

## Spool File For Oracle Students Prepared By Mr.Balram

```
SQL> SELECT
  2  ENAME,
  3  DEPTNO,
  4  SAL,
  5  FIRST_VALUE(ENAME)
  6  OVER
  7  (
  8  ORDER BY SAL DESC
  9  ) FIRST_VALUE
 10  FROM EMP
 11  ORDER BY DEPTNO,SAL DESC ,ENAME DESC;
```

ENAME	DEPTNO	SAL	FIRST_VALU
KING	10	5000	KING
CLARK	10	2450	KING
MILLER	10	1300	KING
SCOTT	20	3000	KING
FORD	20	3000	KING
JONES	20	2975	KING
ADAMS	20	1100	KING
SMITH	20	800	KING
BLAKE	30	2850	KING
ALLEN	30	1600	KING
TURNER	30	1500	KING

ENAME	DEPTNO	SAL	FIRST_VALU
WARD	30	1250	KING
MARTIN	30	1250	KING
JAMES	30	950	KING

14 rows selected.

```
SQL> SELECT
  2  ENAME,
  3  DEPTNO,
  4  SAL,
  5  FIRST_VALUE(ENAME)
  6  OVER
  7  (
  8  ORDER BY SAL DESC
  9  ) FIRST_VALUE,
 10  LAST_VALUE(ENAME)
 11  OVER
 12  (
 13  ORDER BY SAL DESC
 14  ) LAST_VALUE
 15  FROM EMP
 16  ORDER BY DEPTNO,SAL DESC ,ENAME DESC;
```

ENAME	DEPTNO	SAL	FIRST_VALU	LAST_VALUE
KING	10	5000	KING	KING

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CLARK	10	2450	KING	CLARK
MILLER	10	1300	KING	MILLER
SCOTT	20	3000	KING	SCOTT
FORD	20	3000	KING	SCOTT
JONES	20	2975	KING	JONES
ADAMS	20	1100	KING	ADAMS
SMITH	20	800	KING	SMITH
BLAKE	30	2850	KING	BLAKE
ALLEN	30	1600	KING	ALLEN
TURNER	30	1500	KING	TURNER

ENAME	DEPTNO	SAL	FIRST_VALU	LAST_VALUE
WARD	30	1250	KING	WARD
MARTIN	30	1250	KING	WARD
JAMES	30	950	KING	JAMES

14 rows selected.

```
SQL> 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;
```

ENAME	DEPTNO	SAL	FIRST_VALU	LAST_VALUE
KING	10	5000	KING	KING
CLARK	10	2450	KING	CLARK
MILLER	10	1300	KING	MILLER
SCOTT	20	3000	SCOTT	FORD
FORD	20	3000	SCOTT	FORD
JONES	20	2975	SCOTT	JONES
ADAMS	20	1100	SCOTT	ADAMS
SMITH	20	800	SCOTT	SMITH
BLAKE	30	2850	BLAKE	BLAKE
ALLEN	30	1600	BLAKE	ALLEN
TURNER	30	1500	BLAKE	TURNER

ENAME	DEPTNO	SAL	FIRST_VALU	LAST_VALUE
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WARD	30	1250	BLAKE	MARTIN
MARTIN	30	1250	BLAKE	MARTIN
JAMES	30	950	BLAKE	JAMES

14 rows selected.

```
SQL> SELECT
  2  ENAME,
  3  DEPTNO,
  4  SAL,
  5  LAST_VALUE (ENAME)
  6  OVER
  7  (
  8  ORDER BY SAL ASC
  9  ROWS BETWEEN
 10  UNBOUNDED PRECEDING AND
 11  UNBOUNDED FOLLOWING
 12  ) LAST_VALUE
 13  FROM EMP;
```

ENAME	DEPTNO	SAL	LAST_VALUE
SMITH	20	800	KING
JAMES	30	950	KING
ADAMS	20	1100	KING
WARD	30	1250	KING
MARTIN	30	1250	KING
MILLER	10	1300	KING
TURNER	30	1500	KING
ALLEN	30	1600	KING
CLARK	10	2450	KING
BLAKE	30	2850	KING
JONES	20	2975	KING

ENAME	DEPTNO	SAL	LAST_VALUE
SCOTT	20	3000	KING
FORD	20	3000	KING
KING	10	5000	KING

14 rows selected.

```
SQL> SELECT
  2  ENAME,
  3  DEPTNO,
  4  SAL,
  5  FIRST_VALUE (ENAME)
  6  OVER
  7  (
  8  ORDER BY SAL ASC
  9  ) FIRST_VALUE,
 10  LAST_VALUE (ENAME)
 11  OVER
 12  (
```

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```
13 ORDER BY SAL ASC
14 ROWS BETWEEN
15 UNBOUNDED PRECEDING AND
16 UNBOUNDED FOLLOWING
17 ) LAST_VALUE
18 FROM EMP;
```

ENAME	DEPTNO	SAL	FIRST_VALU	LAST_VALUE
SMITH	20	800	SMITH	KING
JAMES	30	950	SMITH	KING
ADAMS	20	1100	SMITH	KING
MARTIN	30	1250	SMITH	KING
WARD	30	1250	SMITH	KING
MILLER	10	1300	SMITH	KING
TURNER	30	1500	SMITH	KING
ALLEN	30	1600	SMITH	KING
CLARK	10	2450	SMITH	KING
BLAKE	30	2850	SMITH	KING
JONES	20	2975	SMITH	KING

ENAME	DEPTNO	SAL	FIRST_VALU	LAST_VALUE
FORD	20	3000	SMITH	KING
SCOTT	20	3000	SMITH	KING
KING	10	5000	SMITH	KING

14 rows selected.

```
SQL> SELECT
  2  ENAME,
  3  DEPTNO,
  4  SAL,
  5  FIRST_VALUE(ENAME)
  6  OVER
  7  (
  8  ORDER BY SAL ASC
  9  ROWS BETWEEN
10  UNBOUNDED PRECEDING AND
11  UNBOUNDED FOLLOWING
12  ) FIRST_VALUE,
13  LAST_VALUE(ENAME)
14  OVER
15  (
16  ORDER BY SAL ASC
17  ROWS BETWEEN
18  UNBOUNDED PRECEDING AND
19  UNBOUNDED FOLLOWING
20  ) LAST_VALUE
21  FROM EMP;
```

ENAME	DEPTNO	SAL	FIRST_VALU	LAST_VALUE
SMITH	20	800	SMITH	KING

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JAMES	30	950	SMITH	KING
ADAMS	20	1100	SMITH	KING
WARD	30	1250	SMITH	KING
MARTIN	30	1250	SMITH	KING
MILLER	10	1300	SMITH	KING
TURNER	30	1500	SMITH	KING
ALLEN	30	1600	SMITH	KING
CLARK	10	2450	SMITH	KING
BLAKE	30	2850	SMITH	KING
JONES	20	2975	SMITH	KING

ENAME	DEPTNO	SAL	FIRST_VALU	LAST_VALUE
SCOTT	20	3000	SMITH	KING
FORD	20	3000	SMITH	KING
KING	10	5000	SMITH	KING

14 rows selected.

```
SQL> SELECT
  2  ENAME,
  3  DEPTNO,
  4  SAL,
  5  HIREDATE,
  6  FIRST_VALUE (HIREDATE)
  7  OVER
  8  (
  9  ORDER BY HIREDATE ASC
 10  ) FIRST_VALUE,
 11  LAST_VALUE (HIREDATE)
 12  OVER
 13  (
 14  ORDER BY HIREDATE ASC
 15  ROWS BETWEEN
 16  UNBOUNDED PRECEDING AND
 17  UNBOUNDED FOLLOWING
 18  ) LAST_VALUE
 19  FROM EMP;
```

ENAME	DEPTNO	SAL	HIREDATE	FIRST_VAL	LAST_VALU
SMITH	20	800	17-DEC-80	17-DEC-80	23-MAY-87
ALLEN	30	1600	20-FEB-81	17-DEC-80	23-MAY-87
WARD	30	1250	22-FEB-81	17-DEC-80	23-MAY-87
JONES	20	2975	02-APR-81	17-DEC-80	23-MAY-87
BLAKE	30	2850	01-MAY-81	17-DEC-80	23-MAY-87
CLARK	10	2450	09-JUN-81	17-DEC-80	23-MAY-87
TURNER	30	1500	08-SEP-81	17-DEC-80	23-MAY-87
MARTIN	30	1250	28-SEP-81	17-DEC-80	23-MAY-87
KING	10	5000	17-NOV-81	17-DEC-80	23-MAY-87
JAMES	30	950	03-DEC-81	17-DEC-80	23-MAY-87
FORD	20	3000	03-DEC-81	17-DEC-80	23-MAY-87

ENAME	DEPTNO	SAL	HIREDATE	FIRST_VAL	LAST_VALU
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```
-----  
MILLER      10    1300 23-JAN-82 17-DEC-80 23-MAY-87  
SCOTT       20    3000 19-APR-87 17-DEC-80 23-MAY-87  
ADAMS       20    1100 23-MAY-87 17-DEC-80 23-MAY-87
```

14 rows selected.

```
SQL> SELECT  
      2  ENAME,  
      3  DEPTNO,  
      4  SAL,  
      5  HIREDATE,  
      6  FIRST_VALUE(HIREDATE)  
      7  OVER  
      8  (  
      9  ORDER BY HIREDATE ASC  
     10  ROWS BETWEEN  
     11  UNBOUNDED PRECEDING AND  
     12  UNBOUNDED FOLLOWING  
     13  ) FIRST_VALUE,  
     14  LAST_VALUE(HIREDATE)  
     15  OVER  
     16  (  
     17  ORDER BY HIREDATE ASC  
     18  ROWS BETWEEN  
     19  UNBOUNDED PRECEDING AND  
     20  UNBOUNDED FOLLOWING  
     21  ) LAST_VALUE  
     22  FROM EMP;
```

```
-----  
ENAME      DEPTNO      SAL HIREDATE  FIRST_VAL  LAST_VALU  
-----  
SMITH       20         800 17-DEC-80 17-DEC-80 23-MAY-87  
ALLEN       30        1600 20-FEB-81 17-DEC-80 23-MAY-87  
WARD        30        1250 22-FEB-81 17-DEC-80 23-MAY-87  
JONES       20        2975 02-APR-81 17-DEC-80 23-MAY-87  
BLAKE       30        2850 01-MAY-81 17-DEC-80 23-MAY-87  
CLARK       10        2450 09-JUN-81 17-DEC-80 23-MAY-87  
TURNER      30        1500 08-SEP-81 17-DEC-80 23-MAY-87  
MARTIN      30        1250 28-SEP-81 17-DEC-80 23-MAY-87  
KING        10        5000 17-NOV-81 17-DEC-80 23-MAY-87  
JAMES       30         950 03-DEC-81 17-DEC-80 23-MAY-87  
FORD        20        3000 03-DEC-81 17-DEC-80 23-MAY-87
```

```
-----  
ENAME      DEPTNO      SAL HIREDATE  FIRST_VAL  LAST_VALU  
-----  
MILLER      10    1300 23-JAN-82 17-DEC-80 23-MAY-87  
SCOTT       20    3000 19-APR-87 17-DEC-80 23-MAY-87  
ADAMS       20    1100 23-MAY-87 17-DEC-80 23-MAY-87
```

14 rows selected.

```
SQL> SELECT  
      2  ENAME,
```

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---

```

3  DEPTNO,
4  SAL,
5  HIREDATE,
6  FIRST_VALUE(HIREDATE)
7  OVER
8  (
9  ORDER BY HIREDATE DESC
10 ROWS BETWEEN
11 UNBOUNDED PRECEDING AND
12 UNBOUNDED FOLLOWING
13 ) FIRST_VALUE,
14 LAST_VALUE(HIREDATE)
15 OVER
16 (
17 ORDER BY HIREDATE DESC
18 ROWS BETWEEN
19 UNBOUNDED PRECEDING AND
20 UNBOUNDED FOLLOWING
21 ) LAST_VALUE,
22 FIRST_VALUE(HIREDATE)
23 OVER
24 (
25 ORDER BY HIREDATE DESC
26 ROWS BETWEEN
27 UNBOUNDED PRECEDING AND
28 UNBOUNDED FOLLOWING
29 ) -
30 LAST_VALUE(HIREDATE)
31 OVER
32 (
33 ORDER BY HIREDATE DESC
34 ROWS BETWEEN
35 UNBOUNDED PRECEDING AND
36 UNBOUNDED FOLLOWING
37 ) NDAYS
38 FROM EMP;

```

ENAME	DEPTNO	SAL	HIREDATE	FIRST_VAL	LAST_VALU	NDAYS
ADAMS	20	1100	23-MAY-87	23-MAY-87	17-DEC-80	2348
SCOTT	20	3000	19-APR-87	23-MAY-87	17-DEC-80	2348
MILLER	10	1300	23-JAN-82	23-MAY-87	17-DEC-80	2348
JAMES	30	950	03-DEC-81	23-MAY-87	17-DEC-80	2348
FORD	20	3000	03-DEC-81	23-MAY-87	17-DEC-80	2348
KING	10	5000	17-NOV-81	23-MAY-87	17-DEC-80	2348
MARTIN	30	1250	28-SEP-81	23-MAY-87	17-DEC-80	2348
TURNER	30	1500	08-SEP-81	23-MAY-87	17-DEC-80	2348
CLARK	10	2450	09-JUN-81	23-MAY-87	17-DEC-80	2348
BLAKE	30	2850	01-MAY-81	23-MAY-87	17-DEC-80	2348
JONES	20	2975	02-APR-81	23-MAY-87	17-DEC-80	2348

ENAME	DEPTNO	SAL	HIREDATE	FIRST_VAL	LAST_VALU	NDAYS
WARD	30	1250	22-FEB-81	23-MAY-87	17-DEC-80	2348

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ALLEN	30	1600	20-FEB-81	23-MAY-87	17-DEC-80	2348
SMITH	20	800	17-DEC-80	23-MAY-87	17-DEC-80	2348

14 rows selected.

```
SQL> SELECT
  2  ENAME,
  3  DEPTNO,
  4  SAL,
  5  HIREDATE,
  6  FIRST_VALUE(HIREDATE)
  7  OVER
  8  (
  9  ORDER BY HIREDATE DESC
 10  ROWS BETWEEN
 11  UNBOUNDED PRECEDING AND
 12  UNBOUNDED FOLLOWING
 13  ) FIRST_VALUE,
 14  LAST_VALUE(HIREDATE)
 15  OVER
 16  (
 17  ORDER BY HIREDATE DESC
 18  ROWS BETWEEN
 19  UNBOUNDED PRECEDING AND
 20  UNBOUNDED FOLLOWING
 21  ) LAST_VALUE,
 22  FIRST_VALUE(HIREDATE)
 23  OVER
 24  (
 25  ORDER BY HIREDATE DESC
 26  ROWS BETWEEN
 27  UNBOUNDED PRECEDING AND
 28  UNBOUNDED FOLLOWING
 29  ) -
 30  LAST_VALUE(HIREDATE)
 31  OVER
 32  (
 33  ORDER BY HIREDATE DESC
 34  ROWS BETWEEN
 35  UNBOUNDED PRECEDING AND
 36  UNBOUNDED FOLLOWING
 37  ) NDAYS,
 38  TRUNC
 39  (
 40  MONTHS_BETWEEN
 41  (
 42  FIRST_VALUE(HIREDATE)
 43  OVER
 44  (
 45  ORDER BY HIREDATE DESC
 46  ROWS BETWEEN
 47  UNBOUNDED PRECEDING AND
 48  UNBOUNDED FOLLOWING
 49  ),
```



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```

50 LAST_VALUE(HIREDATE)
51 OVER
52 (
53 ORDER BY HIREDATE DESC
54 ROWS BETWEEN
55 UNBOUNDED PRECEDING AND
56 UNBOUNDED FOLLOWING
57 )
58 )/12
59 ) NYEARS
60 FROM EMP;

```

ENAME	DEPTNO	SAL	HIREDATE	FIRST_VAL	LAST_VALU	NDAYS	NYEARS
ADAMS	20	1100	23-MAY-87	23-MAY-87	17-DEC-80	2348	6
SCOTT	20	3000	19-APR-87	23-MAY-87	17-DEC-80	2348	6
MILLER	10	1300	23-JAN-82	23-MAY-87	17-DEC-80	2348	6
JAMES	30	950	03-DEC-81	23-MAY-87	17-DEC-80	2348	6
FORD	20	3000	03-DEC-81	23-MAY-87	17-DEC-80	2348	6
KING	10	5000	17-NOV-81	23-MAY-87	17-DEC-80	2348	6
MARTIN	30	1250	28-SEP-81	23-MAY-87	17-DEC-80	2348	6
TURNER	30	1500	08-SEP-81	23-MAY-87	17-DEC-80	2348	6
CLARK	10	2450	09-JUN-81	23-MAY-87	17-DEC-80	2348	6
BLAKE	30	2850	01-MAY-81	23-MAY-87	17-DEC-80	2348	6
JONES	20	2975	02-APR-81	23-MAY-87	17-DEC-80	2348	6

ENAME	DEPTNO	SAL	HIREDATE	FIRST_VAL	LAST_VALU	NDAYS	NYEARS
WARD	30	1250	22-FEB-81	23-MAY-87	17-DEC-80	2348	6
ALLEN	30	1600	20-FEB-81	23-MAY-87	17-DEC-80	2348	6
SMITH	20	800	17-DEC-80	23-MAY-87	17-DEC-80	2348	6

14 rows selected.

```

SQL> SELECT
2  EMPNO,
3  DEPTNO,
4  HIREDATE,
5  FIRST_VALUE(HIREDATE)
6  OVER
7  (
8  PARTITION BY DEPTNO
9  ORDER BY HIREDATE
10 ) FIRST_DATE,
11 HIREDATE-FIRST_VALUE(HIREDATE)
12 OVER
13 (
14 PARTITION BY DEPTNO
15 ORDER BY HIREDATE
16 ) NDAYS
17 FROM EMP
18 ORDER BY DEPTNO,NDAYS;

```

EMPNO	DEPTNO	HIREDATE	FIRST_DAT	NDAYS
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7782	10	09-JUN-81	09-JUN-81	0
7839	10	17-NOV-81	09-JUN-81	161
7934	10	23-JAN-82	09-JUN-81	228
7369	20	17-DEC-80	17-DEC-80	0
7566	20	02-APR-81	17-DEC-80	106
7902	20	03-DEC-81	17-DEC-80	351
7788	20	19-APR-87	17-DEC-80	2314
7876	20	23-MAY-87	17-DEC-80	2348
7499	30	20-FEB-81	20-FEB-81	0
7521	30	22-FEB-81	20-FEB-81	2
7698	30	01-MAY-81	20-FEB-81	70

EMPNO	DEPTNO	HIREDATE	FIRST_DAT	NDAYS
7844	30	08-SEP-81	20-FEB-81	200
7654	30	28-SEP-81	20-FEB-81	220
7900	30	03-DEC-81	20-FEB-81	286

14 rows selected.

SQL> --Applying window Clause--

SQL> SELECT

```

2 Empno,
3 Deptno,
4 Sal,
5 SUM(Sal)
6 OVER
7 (
8 ORDER BY Sal DESC , Empno
9 ) RunSal
10 FROM EMP;
```

EMPNO	DEPTNO	SAL	RUNSAL
7839	10	5000	5000
7788	20	3000	8000
7902	20	3000	11000
7566	20	2975	13975
7698	30	2850	16825
7782	10	2450	19275
7499	30	1600	20875
7844	30	1500	22375
7934	10	1300	23675
7521	30	1250	24925
7654	30	1250	26175

EMPNO	DEPTNO	SAL	RUNSAL
7876	20	1100	27275
7900	30	950	28225
7369	20	800	29025

14 rows selected.

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---

```
SQL> SELECT
  2  Empno,
  3  Deptno,
  4  Sal,
  5  SUM(Sal)
  6  OVER
  7  (
  8  ORDER BY Sal  DESC , Empno
  9  ROWS 2 PRECEDING
 10  ) RunSal
 11  FROM  EMP;
```

EMPNO	DEPTNO	SAL	RUNSAL
7839	10	5000	5000
7788	20	3000	8000
7902	20	3000	11000
7566	20	2975	8975
7698	30	2850	8825
7782	10	2450	8275
7499	30	1600	6900
7844	30	1500	5550
7934	10	1300	4400
7521	30	1250	4050
7654	30	1250	3800

EMPNO	DEPTNO	SAL	RUNSAL
7876	20	1100	3600
7900	30	950	3300
7369	20	800	2850

14 rows selected.

```
SQL> SELECT
  2  Empno,
  3  Deptno,
  4  Sal,
  5  SUM(Sal)
  6  OVER
  7  (
  8  ORDER BY Sal  DESC , Empno
  9  ROWS 1 PRECEDING
 10  ) RunSal
 11  FROM  EMP;
```

EMPNO	DEPTNO	SAL	RUNSAL
7839	10	5000	5000
7788	20	3000	8000
7902	20	3000	6000
7566	20	2975	5975
7698	30	2850	5825

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7782	10	2450	5300
7499	30	1600	4050
7844	30	1500	3100
7934	10	1300	2800
7521	30	1250	2550
7654	30	1250	2500

EMPNO	DEPTNO	SAL	RUNSAL
7876	20	1100	2350
7900	30	950	2050
7369	20	800	1750

14 rows selected.

```
SQL> SELECT
  2  Empno,
  3  Deptno,
  4  Sal,
  5  SUM(Sal)
  6  OVER
  7  (
  8  ORDER BY Sal DESC , Empno
  9  ROWS 0 PRECEDING
 10  ) RunSal
 11  FROM EMP;
```

EMPNO	DEPTNO	SAL	RUNSAL
7839	10	5000	5000
7788	20	3000	3000
7902	20	3000	3000
7566	20	2975	2975
7698	30	2850	2850
7782	10	2450	2450
7499	30	1600	1600
7844	30	1500	1500
7934	10	1300	1300
7521	30	1250	1250
7654	30	1250	1250

EMPNO	DEPTNO	SAL	RUNSAL
7876	20	1100	1100
7900	30	950	950
7369	20	800	800

14 rows selected.

```
SQL> SELECT
  2  Empno,
  3  Deptno,
  4  Sal,
  5  SUM(Sal)
```

```
6  OVER
7  (
8  ORDER BY Sal  DESC , Empno
9  ROWS 0 FOLLOWING
10 ) RunSal
11 FROM  EMP;
ROWS 0 FOLLOWING
      *
```

ERROR at line 9:  
ORA-00905: missing keyword

```
SQL> SELECT
2  Empno,
3  Deptno,
4  Sal,
5  SUM(Sal)
6  OVER
7  (
8  ORDER BY Sal  DESC , Empno
9  ROWS 0 PRECEDING AND 1 FOLLOWING
10 ) RunSal
11 FROM  EMP;
ROWS 0 PRECEDING AND 1 FOLLOWING
      *
```

ERROR at line 9:  
ORA-00907: missing right parenthesis

```
SQL> SELECT
2  Empno,
3  Deptno,
4  Sal,
5  SUM(Sal)
6  OVER
7  (
8  ORDER BY Sal  DESC , Empno
9  ROWS BETWEEN
10 0 PRECEDING AND
11 1 FOLLOWING
12 ) RunSal
13 FROM  EMP;
```

EMPNO	DEPTNO	SAL	RUNSAL
7839	10	5000	8000
7788	20	3000	6000
7902	20	3000	5975
7566	20	2975	5825
7698	30	2850	5300
7782	10	2450	4050
7499	30	1600	3100
7844	30	1500	2800
7934	10	1300	2550

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```

7521      30  1250      2500
7654      30  1250      2350

```

```

EMPNO DEPTNO      SAL      RUNSAL
-----
7876      20  1100      2050
7900      30   950      1750
7369      20   800       800

```

14 rows selected.

```

SQL> SELECT
  2  Empno,
  3  Deptno,
  4  Sal,
  5  SUM(Sal)
  6  OVER
  7  (
  8  ORDER BY Sal  DESC , Empno
  9  ROWS BETWEEN
10  0 PRECEDING AND
11  1 FOLLOWING
12  ) RunSal01,
13  SUM(Sal)
14  OVER
15  (
16  ORDER BY Sal  DESC , Empno
17  ROWS BETWEEN
18  0 PRECEDING AND
19  2 FOLLOWING
20  ) RunSal02,
21  SUM(Sal)
22  OVER
23  (
24  ORDER BY Sal  DESC , Empno
25  ROWS BETWEEN
26  0 PRECEDING AND
27  3 FOLLOWING
28  ) RunSal03,
29  SUM(Sal)
30  OVER
31  (
32  ORDER BY Sal  DESC , Empno
33  ROWS BETWEEN
34  0 PRECEDING AND
35  4 FOLLOWING
36  ) RunSal04
37  FROM EMP;

```

```

EMPNO DEPTNO      SAL      RUNSAL01      RUNSAL02      RUNSAL03      RUNSAL04
-----
7839      10  5000       8000       11000       13975       16825
7788      20  3000       6000       8975       11825       14275
7902      20  3000       5975       8825       11275       12875

```

## Spool File For Oracle Students Prepared By Mr.Balram

7566	20	2975	5825	8275	9875	11375
7698	30	2850	5300	6900	8400	9700
7782	10	2450	4050	5550	6850	8100
7499	30	1600	3100	4400	5650	6900
7844	30	1500	2800	4050	5300	6400
7934	10	1300	2550	3800	4900	5850
7521	30	1250	2500	3600	4550	5350
7654	30	1250	2350	3300	4100	4100

EMPNO	DEPTNO	SAL	RUNSAL01	RUNSAL02	RUNSAL03	RUNSAL04
7876	20	1100	2050	2850	2850	2850
7900	30	950	1750	1750	1750	1750
7369	20	800	800	800	800	800

14 rows selected.

```
SQL> SELECT
  2  Empno,
  3  Deptno,
  4  Sal,
  5  SUM(Sal)
  6  OVER
  7  (
  8  ORDER BY Sal  DESC , Empno
  9  ROWS BETWEEN
10  UNBOUNDED PRECEDING AND
11  UNBOUNDED FOLLOWING
12  ) RunSal
13  FROM  EMP;
```

EMPNO	DEPTNO	SAL	RUNSAL
7839	10	5000	29025
7788	20	3000	29025
7902	20	3000	29025
7566	20	2975	29025
7698	30	2850	29025
7782	10	2450	29025
7499	30	1600	29025
7844	30	1500	29025
7934	10	1300	29025
7521	30	1250	29025
7654	30	1250	29025

EMPNO	DEPTNO	SAL	RUNSAL
7876	20	1100	29025
7900	30	950	29025
7369	20	800	29025

14 rows selected.

```
SQL> SELECT
```

# Spool File For Oracle Students Prepared By Mr.Balram

```
2 Empno,  
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;
```

EMPNO	DEPTNO	SAL	RUNSAL
7839	10	5000	29025
7788	20	3000	24025
7902	20	3000	21025
7566	20	2975	18025
7698	30	2850	15050
7782	10	2450	12200
7499	30	1600	9750
7844	30	1500	8150
7934	10	1300	6650
7521	30	1250	5350
7654	30	1250	4100

EMPNO	DEPTNO	SAL	RUNSAL
7876	20	1100	2850
7900	30	950	1750
7369	20	800	800

14 rows selected.

```
SQL> SELECT  
2 Empno,  
3 Deptno,  
4 Sal,  
5 SUM(Sal)  
6 OVER  
7 (  
8 ORDER BY Sal DESC , Empno  
9 ROWS BETWEEN  
10 1 PRECEDING AND  
11 UNBOUNDED FOLLOWING  
12 ) RunSal  
13 FROM EMP;
```

EMPNO	DEPTNO	SAL	RUNSAL
7839	10	5000	29025
7788	20	3000	29025
7902	20	3000	24025



Spool File For Oracle Students Prepared By Mr.Balram

7566	20	2975	21025
7698	30	2850	18025
7782	10	2450	15050
7499	30	1600	12200
7844	30	1500	9750
7934	10	1300	8150
7521	30	1250	6650
7654	30	1250	5350

EMPNO	DEPTNO	SAL	RUNSAL
7876	20	1100	4100
7900	30	950	2850
7369	20	800	1750

14 rows selected.

```
SQL> SELECT
  2  Empno,
  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;
```

EMPNO	DEPTNO	SAL	RUNSAL
7839	10	5000	8000
7788	20	3000	11000
7902	20	3000	8975
7566	20	2975	8825
7698	30	2850	8275
7782	10	2450	6900
7499	30	1600	5550
7844	30	1500	4400
7934	10	1300	4050
7521	30	1250	3800
7654	30	1250	3600

EMPNO	DEPTNO	SAL	RUNSAL
7876	20	1100	3300
7900	30	950	2850
7369	20	800	1750

14 rows selected.

```
SQL> SPOOL OFF
```

Oracle 11g(SQL) By Balram