
  4  SELECT Ename, Deptno, Sal,
  5  DENSE_RANK()
  6  OVER
  7      (
```

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………

```
 8          PARTITION BY DeptNo
 9          ORDER BY Sal DESC
10          )  "TOP Sal"
11   FROM Emp
12   )
13   WHERE "TOP Sal" IN(3)
14   ORDER BY DeptNo, Sal DESC;
```

```
ENAME          DEPTNO        SAL   TOP Sal
---------- ---------- ---------- ----------
MILLER             10       1300          3
ADAMS              20       1100          3
TURNER             30       1500          3
```

```
Execution Plan
----------------------------------------------------------
Plan hash value: 3291446077
```

```
------------------------------------------------------------------------
--------
| Id  | Operation              | Name | Rows  | Bytes | Cost (%CPU)|
Time     |
------------------------------------------------------------------------
--------
|   0 | SELECT STATEMENT       |      |    14 |   644 |    4  (25)|
00:00:01 |
|*  1 |  VIEW                  |      |    14 |   644 |    4  (25)|
00:00:01 |
|*  2 |   WINDOW SORT PUSHED RANK|    |    14 |   462 |    4  (25)|
00:00:01 |
|   3 |    TABLE ACCESS FULL   | EMP  |    14 |   462 |    3   (0)|
00:00:01 |
------------------------------------------------------------------------
--------
```

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

   1 - filter("TOP Sal"=3)
   2 - filter(DENSE_RANK() OVER ( PARTITION BY "DEPTNO" ORDER BY
             INTERNAL_FUNCTION("SAL") DESC )<=3)
```

```
Note
-----
```

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

```
SQL> BREAK ON Deptno SKIP 1
SQL> SELECT *
  2   FROM
  3   (
  4   SELECT Deptno, Ename, Sal,
  5   DENSE_RANK()
  6   OVER
  7        (
  8         PARTITION BY DeptNo
  9         ORDER BY Sal DESC
 10         ) "TOP Sal"
 11   FROM Emp
 12   )
 13   WHERE "TOP Sal" IN(1, 3)
 14   ORDER BY DeptNo, Sal DESC;

    DEPTNO ENAME           SAL   TOP Sal
---------- ---------- ---------- ----------
        10 KING            5000         1
           MILLER          1300         3

        20 SCOTT           3000         1
           FORD            3000         1
           ADAMS           1100         3

        30 BLAKE           2850         1
           TURNER          1500         3


7 rows selected.


Execution Plan
----------------------------------------------------------
Plan hash value: 4130734685

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

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```
...............................................................................................................
|   0 | SELECT STATEMENT    |      |  14 |  644 |   4  (25)|
00:00:01 |
|*  1 |   VIEW              |      |  14 |  644 |   4  (25)|
00:00:01 |
|   2 |    WINDOW SORT      |      |  14 |  462 |   4  (25)|
00:00:01 |
|   3 |     TABLE ACCESS FULL| EMP |  14 |  462 |   3   (0)|
00:00:01 |
-------------------------------------------------------------------
---

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

   1 - filter("TOP Sal"=1 OR "TOP Sal"=3)

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

SQL> BREAK ON Deptno DUP
SQL> SELECT *
  2  FROM
  3  (
  4  SELECT Deptno, Ename, Sal, HireDate,
  5  DENSE_RANK()
  6  OVER
  7       (
  8        PARTITION BY DeptNo
  9        ORDER BY HireDate
 10       ) "Seniors"
 11  FROM Emp
 12  )
 13  WHERE "Seniors" = 1
 14  ORDER BY DeptNo, HireDate DESC;

   DEPTNO ENAME            SAL HIREDATE    Seniors
---------- ---------- ---------- --------- ----------
       10 CLARK          2450 09-JUN-81          1
       20 SMITH           800 17-DEC-80          1
       30 ALLEN          1600 20-FEB-81          1

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

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………
Plan hash value: 1016020763

```
-----------------------------------------------------------------------
---------
| Id  | Operation                  | Name | Rows  | Bytes | Cost (%CPU)|
Time       |
-----------------------------------------------------------------------
---------
|   0 | SELECT STATEMENT           |      |    14 |   770 |     5  (40)|
00:00:01 |
|   1 |  SORT ORDER BY             |      |    14 |   770 |     5  (40)|
00:00:01 |
|*  2 |   VIEW                     |      |    14 |   770 |     4  (25)|
00:00:01 |
|*  3 |    WINDOW SORT PUSHED RANK |      |    14 |   588 |     4  (25)|
00:00:01 |
|   4 |     TABLE ACCESS FULL      | EMP  |    14 |   588 |     3   (0)|
00:00:01 |
-----------------------------------------------------------------------
---------
```

Predicate Information (identified by operation id):

```
   2 - filter("Seniors"=1)
   3 - filter(DENSE_RANK() OVER ( PARTITION BY "DEPTNO" ORDER BY
              "HIREDATE")<=1)
```

Note

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

```
SQL> SELECT *
  2  FROM
  3   (
  4   SELECT Deptno, Ename, Sal, HireDate,
  5   DENSE_RANK()
  6   OVER
  7       (
  8        PARTITION BY DeptNo
  9        ORDER BY HireDate DESC
 10       )  "Juniors"
 11   FROM Emp
 12   )
 13  WHERE "Juniors" = 1
```

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```
 14  ORDER BY DeptNo, HireDate DESC;

   DEPTNO ENAME            SAL HIREDATE    Juniors
---------- ---------- ---------- --------- ----------
        10 MILLER          1300 23-JAN-82          1
        20 ADAMS           1100 12-JAN-83          1
        30 JAMES            950 03-DEC-81          1


Execution Plan
----------------------------------------------------------
Plan hash value: 3291446077


------------------------------------------------------------------
--------
| Id  | Operation            | Name | Rows  | Bytes | Cost (%CPU)|
Time    |
------------------------------------------------------------------
--------
|   0 | SELECT STATEMENT     |      |    14 |   770 |     4  (25)|
00:00:01 |
|*  1 |  VIEW                |      |    14 |   770 |     4  (25)|
00:00:01 |
|*  2 |   WINDOW SORT PUSHED RANK|  |    14 |   588 |     4  (25)|
00:00:01 |
|   3 |    TABLE ACCESS FULL | EMP  |    14 |   588 |     3   (0)|
00:00:01 |
------------------------------------------------------------------
--------


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

   1 - filter("Juniors"=1)
   2 - filter(DENSE_RANK() OVER ( PARTITION BY "DEPTNO" ORDER BY
              INTERNAL_FUNCTION("HIREDATE") DESC )<=1)

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

SQL> SPOOL OFF
```

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(SQL And PL/SQL)

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Time   : 04.00 P.M.

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