

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

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```
SQL> SELECT
  2  ROW_NUMBER()
  3  OVER
  4  (
  5  ORDER BY SAL DESC
  6  ) RowNo,
  7  Ename,
  8  Deptno
  9  FROM Emp;
```

ROWNO	ENAME	DEPTNO
1	KING	10
2	FORD	20
3	SCOTT	20
4	JONES	20
5	BLAKE	30
6	CLARK	10
7	ALLEN	30
8	TURNER	30
9	MILLER	10
10	MARTIN	30
11	WARD	30

ROWNO	ENAME	DEPTNO
12	ADAMS	20
13	JAMES	30
14	SMITH	20

14 rows selected.

```
SQL> SELECT
  2  ROW_NUMBER()
  3  OVER
  4  (
  5  PARTITION BY DEPTNO
  6  ORDER BY SAL DESC
  7  ) RowNo,
  8  Ename,
  9  Deptno
 10  FROM Emp;
```

ROWNO	ENAME	DEPTNO
1	KING	10
2	CLARK	10
3	MILLER	10
1	FORD	20
2	SCOTT	20
3	JONES	20
4	ADAMS	20
5	SMITH	20
1	BLAKE	30

```

2 ALLEN      30
3 TURNER     30

```

```

      ROWNO ENAME  DEPTNO
-----
4 WARD      30
5 MARTIN    30
6 JAMES     30

```

14 rows selected.

```

SQL> SELECT E1.*
2   FROM
3   (
4   SELECT Deptno, Ename,
5   ROW_NUMBER()
6   OVER
7   (
8   PARTITION BY Deptno
9   ORDER BY Sal DESC NULLS LAST
10  ) SeqNo
11  FROM EMP
12  ) E1
13  WHERE E1.SeqNo <=3;

```

```

DEPTNO ENAME      SEQNO
-----
10 KING          1
10 CLARK         2
10 MILLER        3
20 SCOTT         1
20 FORD          2
20 JONES         3
30 BLAKE         1
30 ALLEN         2
30 TURNER        3

```

9 rows selected.

```

SQL> SELECT Deptno,
2   MAX(DECODE(SeqNo,1,Ename,NULL)) First,
3   MAX(DECODE(SeqNo,2,Ename,NULL)) Second,
4   MAX(DECODE(SeqNo,3,Ename,NULL)) Third
5   FROM
6   (
7   SELECT Deptno, Ename,
8   ROW_NUMBER()
9   OVER
10  (
11  PARTITION BY Deptno
12  ORDER BY Sal DESC NULLS LAST
13  ) SeqNo
14  FROM EMP
15  ) E1

```

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```
16 WHERE E1.SeqNo <=3
17 GROUP BY Deptno;
```

DEPTNO	FIRST	SECOND	THIRD
10	KING	CLARK	MILLER
20	SCOTT	FORD	JONES
30	BLAKE	ALLEN	TURNER

```
SQL> SELECT Deptno,
2 MAX(DECODE(SeqNo,1,Ename,NULL)) First,
3 MAX(DECODE(SeqNo,2,Ename,NULL)) Second,
4 MAX(DECODE(SeqNo,3,Ename,NULL)) Third
5 FROM
6 (
7 SELECT Deptno,Ename,
8 ROW_NUMBER()
9 OVER
10 (
11 PARTITION BY Deptno
12 ORDER BY Hiredate DESC NULLS LAST
13 ) SeqNo
14 FROM EMP
15 ) E1
16 WHERE E1.SeqNo <=3
17 GROUP BY Deptno;
```

DEPTNO	FIRST	SECOND	THIRD
10	MILLER	KING	CLARK
20	ADAMS	SCOTT	FORD
30	JAMES	MARTIN	TURNER

```
SQL> SELECT E1.*
2 FROM (SELECT Deptno,Ename,
3 ROW_NUMBER()
4 OVER ( PARTITION BY Deptno
5 ORDER BY Hiredate DESC NULLS LAST
6 ) SeqNo
7 FROM EMP ) E1
8 WHERE E1.SeqNo <=3;
```

DEPTNO	ENAME	SEQNO
10	MILLER	1
10	KING	2
10	CLARK	3
20	ADAMS	1
20	SCOTT	2
20	FORD	3
30	JAMES	1
30	MARTIN	2
30	TURNER	3

9 rows selected.

```
SQL> SELECT E1.*
  2 FROM   (SELECT Deptno, Ename,
  3         ROW_NUMBER()
  4         OVER ( PARTITION BY Deptno
  5              ORDER BY Hiredate DESC NULLS LAST
  6              ) SeqNo
  7         FROM EMP ) E1
  8 WHERE E1.SeqNo <=4;
```

DEPTNO	ENAME	SEQNO
10	MILLER	1
10	KING	2
10	CLARK	3
20	ADAMS	1
20	SCOTT	2
20	FORD	3
20	JONES	4
30	JAMES	1
30	MARTIN	2
30	TURNER	3
30	BLAKE	4

11 rows selected.

```
SQL> SELECT E1.*
  2 FROM   (SELECT Deptno, Ename,
  3         ROW_NUMBER()
  4         OVER ( PARTITION BY Deptno
  5              ORDER BY Hiredate NULLS LAST
  6              ) SeqNo
  7         FROM EMP ) E1
  8 WHERE E1.SeqNo <=4;
```

DEPTNO	ENAME	SEQNO
10	CLARK	1
10	KING	2
10	MILLER	3
20	SMITH	1
20	JONES	2
20	FORD	3
20	SCOTT	4
30	ALLEN	1
30	WARD	2
30	BLAKE	3
30	TURNER	4

11 rows selected.

```
SQL> SELECT E1.*
  2 FROM   (SELECT Deptno, Ename,
```

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---

```

3      ROW_NUMBER()
4      OVER (ORDER BY Hiredate NULLS LAST) SeqNo
5      FROM EMP ) E1
6  WHERE E1.SeqNo <=4;

```

DEPTNO	ENAME	SEQNO
20	SMITH	1
30	ALLEN	2
30	WARD	3
20	JONES	4

```

SQL> SELECT Deptno,
2  NVL (MAX (DECODE (SeqNo,1,Ename,NULL)), 'N.A.') First,
3  NVL (MAX (DECODE (SeqNo,2,Ename,NULL)), 'N.A.') Second,
4  NVL (MAX (DECODE (SeqNo,3,Ename,NULL)), 'N.A.') Third
5  FROM   (SELECT Deptno,Ename,
6           ROW_NUMBER()
7           OVER (ORDER BY Hiredate NULLS LAST) SeqNo
8           FROM EMP ) E1
9  WHERE E1.SeqNo <=4 OR Deptno IN(10, 20, 30)
10 GROUP BY Deptno;

```

DEPTNO	FIRST	SECOND	THIRD
30	N.A.	ALLEN	WARD
20	SMITH	N.A.	N.A.
10	N.A.	N.A.	N.A.

```

SQL> SELECT Deptno,
2  DECODE (SeqNo,1,Ename, NULL) First,
3  DECODE (SeqNo,2, Ename, NULL) Second,
4  DECODE (SeqNo,3,Ename,NULL) Third
5  FROM (SELECT Deptno, Ename,
6           ROW_NUMBER()
7           OVER
8           (
9           PARTITION BY DEPTNO
10          ORDER BY Sal DESC NULLS LAST) SeqNo
11          FROM EMP)
12  WHERE SeqNo <=3;

```

DEPTNO	FIRST	SECOND	THIRD
10	KING		
10		CLARK	
10			MILLER
20	SCOTT		
20		FORD	
20			JONES
30	BLAKE		
30		ALLEN	
30			TURNER

9 rows selected.

SQL> SPOOL OFF

Oracle 11g(SQL) By Balram