Annoucing New Batch

ORACLE 11g (SQL, PL/SQL)

(With Industry Oriented Problem Solution Approach)



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```
SQL> cl scr
SOL> SELECT
  2 Ename,
  3 HireDate,
  4 COUNT(*)
  5
   OVER
  6
     (
  7
    ORDER BY HireDate ASC
 8
    RANGE 100 PRECEDING
 9
    ) HireCnt
10 FROM Emp
11 ORDER BY HireDate ASC;
```

HIREDATE	HIRECNT
17-DEC-80	1
20-FEB-81	2
22-FEB-81	3
02-APR-81	3
01-MAY-81	4
09-JUN-81	3
08-SEP-81	2
28-SEP-81	2
17-NOV-81	3
03-DEC-81	5
03-DEC-81	5
23-JAN-82	4
09-DEC-82	1
12-JAN-83	2
	17-DEC-80 20-FEB-81 22-FEB-81 02-APR-81 01-MAY-81 09-JUN-81 08-SEP-81 28-SEP-81 17-NOV-81 03-DEC-81 03-DEC-81 23-JAN-82 09-DEC-82

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT
2 Ename,
3 HireDate,
4 HireDate - 100 "100Days",
5 COUNT(*)
6 OVER
7 (
8 ORDER BY HireDate ASC
9 RANGE 100 PRECEDING
10 ) HireCnt
```

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.....

```
11 FROM Emp
12* ORDER BY HireDate ASC
SQL> /
```

ENAME	HIREDATE	100Days	HIRECNT
SMITH	17-DEC-80	08-SEP-80	1
ALLEN	20-FEB-81	12-NOV-80	2
WARD	22-FEB-81	14-NOV-80	3
JONES	02-APR-81	23-DEC-80	3
BLAKE	01-MAY-81	21-JAN-81	4
CLARK	09-JUN-81	01-MAR-81	3
TURNER	08-SEP-81	31-MAY-81	2
MARTIN	28-SEP-81	20-JUN-81	2
KING	17-NOV-81	09-AUG-81	3
JAMES	03-DEC-81	25-AUG-81	5
FORD	03-DEC-81	25-AUG-81	5
MILLER	23-JAN-82	15-OCT-81	4
SCOTT	09-DEC-82	31-AUG-82	1
ADAMS	12-JAN-83	04-OCT-82	2

14 rows selected.

```
SQL> ED
```

Wrote file afiedt.buf

```
SELECT
1
2 Ename,
 3 HireDate,
 4 HireDate - 100 "100Days
 5
  COUNT(*)
 6 OVER
 7
   ORDER BY HireDate ASC
8
9
   RANGE 100 PRECEDING
   ) HireCnt,
10
11 SUM(Sal)
12 OVER
13
   ORDER BY HireDate ASC
14
15
    RANGE 100 PRECEDING
16
   ) "100DaysSum",
17
   AVG(Sal)
18 OVER
19
20
    ORDER BY HireDate ASC
    RANGE 100 PRECEDING
```

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```
22 ) "100DaysAvg"
23 FROM Emp
24* ORDER BY HireDate ASC
SQL> /.
```

ENAME	HIREDATE	100Days	HIRECNT	100DaysSum	100DaysAvg
SMITH	17-DEC-80	08-SEP-80	1	800	800
ALLEN	20-FEB-81	12-NOV-80	2	2400	1200
WARD	22-FEB-81	14-NOV-80	3	3650	1216.66667
JONES	02-APR-81	23-DEC-80	3	5825	1941.66667
BLAKE	01-MAY-81	21-JAN-81	4	8675	2168.75
CLARK	09-JUN-81	01-MAR-81	3	8275	2758.33333
TURNER	08-SEP-81	31-MAY-81	2	3950	1975
MARTIN	28-SEP-81	20-JUN-81	2	2750	1375
KING	17-NOV-81	09-AUG-81	3	7750	2583.33333
JAMES	03-DEC-81	25-AUG-81	5	11700	2340
FORD	03-DEC-81	25-AUG-81	5	11700	2340
MILLER	23-JAN-82	15-OCT-81	4	10250	2562.5
SCOTT	09-DEC-82	31-AUG-82	1	3000	3000
ADAMS	12-JAN-83	04-OCT-82	2	4100	2050

14 rows selected.

```
SQL> ED
```

Wrote file afiedt.buf

```
1 SELECT
2 Ename,
 3 HireDate,
 4 Sal,
 5 COUNT(*)
 6
   OVER
 7
   (
   ORDER BY HireDate ASC
8
9
   RANGE 100 PRECEDING
10
    ) HireCnt,
11 SUM(Sal)
12 OVER
13
14
    ORDER BY HireDate ASC
15
   RANGE 100 PRECEDING
16
   ) "100DaysSum",
17 AVG(Sal)
18 OVER
19
    (
20
    ORDER BY HireDate ASC
```

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.....

```
RANGE 100 PRECEDING
22
   ) "100DaysAvg"
23 FROM Emp
24* ORDER BY HireDate ASC
SQL> /
```

ENAME	HIREDATE	SAL	HIRECNT	100DaysSum	100DaysAvg
SMITH	17-DEC-80	800	1	800	800
ALLEN	20-FEB-81	1600	2	2400	1200
WARD	22-FEB-81	1250	3	3650	1216.66667
JONES	02-APR-81	2975	3	5825	1941.66667
BLAKE	01-MAY-81	2850	4	8675	2168.75
CLARK	09-JUN-81	2450	3	8275	2758.33333
TURNER	08-SEP-81	1500	2	3950	1975
MARTIN	28-SEP-81	1250	2	2750	1375
KING	17-NOV-81	5000	3	7750	2583.33333
JAMES	03-DEC-81	950	5	11700	2340
FORD	03-DEC-81	3000	5	11700	2340
MILLER	23-JAN-82	1300	4	10250	2562.5
SCOTT	09-DEC-82	3000	1	3000	3000
ADAMS	12-JAN-83	1100	2	4100	2050

14 rows selected.

SQL> cl scr

SOL> SELECT

- 2 Ename,
 - 3 HireDate,
 - 4 Sal,
 - 5 LAG(Sal)
 - 6 OVER
 - 7 (
 - 8 ORDER BY HireDate
 - 9) PreSal
- 9 , _. 10 FROM Emp;

	_		
ENAME	HIREDATE	SAL	PRESAL
SMITH	17-DEC-80	800	
ALLEN	20-FEB-81	1600	800
WARD	22-FEB-81	1250	1600
JONES	02-APR-81	2975	1250
BLAKE	01-MAY-81	2850	2975
CLARK	09-JUN-81	2450	2850
TURNER	08-SEP-81	1500	2450

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MARTIN	28-SEP-81	1250	1500
KING	17-NOV-81	5000	1250
JAMES	03-DEC-81	950	5000
FORD	03-DEC-81	3000	950
MILLER	23-JAN-82	1300	3000
SCOTT	09-DEC-82	3000	1300
ADAMS	12-JAN-83	1100	3000

14 rows selected.

SQL> SELECT
2 Ename,
3 HireDate,
4 Sal,
5 LAG(Sal, 1, 0)
6 OVER
7 (
8 ORDER BY HireDate
9) PreSal
10 FROM Emp;

ENAME	HIREDATE	SAL	PRESAL
SMITH	17-DEC-80	800	0
ALLEN	20-FEB-81	1600	800
WARD	22-FEB-81	1250	1600
JONES	02-APR-81	2975	1250
BLAKE	01-MAY-81	2850	2975
CLARK	09-JUN-81	2450	2850
TURNER	08-SEP-81	1500	2450
MARTIN	28-SEP-81	1250	1500
KING	17-NOV-81	5000	1250
JAMES	03-DEC-81	950	5000
FORD	03-DEC-81	3000	950
MILLER	23-JAN-82	1300	3000
SCOTT	09-DEC-82	3000	1300
ADAMS	12-JAN-83	1100	3000

14 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT
- 2 Ename,
- 3 HireDate,
- 4 Sal,

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```
5 LAG(Sal, 2, 0)
6 OVER
7 (
8 ORDER BY HireDate
9 ) PreSal
10* FROM Emp
SQL> /
```

ENAME	HIREDATE	SAL	PRESAL
SMITH	17-DEC-80	800	0
ALLEN	20-FEB-81	1600	0
WARD	22-FEB-81	1250	800
JONES	02-APR-81	2975	1600
BLAKE	01-MAY-81	2850	1250
CLARK	09-JUN-81	2450	2975
TURNER	08-SEP-81	1500	2850
MARTIN	28-SEP-81	1250	2450
KING	17-NOV-81	5000	1500
JAMES	03-DEC-81	950	1250
FORD	03-DEC-81	3000	5000
MILLER	23-JAN-82	1300	950
SCOTT	09-DEC-82	3000	3000
ADAMS	12-JAN-83	1100	1300

14 rows selected.

```
SQL> cl scr
```

- SQL> SELECT
- 2 Ename,
 - 3 HireDate,
 - 4 Sal,
 - 5 LEAD(Sal)
 - 6 OVER
 - 7
 - 8 ORDER BY HireDate
 - 9) NextSal
- 10 FROM Emp;

ENAME	HIREDATE	SAL	NEXTSAL
SMITH	17-DEC-80	800	1600
ALLEN	20-FEB-81	1600	1250
WARD	22-FEB-81	1250	2975
JONES	02-APR-81	2975	2850
BLAKE	01-MAY-81	2850	2450

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		IT allieu by	Mr.Sathish Yellanki
09-JUN-81 08-SEP-81 28-SEP-81 17-NOV-81 03-DEC-81 03-DEC-81 23-JAN-82 09-DEC-82 12-JAN-83	2450 1500 1250 5000 950 3000 1300 3000 1100	1500 1250 5000 950 3000 1300 3000 1100	
e afiedt.buf			i BAI
Date, Date, Sal) ER BY HireDate revSal, (Sal) ER BY HireDate extSal Emp	29/1/1	76	
HIREDATE	PREVSAL	SAL 	NEXTSAL
17-DEC-80 20-FEB-81 22-FEB-81 02-APR-81 01-MAY-81 09-JUN-81 08-SEP-81 28-SEP-81 17-NOV-81 03-DEC-81 03-DEC-81 23-JAN-82	800 1600 1250 2975 2850 2450 1500 1250 5000 950 3000	800 1600 1250 2975 2850 2450 1500 1250 5000 950 3000 1300	1600 1250 2975 2850 2450 1500 1250 5000 950 3000 1300 3000
	08-SEP-81 28-SEP-81 17-NOV-81 03-DEC-81 03-DEC-81 23-JAN-82 09-DEC-82 12-JAN-83 elected. e afiedt.buf CT e, Date, Sal) CR BY HireDate extSal, (Sal) CR BY HireDate extSal Emp HIREDATE	08-SEP-81 1500 28-SEP-81 1250 17-NOV-81 5000 03-DEC-81 950 03-DEC-81 3000 23-JAN-82 1300 09-DEC-82 3000 12-JAN-83 1100 elected. Earliedt.buf CT e, Date, Sal) CR BY HireDate extSal Emp HIREDATE PREVSAL	08-SEP-81 1500 1250 28-SEP-81 1250 5000 17-NOV-81 5000 950 03-DEC-81 950 3000 03-DEC-81 3000 1300 23-JAN-82 1300 3000 09-DEC-82 3000 1100 12-JAN-83 1100 elected. Earliedt.buf CT e, Date, Sal) CR BY HireDate ExtSal Emp HIREDATE PREVSAL SAL

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```
.....
ADAMS 12-JAN-83 3000
                              1100
14 rows selected.
SOL> ED
Wrote file afiedt.buf
 1 SELECT
 2 Ename,
 3 HireDate,
 4 Sal,
 5 LEAD(Sal, 1, 0)
 6 OVER
 7
    (
 8
   ORDER BY HireDate
 9 ) NextSalO1,
10 LEAD(Sal, 2, 0)
11 OVER
12 (
13 ORDER BY HireDate
14 ) NextSal02,
15 LEAD(Sal, 3, 0)
16 OVER
17
   (
18 ORDER BY HireDate
19
   ) NextSal03,
20 LEAD(Sal, 4, 0)
21 OVER
22
23 ORDER BY HireDate
24 ) NextSal04,
25 LEAD(Sal, 5, 0)
26 OVER
27 (
28 ORDER BY HireDate
29 ) NextSal05
30* FROM Emp
SQL> /
                       SAL NEXTSAL01 NEXTSAL02 NEXTSAL03
ENAME
NEXTSAL04 NEXTSAL05
SMITH
        17-DEC-80
                     800
                              1600
                                       1250
                                                2975
       2450
2850
        20-FEB-81 1600
                              1250
                                        2975
ALLEN
                                                 2850
         1500
```

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••••••				• • • • • • • • • • • • • • • • • • • •		••••
WARD	22-FEB-81	1250	2975	2850	2450	
1500 JONES	1250 02-APR-81	2975	2850	2450	1500	
1250 BLAKE	5000 01-MAY-81	2850	2450	1500	1250	
5000 CLARK	950 09-JUN-81	2450	1500	1250	5000	
950 TURNER	3000 08-SEP-81	1500	1250	5000	950	
3000	1300 28-SEP-81	1250			()	
MARTIN 1300	3000		5000	950	3000	
KING 3000	17-NOV-81 1100	5000	950	3000	1300	
JAMES 1100	03-DEC-81 0	950	3000	1300	3000	
FORD 0	03-DEC-81 0	3000	1300	3000	1100	
MILLER	23-JAN-82 0	1300	3000	1100	0	
0 SCOTT	09-DEC-82	3000	1100	0	0	
0 ADAMS	0 12-JAN-83	1100	0	0	0	
0	0					

14 rows selected.

ENAME	HIREDATE	SAL	DIFFPRESAL
SMITH	17-DEC-80	800	800
ALLEN	20-FEB-81	1600	800
WARD	22-FEB-81	1250	-350
JONES	02-APR-81	2975	1725
BLAKE	01-MAY-81	2850	-125

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```
.....
CLARK
          09-JUN-81
                          2450
                                     -400
TURNER
          08-SEP-81
                          1500
                                     -950
                                    -250
MARTIN
          28-SEP-81
                          1250
KING
          17-NOV-81
                          5000
                                     3750
JAMES
          03-DEC-81
                          950
                                    -4050
FORD
          03-DEC-81
                          3000
                                    2050
                          1300
MILLER
          23-JAN-82
                                    -1700
SCOTT
          09-DEC-82
                          3000
                                    1700
ADAMS
          12-JAN-83
                          1100
                                    -1900
14 rows selected.
SQL> SELECT
  2 Ename,
  3 HireDate,
    Sal,
    Sal - LEAD(Sal, 1, 0)
  5
  6
     OVER
  7
  8
           ORDER BY HireDate
  9
           ) DiffNextSal
 10
    FROM Emp;
ENAME
          HIREDATE
                           SAL DIFFNEXTSAL
                                      -800
SMITH
          17-DEC-80
                           800
ALLEN
          20-FEB-81
                         1600
                                       350
WARD
          22-FEB-81
                          1250
                                     -1725
JONES
          02-APR-81
                          2975
                                       125
          01-MAY-81
                          2850
                                       400
BLAKE
          09-JUN-81
                          2450
                                       950
CLARK
TURNER
          08-SEP-81
                          1500
                                       250
          28-SEP-81
MARTIN
                          1250
                                     -3750
KING
          17-NOV-81
                          5000
                                     4050
          03-DEC-81
JAMES
                           950
                                     -2050
          03-DEC-81
FORD
                          3000
                                     1700
          23-JAN-82
                          1300
                                     -1700
MILLER
          09-DEC-82
                          3000
SCOTT
                                     1900
          12-JAN-83
                          1100
ADAMS
                                     1100
14 rows selected.
SQL> cl scr
SQL> COLUMN Remarks FORMAT A30
SOL> SELECT
  2 E1.Ename,
```

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```
3
    E1.HireDate,
  4
    E1.Sal,
  5
    ABS (E1.DiffNExtSal) | | DECODE
  7
                             SIGN (E1.DiffNextSal),
  8
                             1, ' More Than Next Salary.',
  9
                             -1, 'Less Than Next Salary.',
 10
                             ' Salaries Equal.'
 11
                             ) Remarks
 12
     FROM
 13
     (
 14
     SELECT
 15
     Ename,
 16
     HireDate,
 17
     Sal,
     Sal - LEAD(Sal, 1, 0)
 18
 19
           OVER
 20
 21
                 ORDER BY HireDate
 22
                 ) DiffNextSal
 23
     FROM Emp
 24
     ) E1;
ENAME
                            SAL REMARKS
                            800 800 Less Than Next Salary.
SMITH
           17-DEC-80
                           1600 350 More Than Next Salary.
ALLEN
           20-FEB-81
WARD
          22-FEB-81
                          1250 1725 Less Than Next Salary.
                           2975 125 More Than Next Salary.
JONES
          02-APR-81
                          2850 400 More Than Next Salary.
BLAKE
           01-MAY-81
CLARK
           09-JUN-81
                           2450 950 More Than Next Salary.
TURNER
           08-SEP-81
                          1500 250 More Than Next Salary.
           28-SEP-81
                           1250 3750 Less Than Next Salary.
MARTIN
           17-NOV-81
KING
                           5000 4050 More Than Next Salary.
JAMES
           03-DEC-81
                           950 2050 Less Than Next Salary.
           03-DEC-81
FORD
                          3000 1700 More Than Next Salary.
          23-JAN-82
                           1300 1700 Less Than Next Salary.
MILLER
SCOTT
           09-DEC-82
                           3000 1900 More Than Next Salary.
           12-JAN-83
                           1100 1100 More Than Next Salary.
ADAMS
14 rows selected.
SQL> cl scr
SQL> COLUMN Remarks FORMAT A40
SOL> SELECT
  2 El.Deptno,
```

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```
3 E1.DeptSalSum,
  4
    ABS(E1.DeptSalSum - NextSal)||
  5
    DECODE
  6
     (
  7
     NVL
  8
  9
           SIGN(E1.DeptSalSum - NextSal), 0
 10
     1, ' More Budget Than Next Department',
 11
     -1, ' Less Budget Than Next Department',
 12
 13
     0, ' Terminating Department'
 14
    ) Remarks
 15 FROM
 16
     (
 17
    SELECT
 18
    Deptno,
     SUM(Sal) DeptSalSum,
 19
 20
     LEAD(SUM(Sal), 1, NULL)
 21 OVER
 22
 23
           ORDER BY Deptno
 24
           ) NextSal
 25
    FROM Emp
 26
     GROUP BY Deptno
 27
     ) E1;
    DEPTNO DEPTSALSUM REMARKS
                 8750 2125 Less Budget Than Next Department
        10
        20
                10875 1475 More Budget Than Next Department
        30
                 9400 Terminating Department
SOL> cl scr
SQL> BREAK ON Deptno SKIP 1
SQL> COLUMN DaysDiff FORMAT A40
SQL> COLUMN DEPTNO FORMAT 99
SQL> COLUMN ENAME FORMAT A10
SQL> SELECT
  2 Deptno,
  3
    Ename,
  4
    HireDate,
  5 LAG(HireDate, 1, NULL)
  6 OVER
  7
  8
    PARTITION BY Deptno
     ORDER BY HireDate, Ename
```

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```
) Last Hire,
 11 NVL
 12
    (
 13
     HireDate - LAG(HireDate, 1, Null)
 14
                      OVER
 15
 16
                           PARTITION BY Deptno
 17
                           ORDER BY HireDate, Ename
 18
                           ), 0
 19
    ) | | ' Days of Difference.' DaysDiff
 20 FROM Emp
 21
    ORDER BY DeptNo, HireDate;
DEPTNO ENAME
                 HIREDATE LAST HIRE DAYSDIFF
10 CLARK
                 09-JUN-81
                                     O Days of Difference.
      KING
                 17-NOV-81 09-JUN-81 161 Days of Difference.
      MILLER
                 23-JAN-82 17-NOV-81 67 Days of Difference.
                                     0 Days of Difference.
   20 SMITH
                 17-DEC-80
                 02-APR-81 17-DEC-80 106 Days of Difference.
      JONES
      FORD
                 03-DEC-81 02-APR-81 245 Days of Difference.
                 09-DEC-82 03-DEC-81 371 Days of Difference.
      SCOTT
      ADAMS
                 12-JAN-83 09-DEC-82 34 Days of Difference.
   30 ALLEN
                 20-FEB-81
                                   O Days of Difference.
                 22-FEB-81 20-FEB-81 2 Days of Difference.
      WARD
                 01-MAY-81 22-FEB-81 68 Days of Difference.
      BLAKE
                 08-SEP-81 01-MAY-81 130 Days of Difference.
      TURNER
                 28-SEP-81 08-SEP-81 20 Days of Difference.
      MARTIN
                 03-DEC-81 28-SEP-81 66 Days of Difference.
      JAMES
14 rows selected.
SQL> cl scr
SOL> SELECT
  2 Ename,
  3
    Deptno,
  4
    Sal,
  5
   FIRST VALUE (Ename)
  6
   OVER
  7
  8
    PARTITION BY DeptNo
  9
     ORDER BY Sal DESC
```

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```
10 ) FIRST VALUE
```

12 ORDER BY Deptno, Sal DESC, Ename DESC;

ENAME	DEPTNO	SAL	FIRST_	VALU
KING CLARK MILLER	10	2450	KING KING KING	
SCOTT FORD JONES ADAMS SMITH	20	2975 1100	SCOTT SCOTT SCOTT SCOTT SCOTT	
BLAKE ALLEN TURNER WARD MARTIN JAMES	30	1600 1500 1250	BLAKE BLAKE BLAKE BLAKE BLAKE BLAKE	

14 rows selected.

ENAME

```
SQL> COL DeptNo DUP
SP2-0158: unknown COLUMN option "DUP"
SQL> SET DeptNo DUP
SP2-0158: unknown SET option "DeptNo"
SQL> BREAK ON DeptNo DUp
SQL> cl scr
SOL> SELECT
  2 Ename,
  3 Deptno,
  4
    Sal,
  5
    FIRST VALUE (Ename)
  6
    OVER
  8
     PARTITION BY DeptNo
  9
    ORDER BY Sal DESC
 10
       FIRST VALUE
 11
    FROM Emp
 12 ORDER BY Deptno, Sal DESC, Ename DESC;
```

DEPTNO

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SAL FIRST VALU

¹¹ FROM Emp

```
KING
             10
                     5000 KING
            10
                     2450 KING
CLARK
MILLER
            10
                    1300 KING
SCOTT
            20
                     3000 SCOTT
            20
FORD
                     3000 SCOTT
            20
                    2975 SCOTT
JONES
ADAMS
            20
                    1100 SCOTT
            20
                     800 SCOTT
SMITH
BLAKE
            30
                     2850 BLAKE
            30
                    1600 BLAKE
ALLEN
TURNER
            30
                    1500 BLAKE
WARD
            30
                    1250 BLAKE
MARTIN
             30
                    1250 BLAKE
             30
                     950 BLAKE
JAMES
14 rows selected.
SOL> ED
Wrote file afiedt.buf
 1 SELECT
 2 Ename,
  3 Deptno,
  4 Sal,
  5 FIRST VALUE (Ename)
  6
   OVER
  7
    (
 8
   PARTITION BY DeptNo
 9
   ORDER BY Sal DESC
 10 ) FIRST VALUE,
 11 LAST VALUE (Ename)
 12 OVER
 13 (
 14 PARTITION BY DeptNo
 15 ORDER BY Sal DESC
 16 ) LAST VALUE
 17 FROM Emp
 18* ORDER BY Deptno, Sal DESC, Ename DESC
SOL> /
                SAL FIRST VALU LAST_VALUE
ENAME
         DEPTNO
         ----- ------ ----- -----
                    5000 KING
KING
            10
                                  KING
            10
CLARK
                    2450 KING
                                  CLARK
```

MILLER

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http://yellankisathish.com/

1300 KING

3000 SCOTT

MILLER

10

20

••••••		•••••	•••••		
FORD JONES ADAMS SMITH BLAKE ALLEN TURNER WARD MARTIN JAMES	20 20 20 20 30 30 30 30 30 30 30	2975 1100 800 2850 1600 1500 1250	SCOTT SCOTT SCOTT SCOTT BLAKE BLAKE BLAKE BLAKE BLAKE BLAKE BLAKE	FORD JONES ADAMS SMITH BLAKE ALLEN TURNER MARTIN MARTIN JAMES	(65)
14 rows select	ed.				
SQL> ED Wrote file afi	edt.buf				12/2
9 ORDER BY 10) FIRST 11 LAST_VALU 12 OVER 13 (14 PARTITION 15 ORDER BY 16 ROWS BETM 17 UNBOUNDER	N BY Depth Sal DESC _VALUE, E(Ename) N BY Depth Sal DESC WEEN D PRECEDIN D FOLLOWIN	NO NG ANI NG		ESC	
ENAME DEP	TNO	SAL	FIRST_VALU	LAST_VALUE	
KING CLARK MILLER SCOTT FORD JONES	10 10 10 20 20 20	2450 1300 3000 3000	KING KING KING SCOTT SCOTT	MILLER MILLER MILLER SMITH SMITH SMITH	

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..... 1100 SCOTT ADAMS 20 SMTTH SMITH 20 800 SCOTT SMITH 30 2850 BLAKE BLAKE **JAMES** ALLEN 30 1600 BLAKE **JAMES** 30 1500 BLAKE TURNER JAMES 1250 BLAKE 30 WARD **JAMES** 30 1250 BLAKE MARTIN **JAMES** JAMES 30 950 BLAKE **JAMES** 14 rows selected. SOL> ED Wrote file afiedt.buf 1 SELECT 2 Ename, 3 Deptno, 4 Sal, 5 FIRST VALUE(Ename) OVER 6 7 8 PARTITION BY DeptNo 9 ORDER BY Sal DESC 10 ROWS BETWEEN 11 UNBOUNDED PRECEDING AND 12 UNBOUNDED FOLLOWING 13) FIRST VALUE, 14 LAST VALUE (Ename) 15 OVER 16 (17 PARTITION BY DeptNo 18 ORDER BY Sal DESC 19 ROWS BETWEEN 20 UNBOUNDED PRECEDING AND 21 UNBOUNDED FOLLOWING 22) LAST VALUE 23 FROM Emp 24* ORDER BY Deptno, Sal DESC, Ename DESC SQL> / DEPTNO ENAME SAL FIRST_VALU LAST_VALUE 10 5000 KING KING MILLER 10 CLARK 2450 KING MTTTER 10 1300 KING MILLER MILLER 20 SCOTT 3000 SCOTT SMITH 20 3000 SCOTT

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JONES	20	2975 SCOTT	SMITH
ADAMS	20	1100 SCOTT	SMITH
SMITH	20	800 SCOTT	SMITH
BLAKE	30	2850 BLAKE	JAMES
ALLEN	30	1600 BLAKE	JAMES
TURNER	30	1500 BLAKE	JAMES
WARD	30	1250 BLAKE	JAMES
MARTIN	30	1250 BLAKE	JAMES
JAMES	30	950 BLAKE	JAMES

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT
2 Ename,
3 Deptno,
4 Sal,
5 SUM(Sal)
6 OVER
7 (
8 ORDER BY Sal DESC, Empno
9 ) RunSal
10* FROM Emp
SQL> /
```

ENAME	DEPTNO	SAL	RUNSAL
KING	10	5000	5000
SCOTT	20	3000	8000
FORD	20	3000	11000
JONES	20	2975	13975
BLAKE	30	2850	16825
CLARK	10	2450	19275
ALLEN	30	1600	20875
TURNER	30	1500	22375
MILLER	10	1300	23675
WARD	30	1250	24925
MARTIN	30	1250	26175
ADAMS	20	1100	27275
JAMES	30	950	28225
SMITH	20	800	29025

14 rows selected.

SQL> ED

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```
Wrote file afiedt.buf
```

- SELECT 1 2 Ename, 3 Deptno, 4 Sal, 5 SUM(Sal) 6 OVER 7 (ORDER BY Sal DESC, Empno 8 9 ROWS BETWEEN 10 UNBOUNDED PRECEDING AND 11 UNBOUNDED FOLLOWING 12) RunSal 13* FROM Emp
- DEPTNO SAL RUNSAL ENAME 5000 29025 KING 10 20 3000 29025 SCOTT FORD 20 3000 29025 JONES 20 2975 29025 30 BLAKE 2850 29025 CLARK 10 2450 29025 30 29025 ALLEN 1600 29025 TURNER 30 1500 10 1300 29025 MILLER WARD 30 1250 29025 30 1250 29025 MARTIN 20 1100 29025 ADAMS 950 JAMES 30 29025 800 SMITH 20 29025

14 rows selected.

SQL> ED

SQL> /

Wrote file afiedt.buf

- 1 SELECT
- 2 Ename,
- 3 Deptno,
- 4 Sal,
- 5 SUM(Sal)
- 6 OVER
- 7
- 8 ORDER BY Sal DESC, Empno

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- 9 ROWS BETWEEN
- 10 UNBOUNDED PRECEDING AND
- 11 0 FOLLOWING
- 12) RunSal
- 13* FROM Emp

SQL> /

ENAME	DEPTNO	SAL	RUNSAL
KING	10	5000	5000
SCOTT	20	3000	8000
FORD	20	3000	11000
JONES	20	2975	13975
BLAKE	30	2850	16825
CLARK	10	2450	19275
ALLEN	30	1600	20875
TURNER	30	1500	22375
MILLER	10	1300	23675
WARD	30	1250	24925
MARTIN	30	1250	26175
ADAMS	20	1100	27275
JAMES	30	950	28225
SMITH	20	800	29025

14 rows selected.

SOL> ED

Wrote file afiedt.buf

- 1 SELECT
- 2 Ename,
- 3 Deptno,
- 4 Sal,
- 5 SUM(Sal)
- 6 OVER
- 7
- 8 ORDER BY Sal DESC, Empno
- 9 ROWS BETWEEN
- 10 0 PRECEDING AND
- 11 UNBOUNDED FOLLOWING
- 12) RunSal
- 13* FROM Emp
- SQL> /

ENAME	DEPTNO	SAL	RUNSAL
KING	10	5000	29025

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SCOTT	20	3000	24025
FORD	20	3000	21025
JONES	20	2975	18025
BLAKE	30	2850	15050
CLARK	10	2450	12200
ALLEN	30	1600	9750
TURNER	30	1500	8150
MILLER	10	1300	6650
WARD	30	1250	5350
MARTIN	30	1250	4100
ADAMS	20	1100	2850
JAMES	30	950	1750
SMITH	20	800	800

14 rows selected.

SQL> ED

Wrote file afiedt.buf

- 1 SELECT
- 2 Ename,
- 3 Deptno,
- 4 Sal,
- 5 SUM(Sal)
- 6 OVER
- 7
- 8 ORDER BY Sal DESC, Empno
- 9 ROWS BETWEEN
- 10 1 PRECEDING AND
- 11 1 FOLLOWING
- 12) RunSal
- 13* FROM Emp
- SQL> /

ENAME	DEPTNO	SAL	RUNSAL
KING	10	5000	8000
SCOTT	20	3000	11000
FORD	20	3000	8975
JONES	20	2975	8825
BLAKE	30	2850	8275
CLARK	10	2450	6900
ALLEN	30	1600	5550
TURNER	30	1500	4400
MILLER	10	1300	4050
WARD	30	1250	3800
MARTIN	30	1250	3600

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	Spool F	ile For Oracle St	udents Trained b	oy Mr.Sathish Yell	anki
ADAMS JAMES SMITH	20 30 20	1100 950 800	3300 2850 1750		
14 rows sel	ected.				
SQL> cl scr					
SQL> SELECT 2 ROW_NU 3 OVER 4 (5 ORDER 6 NULLS 7) Rowl 8 Ename, 9 Deptno 10 FROM E	MBER() BY Sal DI LAST No,	ESC		Akl	Skillie
ROWNO	ENAME	DEPTNO		(9)	
2 3 4 5 6 7 8 9 10 11 12 13 14	KING SCOTT FORD JONES BLAKE CLARK ALLEN TURNER MILLER WARD MARTIN ADAMS JAMES SMITH	10 20 20 20 30 10 30 30 10 30 30 20	191/6		
14 rows sel SQL> ED Wrote file 1 SELECT 2 ROW_NU 3 OVER 4 (afiedt.bu	f			

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5

PARTITION BY Deptno ORDER BY Sal DESC

```
Spool File For Oracle Students Trained by Mr.Sathish Yellanki
  .....
  7
     NULLS LAST
  8
     ) RowNo,
  9 Ename,
 10 Deptno
 11* FROM Emp
SOL> /
    ROWNO ENAME
        1 KING
                         10
        2 CLARK
                         10
        3 MILLER
                         10
        1 SCOTT
                         20
        2 FORD
                         20
        3 JONES
                         20
        4 ADAMS
                         20
        5 SMITH
                         20
        1 BLAKE
                         30
        2 ALLEN
                         30
        3 TURNER
                         30
                         30
        4 MARTIN
        5 WARD
                         30
         6 JAMES
                         30
14 rows selected.
SOL> ED
Wrote file afiedt.buf
    SELECT E1.*
  2
    FROM
  3
     (
  4
     SELECT
     ROW NUMBER ()
  5
  6
     OVER
  7
  8
           PARTITION BY Deptno
  9
           ORDER BY Sal DESC
          NULLS LAST
 10
          ) RowNo,
 11
     Ename,
 12
```

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13

14

15

SOL> /

Deptno

) E1

FROM Emp

16* WHERE E1.RowNo <= 3

..... ROWNO ENAME DEPTNO _____ ___ 1 KING 10 2 CLARK 10 3 MILLER 10 1 FORD 20 20 2 SCOTT 3 JONES 20 1 BLAKE 30 2 ALLEN 30 30 3 TURNER 9 rows selected. SQL> SELECT 2 Deptno, 3 MAX(DECODE(Seqno, 1, Ename, NULL)) First, 4 MAX(DECODE(Seqno, 2, Ename, NULL)) Second, 5 MAX(DECODE(Seqno, 3, Ename, NULL)) Third 6 FROM 7 (8 SELECT 9 Deptno, 10 Ename, 11 ROW NUMBER() 12 OVER 13 14 PARTITION BY Deptno ORDER BY Sal DESC NULLS LAST 15 16 SeqNo 17 FROM Emp 18) 19 WHERE SeqNo <= 3 20 GROUP BY Deptno; SECOND DEPTNO FIRST THIRD 10 KING CLARK MILLER 20 FORD SCOTT JONES

```
30 BLAKE
              ALLEN
                         TURNER
```

SQL> SPOOL OFF

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