```
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 ROWNUM, Empno, Ename, Sal
- 2 FROM Emp
- 3* ORDER BY Sal

SQL> /

1	ROWNUM	EMPNO	ENAME	SAL
	11	7369	SMITH	800
	8	7900	JAMES	950
	13	7876	ADAMS	1100
	9	7521	WARD	1250

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5	7654	MARTIN	1	L250
14	7934	MILLER	1	L300
7	7844	TURNER	1	L500
6	7499	ALLEN	1	L600
3	7782	CLARK	2	2450
2	7698	BLAKE	2	2850
4	7566	JONES	2	2975
10	7902	FORD	3	3000
12	7788	SCOTT	3	3000
1	7839	KING	5	5000

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1 SELECT ROWNUM, E1.*
2 FROM
3 (
4 SELECT Empno, Ename, Sal
5 FROM Emp
6 ORDER BY Sal
7* ) E1
SOL> /
```

ROWNUM	EMPNO	ENAME	SAL
1	7369	SMITH	800
2	7900	JAMES	950
3	7876	ADAMS	1100
4	7521	WARD	1250
5	7654	MARTIN	1250
6	7934	MILLER	1300
7	7844	TURNER	1500
8	7499	ALLEN	1600
9	7782	CLARK	2450
10	7698	BLAKE	2850
11	7566	JONES	2975
12	7902	FORD	3000
13	7788	SCOTT	3000
14	7839	KING	5000

14 rows selected.

SQL> SELECT

- 2 EName,
- 3 Deptno

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```
4 Sal,
5 DENSE_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	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> ED

Wrote file afiedt.buf

```
SELECT
  2 EName,
  3 Deptno,
  4
    Sal,
 5
   RANK()
 6
    OVER
  7
 8
       ORDER BY Sal DESC
      ) EmpRank
 9
 10 FROM Emp
11* ORDER BY Emprank
SQL> /
```

ENAME	DEPTNO	SAL	EMPRANK
KING	10	5000	1

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-

SCOTT	20	3000	2
FORD	20	3000	2
JONES	20	2975	4
BLAKE	30	2850	5
CLARK	10	2450	б
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> 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
MARTIN	30	1250	9
ADAMS	20	1100	10
JAMES	30	950	11
SMITH	20	800	12

14 rows selected.

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-

SQL> ED

Wrote file afiedt.buf

- 1 SELECT
- 2 EName,
- 3 Deptno,
- 4 Sal,
- 5 DENSE_RANK()
- 6 OVER
- 7 (
- 8 ORDER BY Sal &GiveOrder
- 9) EmpRank
- 10 FROM Emp
- 11* ORDER BY EmpRank

SQL> /

Enter value for giveorder:

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> /

Enter value for giveorder: DESC

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

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ALLEN 30 1600 TURNER 30 1500 7 10 8 MILLER 1300 WARD 30 1250 9 MARTIN 30 9 1250 ADAMS 20 1100 10 30 950 11 **JAMES** SMITH 20 800 12 14 rows selected. SOL> cl scr SQL> SELECT 2 ROWNUM, E1.* 3 FROM 4 (5 SELECT б EName, 7 Deptno, 8 Sal, 9 DENSE RANK() 10 OVER 11 12 ORDER BY Sal DESC 13) EmpRank 14 FROM Emp ORDER BY EmpRank 15 16) E1 17 ORDER BY ROWNUM; ROWNUM ENAME **EMPRANK** SAL 10 5000 1 1 KING 20 3000 2 2 SCOTT 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 9 MILLER 10 1300 8 10 WARD 30 1250 11 MARTIN 30 1250 20 12 ADAMS 1100 10 950 13 JAMES 30 11

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20

14 SMITH

```
14 rows selected.

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
1	ADAMS	20	1100
2	ALLEN	3(4
3	BLAKE	3(
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, 'MARTIN', 30, 2000);
```

1 row created.

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

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```
1 row created.
SOL> 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
         1 ADAMS
                               20
                                        1100
         2 ALLEN
                               30
                                        1600
         3 BLAKE
                               30
                                        2850
         4 CLARK
                               10
                                        2450
                                        3000
         5 FORD
                               20
         6 JAMES
                               30
                                         950
         7 JONES
                               20
                                        2975
                                        5000
         8 KING
                               10
         9 MARTIN
                               30
                                        1250
                                        2000
         9 MARTIN
                               30
                                        2000
         9 MARTIN
        10 MILLER
                                        1300
        11 SCOTT
                                        3000
        12 SMITH
                               20
                                         800
        13 SURESH
                               30
                                        2000
        14 TURNER
                               30
                                        1500
        15 WARD
                               30
                                        1250
17 rows selected.
SQL> ED
Wrote file afiedt.buf
     SELECT
     DENSE_RANK()
  3
     OVER
        ORDER BY Ename, Empno
  6
        ) RollNo,
     EName,
     Deptno,
```

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

```
17 rows selected.
```

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

12

13

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

) RankSal,

ORDER BY Sal DESC

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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

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

14 rows selected.

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```
SOL> 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
                                     5000
        1 KING
                            10
                                                   1
        2 FORD
                            20
                                     3000
                                                   2
                                     3000
        3 SCOTT
                            20
                                     2975
        4 JONES
                             20
                                                   3
        5 BLAKE
                             30
                                     2850
        6 CLARK
                                     2450
6 rows selected.
SOL> ED
Wrote file afiedt.buf
  1 SELECT ROWNUM, E1
  2 FROM
  3 (
  4 SELECT EName, Deptno, Sal,
  5
    DENSE_RANK()
  б
    OVER
  7
 8
           ORDER BY Sal
  9
           ) EmpRank
    FROM Emp
 10
 11 ORDER BY EmpRank
    ) E1
 13 WHERE El.EmpRank <= 5
 14* ORDER BY ROWNUM
```

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ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	SMITH	20	800	1
_	JAMES	30	950	2
	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 &GiveOrder
 9
          ) EmpRank
 10 FROM Emp
 11 ORDER BY EmpRank
12 ) E1
13 WHERE E1.EmpRank <=
14* ORDER BY ROWNUM
SQL> /
Enter value for giveorder
```

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 giveorder: DESC

ROWNUM ENAME DEPTNO SAL EMPRANE

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```
.....
               10 5000
20 3000
      1 KING
       2 FORD
                      20
                             3000
       3 SCOTT
                      20 2975
30 2850
10 2450
       4 JONES
                                         3
       5 BLAKE
       6 CLARK
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 &GiveOrder
 9
        ) EmpRank
10 FROM Emp
11 ORDER BY EmpRank
12 ) E1
13 WHERE E1.EmpRank &GiveRankLimit
14* ORDER BY ROWNUM
Enter value for giveorder: ASC
Enter value for giveranklimit: = 1
  ROWNUM ENAME
______
                      20 800
      1 SMITH
SQL> /
Enter value for giveorder: ASC
Enter value for giveranklimit: <= 5</pre>
   ROWNUM ENAME
      1 SMITH 20 800
                                         1
       2 JAMES
                      30
                              950
                      20
                             1100
       3 ADAMS
                                        3
       4 MARTIN
                             1250
                      30
                      30
                             1250
       5 WARD
                      10
                             1300
```

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6 rows selected.

SQL> /

Enter value for giveorder: DESC
Enter value for giveranklimit: = 1

ROWNUM	ENAME	DEPTNO	SAL	EMPRANK
1	KING	10	5000	1

SQL> /

Enter value for giveorder: ASC
Enter value for giveranklimit: <= 5</pre>

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 giveorder: DESC
Enter value for giveranklimit: <= 5</pre>

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 giveorder: ASC

Enter value for giveranklimit: IN(1, 4, 8)

ROWNUM ENAME DEPTNO SAL EMPRANK

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1	SMITH	20	800	1
2	WARD	30	1250	4
3	MARTIN	30	1250	4
4	CLARK	10	2450	8

SQL> /

Enter value for giveorder: DESC

Enter value for giveranklimit: IN(1, 4, 8)

EMPRANK	SAL	DEPTNO	ROWNUM ENAME	ROWN
1	5000	10	1 KING	
4	2850	30	2 BLAKE	
8	1300	₹ 10	3 MILLE	

SQL> /

Enter value for giveorder: ASC

Enter value for giveranklimit: 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 giveorder: DESC

Enter value for giveranklimit: BETWEEN 1 AND 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.

SOL> SPOOLOFF

SP2-0042: unknown command "SPOOLOFF" - rest of line ignored.

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SQL> SPOOL OFF

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