

SQL> cl scr

```
SQL> SELECT
  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 DESC
9  ) EmpRank
10  FROM Emp
11* ORDER BY Emprank
```

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SQL> /

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

SQL> cl scr

```
SQL> SELECT
  2  EName,
  3  Deptno,
  4  Sal,
  5  DENSE_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	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

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```
.....
```

MARTIN	30	1250	9
ADAMS	20	1100	10
JAMES	30	950	11
SMITH	20	800	12

14 rows selected.

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  ) EmpRank
10 FROM Emp
11* ORDER BY EmpRank
SQL> /
```

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	5
TURNER	30	1500	6
ALLEN	30	1600	7
CLARK	10	2450	8
BLAKE	30	2850	9
JONES	20	2975	10
FORD	20	3000	11
SCOTT	20	3000	11
KING	10	5000	12

14 rows selected.

```
SQL> SELECT
2  ROWNUM, E1.*
3  FROM
4  (
5  SELECT
```

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```
6  EName,
7  Deptno,
8  Sal,
9  DENSE_RANK()
10 OVER
11  (
12    ORDER BY Sal DESC
13  ) EmpRank
14 FROM Emp
15 ORDER BY EmpRank
16 ) E1
17 ORDER BY ROWNUM;
```

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

14 rows selected.

SQL> cl scr

```
SQL> SELECT
2  DENSE_RANK()
3  OVER
4  (
5    ORDER BY Ename
6  ) RollNo,
7  EName,
8  Deptno,
9  Sal
10 FROM Emp
11 ORDER BY RollNo;
```

ROLLNO	ENAME	DEPTNO	SAL
--------	-------	--------	-----

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

14 rows selected.

```
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Sal)
      2 VALUES(7935, 'SURESH', 30, 2000);
```

1 row created.

```
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Sal)
      2 VALUES(7936, 'SURESH', 30, 2000);
```

1 row created.

```
SQL> INSERT INTO Emp(Empno, Ename, Deptno, Sal)
      2 VALUES(7937, 'SURESH', 30, 2000);
```

1 row created.

```
SQL> SELECT
      2 DENSE_RANK()
      3 OVER
      4   (
      5     ORDER BY Ename
      6   ) RollNo,
      7 EName,
      8 Deptno,
      9 Sal
     10 FROM Emp
     11 ORDER BY RollNo;
```

```
-----
ROLLNO  ENAME                DEPTNO          SAL
-----
-----
```

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```
.....
1 ADAMS                20          1100
2 ALLEN                30          1600
3 BLAKE                30          2850
4 CLARK                10          2450
5 FORD                 20          3000
6 JAMES                30           950
7 JONES                20          2975
8 KING                 10          5000
9 MARTIN               30          1250
10 MILLER               10          1300
11 SCOTT                20          3000
12 SMITH                20           800
13 SURESH               30          2000
13 SURESH               30          2000
13 SURESH               30          2000
14 TURNER               30          1500
15 WARD                 30          1250
```

17 rows selected.

SQL> ED

Wrote file afiedt.buf

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

ROLLNO	ENAME	DEPTNO	SAL
1	ADAMS	20	1100
2	ALLEN	30	1600
3	BLAKE	30	2850
4	CLARK	10	2450
5	FORD	20	3000
6	JAMES	30	950
7	JONES	20	2975
8	KING	10	5000
9	MARTIN	30	1250

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10	MILLER	10	1300
11	SCOTT	20	3000
12	SMITH	20	800
13	SURESH	30	2000
14	SURESH	30	2000
15	SURESH	30	2000
16	TURNER	30	1500
17	WARD	30	1250

17 rows selected.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> SELECT
  2  DENSE_RANK()
  3  OVER
  4  (
  5  ORDER BY Ename
  6  ) RollNo,
  7  EName,
  8  Sal,
  9  DENSE_RANK()
 10  OVER
 11  (
 12  ORDER BY Sal DESC
 13  ) RankSal,
 14  HireDate,
 15  DENSE_RANK()
 16  OVER
 17  (
 18  ORDER BY HireDate
 19  ) SeniorRank,
 20  DENSE_RANK()
 21  OVER
 22  (
 23  ORDER BY HireDate DESC
 24  ) JuniorRank
 25  FROM Emp
 26  ORDER BY RollNo;
```

ROLLNO	ENAME	SAL	RANKSAL	HIREDATE	SENIORRANK	JUNIORRANK
--------	-------	-----	---------	----------	------------	------------

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1	ADAMS	1100	10	12-JAN-83	13
2	ALLEN	1600	6	20-FEB-81	2
3	BLAKE	2850	4	01-MAY-81	5
4	CLARK	2450	5	09-JUN-81	6
5	FORD	3000	2	03-DEC-81	10
6	JAMES	950	11	03-DEC-81	10
7	JONES	2975	3	02-APR-81	4
8	KING	5000	1	17-NOV-81	9
9	MARTIN	1250	9	28-SEP-81	8
10	MILLER	1300	8	23-JAN-82	11
11	SCOTT	3000	2	09-DEC-82	12
12	SMITH	800	12	17-DEC-80	1
13	TURNER	1500	7	08-SEP-81	7
14	WARD	1250	9	22-FEB-81	3

14 rows selected.

```
SQL> COL "Year" FOR A4
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
------	----------	----------

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```
-----
1981      22825      1
1982      4300      2
1983      1100      3
1980      800       4
```

SQL> cl scr

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

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	KING	10	5000	1
2	FORD	20	3000	2
3	SCOTT	20	3000	2
4	JONES	20	2975	3
5	BLAKE	30	2850	4
6	CLARK	10	2450	5

6 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWNUM, E1.*
2  FROM
3  (
4  SELECT  EName, Deptno, Sal,
5  DENSE_RANK()
6  OVER
7  (
8  ORDER BY Sal
9  ) EmpRank
10 FROM Emp
```

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```
11 ORDER BY EmpRank
12 ) E1
13 WHERE E1.EmpRank <= 5
14* ORDER BY ROWNUM
SQL> /
```

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	SMITH	20	800	1
2	JAMES	30	950	2
3	ADAMS	20	1100	3
4	MARTIN	30	1250	4
5	WARD	30	1250	4
6	MILLER	10	1300	5

6 rows selected.

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

```
1 SELECT ROWNUM, E1.*
2 FROM
3 (
4 SELECT EName, Deptno, Sal,
5 DENSE_RANK()
6 OVER
7 (
8 ORDER BY Sal
9 ) EmpRank
10 FROM Emp
11 ORDER BY EmpRank
12 ) E1
13 WHERE E1.EmpRank &GiveFilter
14* ORDER BY ROWNUM
SQL> /
```

Enter value for givefilter: = 1

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	SMITH	20	800	1

```
SQL> /
```

Enter value for givefilter: <= 5

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	SMITH	20	800	1

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```
.....
      2 JAMES          30          950          2
      3 ADAMS          20         1100          3
      4 MARTIN         30         1250          4
      5 WARD           30         1250          4
      6 MILLER         10         1300          5
```

6 rows selected.

SQL> /

Enter value for givefilter: IN(1, 4, 7)

```
      ROWNUM ENAME      DEPTNO      SAL      EMPRANK
-----
      1 SMITH          20          800          1
      2 WARD           30         1250          4
      3 MARTIN         30         1250          4
      4 ALLEN          30         1600          7
```

SQL> /

Enter value for givefilter: BETWEEN 1 AND 5

```
      ROWNUM ENAME      DEPTNO      SAL      EMPRANK
-----
      1 SMITH          20          800          1
      2 JAMES          30          950          2
      3 ADAMS          20         1100          3
      4 MARTIN         30         1250          4
      5 WARD           30         1250          4
      6 MILLER         10         1300          5
```

6 rows selected.

SQL> /

Enter value for givefilter: BETWEEN 6 AND 10

```
      ROWNUM ENAME      DEPTNO      SAL      EMPRANK
-----
      1 TURNER         30         1500          6
      2 ALLEN          30         1600          7
      3 CLARK          10         2450          8
      4 BLAKE          30         2850          9
      5 JONES          20         2975         10
```

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWNUM, E1.*
```

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```
2 FROM
3 (
4 SELECT EName, Deptno, Sal,
5 DENSE_RANK()
6 OVER
7 (
8 ORDER BY Sal &GiveDir
9 ) EmpRank
10 FROM Emp
11 ORDER BY EmpRank
12 ) E1
13 WHERE E1.EmpRank &GiveFilter
14* ORDER BY ROWNUM
```

SQL> /

Enter value for givedir: DESC

Enter value for givefilter: = 1

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	KING	10	5000	1

SQL> /

Enter value for givedir: ASC

Enter value for givefilter: = 1

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	SMITH	20	800	1

SQL> /

Enter value for givedir: DESC

Enter value for givefilter: <= 5

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	KING	10	5000	1
2	FORD	20	3000	2
3	SCOTT	20	3000	2
4	JONES	20	2975	3
5	BLAKE	30	2850	4
6	CLARK	10	2450	5

6 rows selected.

SQL> /

Enter value for givedir: ASC

Enter value for givefilter: <= 5

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ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	SMITH	20	800	1
2	JAMES	30	950	2
3	ADAMS	20	1100	3
4	MARTIN	30	1250	4
5	WARD	30	1250	4
6	MILLER	10	1300	5

6 rows selected.

SQL> /

Enter value for givedir: DESC

Enter value for givefilter: IN(1, 3, 5)

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	KING	10	5000	1
2	JONES	20	2975	3
3	CLARK	10	2450	5

SQL> /

Enter value for givedir: ASC

Enter value for givefilter: IN(1, 3, 5)

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	SMITH	20	800	1
2	ADAMS	20	1100	3
3	MILLER	10	1300	5

SQL> ED

Wrote file afiedt.buf

```
1  SELECT ROWNUM, E1.*
2  FROM
3  (
4  SELECT  EName, Deptno, &&GiveDim,
5  DENSE_RANK()
6  OVER
7  (
8  ORDER BY &&GiveDim &GiveDir
9  ) EmpRank
10 FROM Emp
11 ORDER BY EmpRank
12 ) E1
```

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```
13 WHERE E1.EmpRank &GiveFilter
14* ORDER BY ROWNUM
SQL> /
Enter value for givedim: Sal
Enter value for givedir: DESC
Enter value for givefilter: = 1
```

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	KING	10	5000	1

```
SQL> /
Enter value for givedir: ASC
Enter value for givefilter: = 1
```

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	SMITH	20	800	1

```
SQL> DEFINE GiveDim = HireDate
SQL> R
1 SELECT ROWNUM, E1.*
2 FROM
3 (
4 SELECT EName, Deptno, &&GiveDim,
5 DENSE_RANK()
6 OVER
7 (
8 ORDER BY &&GiveDim &GiveDir
9 ) EmpRank
10 FROM Emp
11 ORDER BY EmpRank
12 ) E1
13 WHERE E1.EmpRank &GiveFilter
14* ORDER BY ROWNUM
Enter value for givedir: ASC
Enter value for givefilter: = 1
```

ROWNUM	ENAME	DEPTNO	HIREDATE	EMPRANK
1	SMITH	20	17-DEC-80	1

```
SQL> /
Enter value for givedir: DESC
Enter value for givefilter: = 1
```

ROWNUM	ENAME	DEPTNO	HIREDATE	EMPRANK
--------	-------	--------	----------	---------

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 1 ADAMS 20 12-JAN-83 1

SQL> cl scr

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

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

14 rows selected.

SQL> cl scr

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

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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

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

10 rows selected.

SQL> SPOOL OFF

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