

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.

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Contact For Courses And Training in

Oracle Developer Suite 10g(D2K), Oracle Apps R12, Live Projects in SQL and PL/SQL, Data Modeling, Linux/Unix

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Sathish Yellanki

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Announcing A New Batch For

Performance Tuning

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

Contact Details

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```
SOL> cl scr
SOL> SELECT
  2 TO_CHAR(HireDate, 'YYYY') "Year",
  3 SUM(Sal),
  4 DENSE_RANK()
  5 OVER
  6
   (
   ORDER BY SUM(Sal) DESC
 8
    ) YearRank
 9 FROM Emp
 10 GROUP BY TO_CHAR(HireDate, 'YYYY')
 11 ORDER BY YearRank;
               YEARRANK
Year
      SUM(SAL)
---- ------
1981
        22825
1982
         4300
         1100
1983
          800
1980
SOL> 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
TO_CHAR(HireDate, 'YYYY') "Year",
ERROR at line 2:
ORA-00937: not a single-group group function
SQL> ED
Wrote file afiedt.buf
    SELECT
    TO_CHAR(HireDate, 'YYYY') "Year",
```

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```
3 DENSE_RANK()
  4 OVER
  5
    (
   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
1982
1983
1980
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
       10 1981
                     7450
                                  2
       20 1981
                     5975
                                  3
       20 1982
                    3000
       10 1982
                    1300
       20 1983
                    1100
                    800
       20 1980
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 I	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
	ST VA.		

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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```
) 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> /
```

DEPTNO		EMPRANK
10	2450	
10	5000	3
10	1300	1
20	1100	2
20	3000	4
20	2975	3
20	3000	4
20	800	1
30	1600	5
30	2850	6
30	950	1
30	1250	2
30	1500	4
	10 10 10 20 20 20 20 20 30 30 30 30	10 2450 10 5000 10 1300 20 1100 20 3000 20 2975 20 3000 20 800 30 1600 30 2850 30 950 30 1250

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```
WARD
14 rows selected.
SQL> ED
Wrote file afiedt.buf
    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 =
 24 UNION
 25 SELECT
 26 EName,
 27 Deptno,
 28
    Sal,
 29
    RANK()
 30
    OVER
 31
 32
    ORDER BY Sal
 33
     ) EmpRank
    FROM Emp
 34
   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	4 1 4
TURNER	30	1500	4	
ALLEN	30	1600	5	
BLAKE	30	2850	6	
14 rows selec	cted.			0,
SQL> SET AUTO SQL> R 1 SELECT	OTRACE ON EXI	PLAIN	10,	

```
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
    FROM Emp
22
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
                  10
MILLER
                           1300
CLARK
                  10
                           2450
KING
                  10
                           5000
SMITH
                  20
                            800
                                         1
                  20
                           1100
ADAMS
JONES
                  20
                           2975
```

14 rows selected.

Execution Plan

FORD

SCOTT

JAMES

WARD

MARTIN

TURNER ALLEN

BLAKE

3000

3000

1250

1250

1600 2850

1500

950

Plan hash value: 50081332

20

20

30

30

30

30

30

30

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

4

2

4

0 | SELECT STATEMENT | 14 | 462 | 16 (44) | 00:00:01 |

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1	SORT UNIQUE			14	462	15	(80)
00:00:01	 UNION-ALL	I	Ī		1		
3	WINDOW SORT	·	·	3	99	5	(40)
00:00:01		I	I	3	,	5	
* 4 00:00:01	TABLE ACCESS	FULL EMP		3	99	3	(0)
5	WINDOW SORT			5	165	5	(40)
00:00:01	TABLE ACCESS	FULL EMP	1	5	165	3	(0)
00:00:01		'	'	'	•	_	
7 00:00:01	WINDOW SORT	I	l	6	198	5	(40)
* 8	TABLE ACCESS	FULL EMP		6	198	3	(0)
00:00:01	 						
				4			
Predicate	e Information (id	lentified l	2√ 010€	eration	id):		
1 f	ilter("DEPTNO"=10	1.					
	ilter("DEPTNO"=10 ilter("DEPTNO"=20						
	ilter("DEPTNO"=30						
37 .		+	-				
Note	1	MA					
- dyna	amic sampling use	d for this	s stat	tement (level=2)		
SQL> SELE							
2 ENar 3 Dept							
4 Sal							
	SE_RANK()						
6 OVEI	3						
7 (
	RTITION BY Deptno						
AP AP	DER BY Sal						
CHIEF AND ARREST	"Top Sal"						
W V V	M Emp ER BY DeptNo, Sal	;					
TZ ORDI	in Di Depeno, bai						
ENAME	DEPTNO	SAL	Top	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	4 1
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 1	HINDON CODE		1.4	ı	460	2	(O) I	00.00.01
+	WINDOW SORT		14	I	462	3	(0)	00:00:01
2	TABLE ACCESS FULI	L 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,

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

ENAME	DEPTNO	SAL	EMPRANK
CMTERI			
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

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

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```
2 | TABLE ACCESS FULL | EMP | 14 | 462 | 3
Note
   - dynamic sampling used for this statement (level=2)
SOL> 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()
   OVER
  6
  7
  8
    ORDER BY Sal DESC
  9
    ) EmpRank
 10 FROM Emp
 11* ORDER BY Emprank
ENAME
             DEPTNO SAL
                                EMPRANK
KING
                 10
                         5000
SCOTT
                 20
                                       2
                          3000
FORD
                 20
                          3000
                                       2
JONES
                 20
                          2975
BLAKE
                 30
                          2850
```

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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 select	t ad			1

14 rows selected.

Execution Plan

Plan hash value: 3145491563

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

Note

Noce

- 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	1	Name	Rows	Bytes		Cost (%	CPU)	Time
0 SELECT STATEMENT			14	462		3	(0)	00:00:01
1 WINDOW SORT		1	14	462		3	(0)	00:00:01
2 TABLE ACCESS FULI	1 ا	EMP	14	462		3	(0)	00:00:01
<u> </u>				 				

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```
Note
   - dynamic sampling used for this statement (level=2)
SQL> ED
Wrote file afiedt.buf
    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
     ORDER BY Emprank
 14
 15
      ) E1
 16* WHERE E1.EmpRank <= 3
SQL> /
ENAME
               DEPTNO
                              SAL
                             5000
KING
                   10
FORD
                   20
                             3000
                                           2
SCOTT
                   20
                             3000
                                           2
                   20
                             2975
JONES
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
                         | 14 | 644 | 3
|* 1 | VIEW
                                                     (0)
00:00:01
|* 2 | WINDOW SORT PUSHED RANK| | 14 | 462 |
00:00:01
| 3 | TABLE ACCESS FULL
                          | EMP |
                                    14 |
                                         462
00:00:01
Predicate Information (identified by operation id):
  1 - filter("E1"."EMPRANK"<=3)</pre>
  2 - filter(DENSE_RANK() OVER ( ORDER BY INTERNAL_FUNCTION("SAL") DESC
          ) <= 3)
Note
  - dynamic sampling used for this statement (level=2)
SOL> SELECT *
 2 FROM
 3 (
 4 SELECT Ename, Deptno, Sal,
 5 DENSE_RANK()
 6 OVER
 7
 8
        PARTITION BY DeptNo
    ORDER BY Sal DESC
) "TOP Sal"
 9
 10
 11 FROM Emp
 12 )
 13 WHERE "TOP Sal" <= 3
 14 ORDER BY DeptNo, Sal DESC;
        DEPTNO SAL TOP Sal
      P-- ------ ----- -----
              10 5000
KING
CLARK
              10
                     2450
                    1300
MILLER
              10
              20
FORD
                     3000
                                 1
SCOTT
              20
                     3000
JONES
               20
                     2975
```

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ADAMS	••••••	20	1100	• • • • • • • • • • • • • • • • • • • •	3	• • • • • • • • • • • • • • • • • • • •	••••••	• • • • • • • • • • • • • • • • • • • •	•••••	
BLAKE		-	2850		1					
ALLEN			1600		2					
TURNER			1500		3					
10 rows s	elected.	30	1500		3				4	X
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Execution	Plan							4		
		201446077								
Plan hash	value. 3	2914460//					4		- Inches	
							41			
Id O	peration			Name	Rot	ws E	Bytes	Cost	(%CPU)
Time			·	•	•	.A	4.			·
				ı		YV				
	ELECT STA	TEMENT				14	644	4	1 (25)
00:00:01	•			1		141	C 1 1	I ,		. . I
* 1 00:00:01				4		14	644	4	£ (25)
		ORT PUSHE	ר אמעגן			1 <i>4</i>	462	4	1 (25	١.
00:00:01		OKI PUSIIE.	D KANK		I	T. 1	102	1	r (23	<i>/</i>
		CCESS FUL	ь Т	EMP	1	14	462	3	3 (0)
00:00:01			+ 6		1			1		, I
	· 									
Predicate	Informat	ion (iden	tified	by ope	eratio	on id):				
							-			
1 – fi	lter("TOP	Sal"<=3)								
	•	E_RANK()	OVER (PARTTT	ו מסדי	BY "DEF	יי סמידים	ORDER F	RY	
2 11	720	RNAL_FUNC					1110	JILDEIL I	<i>-</i>	
4				, _		,				
Note	K) +									
- dyna	mic sampl	ing used	for thi	is stat	ement	t (leve	=1=2)			
	7									
SQL> ED										
Wrote fil	e afiedt.	buÍ								
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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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```
| 0 | SELECT STATEMENT | 14 | 462 |
                                                 (50)
00:00:01
                           | 14 | 462 |
1 | SORT ORDER BY
                                                 (50)
00:00:01
   2 | WINDOW SORT
                                 14
                                       462
                                                  (50)
00:00:01
       WINDOW SORT
                                 14
   3
                                       462
                                                  (50)
00:00:01
         TABLE ACCESS FULL EMP
                                 14
                                       462
4
                                                   (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> /
           DEPTNO
                    SAL EMPRANKORG EMPRANKDEPT
                    1300
MILLER
              10
CLARK
               10 2450
```

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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

Time
1
•
_

Note

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

SQL> cl scr

SQL> SELECT *

2 FROM

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```
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 Time	Na	me Ro	ows E	ytes Co	ost (%CPU)
0 SELECT STATEMENT 00:00:01			14	644	5 (40)
1 SORT ORDER BY 00:00:01			14	644	5 (40)
* 2 VIEW 00:00:01			14	644	4 (25)

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```
| * 3 | WINDOW SORT PUSHED RANK | 14 | 462 | 4 (25) |
00:00:01
4 |
           TABLE ACCESS FULL | EMP | 14 | 462 |
00:00:01
Predicate Information (identified by operation id):
  2 - filter("TOP Sal"<=3)</pre>
   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
   SELECT Ename, Deptno, Sal
    RANK()
  6
    OVER
  7
  8
          PARTITION BY DeptNo
  9
          ORDER BY Sal DESC
          ) "TOP Sal"
 10
 11 FROM Emp
 12
    )
 13 WHERE "TOP Sal" <= 3
 14* ORDER BY DeptNo, Sal DESC
SQL> /
              DEPTNO
                                TOP Sal
ENAME
                           SAL
                 10
                         5000
KING
                 10
                         2450
CLARK
MILLER
                 10
                         1300
                                       3
                 20
FORD
                          3000
                                       1
SCOTT
                 20
                          3000
                                       1
JONES
                 20
                          2975
BLAKE
                 30
                          2850
```

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```
30 1600
30 1500
ALLEN
TURNER
                                   3
9 rows selected.
Execution Plan
_____
Plan hash value: 3291446077
                             | Name | Rows | Bytes | Cost (%CPU)|
| Id | Operation
Time |
0 | SELECT STATEMENT
                                                      4 (25)
00:00:01
|* 1 | VIEW
                                             644
                                                      4 (25)
00:00:01
| * 2 | WINDOW SORT PUSHED RANK |
                                             462
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)</pre>
  2 - filter(RANK() OVER ( PARTITION BY "DEPTNO" ORDER BY
            INTERNAL_FUNCTION("SAL") DESC )<=3)</pre>
Note
  - dynamic sampling used for this statement (level=2)
SQL> SELECT *
 2 FROM
   SELECT Ename, Deptno, Sal,
 5
   DENSE_RANK()
 6
     OVER
 7
```

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PARTITION BY DeptNo ORDER BY Sal DESC 9 10) "TOP Sal" 11 FROM Emp 12) 13 WHERE "TOP Sal" IN(3) 14 ORDER BY DeptNo, Sal DESC; SAL TOP Sal ENAME DEPTNO _______ 10 1300 20 1100 30 1500 MILLER ADAMS TURNER 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 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)</pre>

Note

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```
- dynamic sampling used for this statement (level=2)
SQL> BREAK ON Deptno SKIP 1
SOL> SELECT *
  2 FROM
  3
    (
  4
    SELECT Deptno, Ename, Sal,
  5
    DENSE_RANK()
  б
    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
                                          3
           MILLER
                            1300
        20 SCOTT
                            3000
           FORD
                            3000
                                          1
                                          3
           ADAMS
                            1100
        30 BLAKE
                            2850
                            1500
           TURNER
7 rows selected.
Execution Plan
Plan hash value: 4130734685
     Operation
                            | Name | Rows | Bytes | Cost (%CPU) | Time
```

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```
0 | SELECT STATEMENT | 14 | 644 | 4 (25)|
00:00:01
                    | 14 | 644 | 4 (25)|
|* 1 | VIEW
00:00:01
2 | WINDOW SORT |
                              14 | 462 |
                                          4 (25)
00:00:01
3 TABLE ACCESS FULL EMP 14
                                   462 |
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
SOL> SELECT *
 2 FROM
 3 (
 4 SELECT Deptno, Ename, Sal, HireDate,
 5 DENSE_RANK()
 6 OVER
 7
     PARTITION BY DeptNo
 8
 9
        ORDER BY HireDate
    ) "Seniors"
10
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
              800 17-DEC-80
1600 20-FEB-81
     20 SMITH
    30 ALLEN
```

Execution Plan

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```
Plan hash value: 1016020763
| Id | Operation
                           | Name | Rows | Bytes | Cost (%CPU) |
Time |
0 | SELECT STATEMENT | 14 |
                                            770
00:00:01
| 1 | SORT ORDER BY | 14 |
                                            770 l
                                                       (40)
00:00:01
                                            770
|* 2 | VIEW
                                                     4 (25)
00:00:01 |
| * 3 | WINDOW SORT PUSHED RANK |
                                            588
                                                    4 (25)
00:00:01 |
4 TABLE ACCESS FULL EMP
                                           588 |
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)
SOL> SELECT *
 2 FROM
 3 (
 4 SELECT Deptno, Ename, Sal, HireDate,
 5 DENSE_RANK()
 6
    OVER
 7
       PARTITION BY DeptNo
        ORDER BY HireDate DESC
 10
         ) "Juniors"
   FROM Emp
 11
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	Name Ro	we E	Bytes Co	ost (%CPU)	
Time	Name Ro	WS	syces co	DSC (*CFO)	
0 SELECT STATEMENT		14	770	4 (25)	
00:00:01 * 1 VIEW		14	770	4 (25)	
00:00:01		T-T	770	4 (23)	
* 2 WINDOW SORT PUSHED RANK	K	14	588	4 (25)	
00:00:01	I HMD	14	roo l	2 (0)	
3 TABLE ACCESS FULL 00:00:01	EMP	14	588	3 (0)	

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)

SOL> SPOOL OFF

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Sathish Yellanki

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(SQL And PL/SQL)

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Contact Details

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