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

14 rows selected.

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.

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  1  SELECT
  2  EName,
  3  DeptNo,
  4  Sal,
  5  DENSE_RANK()
  6  OVER
  7   (
  8   ORDER BY Sal DESC
  9   )  "Rank By Org",
 10  DENSE_RANK()
 11  OVER
 12   (
 13   PARTITION BY Deptno
 14   ORDER BY Sal DESC
 15   )  "Rank By Dept"
 16  FROM Emp
 17* ORDER BY DeptNo, Sal DESC
SQL> /

ENAME           DEPTNO        SAL Rank By Org Rank By Dept
---------- ---------- ---------- ----------- ------------
KING               10        5000          1            1
CLARK              10        2450          5            2
MILLER             10        1300          8            3
SCOTT              20        3000          2            1
FORD               20        3000          2            1
```

```
JONES               20       2975            3            2
ADAMS               20       1100           10            3
SMITH               20        800           12            4
BLAKE               30       2850            4            1
ALLEN               30       1600            6            2
TURNER              30       1500            7            3
MARTIN              30       1250            9            4
WARD                30       1250            9            4
JAMES               30        950           11            5

14 rows selected.

SQL> cl scr

SQL> ED
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  1   SELECT
  2   EName,
  3   DeptNo,
  4   Sal,
  5   SUM(Sal)
  6   OVER
  7    (
  8    ORDER BY Sal DESC
  9    ) "Run Total"
 10*  FROM Emp
SQL> /

ENAME          DEPTNO        SAL  Run Total
---------- ---------- ---------- ----------
KING               10       5000       5000
SCOTT              20       3000      11000
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      26175
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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  1   SELECT
  2   EName,
  3   DeptNo,
  4   Sal,
  5   SUM(Sal)
  6   OVER
  7   (
  8   ORDER BY Sal DESC, Empno
  9   ) "Run Total"
 10*  FROM Emp
SQL> /

ENAME          DEPTNO        SAL  Run Total
----------  ----------  ----------  ----------
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
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   ) "Run Total",
```

```
 10  AVG(Sal)
 11  OVER
 12   (
 13   ORDER BY Sal DESC, Empno
 14   ) "Moving Avg"
 15* FROM Emp
SQL> /
```

```
ENAME          DEPTNO        SAL  Run Total Moving Avg
---------- ---------- ---------- ---------- ----------
KING               10       5000       5000       5000
SCOTT              20       3000       8000       4000
FORD               20       3000      11000 3666.66667
JONES              20       2975      13975    3493.75
BLAKE              30       2850      16825       3365
CLARK              10       2450      19275     3212.5
ALLEN              30       1600      20875 2982.14286
TURNER             30       1500      22375   2796.875
MILLER             10       1300      23675 2630.55556
WARD               30       1250      24925     2492.5
MARTIN             30       1250      26175 2379.54545
ADAMS              20       1100      27275 2272.91667
JAMES              30        950      28225 2171.15385
SMITH              20        800      29025 2073.21429

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1   SELECT
  2   EName,
  3   DeptNo,
  4   Sal,
  5   SUM(Sal)
  6   OVER
  7    (
  8    PARTITION BY Deptno
  9    ORDER BY Sal DESC, Empno
 10   ) "Run Total",
 11   AVG(Sal)
 12   OVER
 13    (
 14    PARTITION BY Deptno
 15    ORDER BY Sal DESC, Empno
 16   ) "Moving Avg"
 17   FROM Emp
```

```
  18* ORDER BY Deptno
SQL> /

ENAME           DEPTNO       SAL  Run Total Moving Avg
---------- ---------- ---------- ---------- ----------
KING               10      5000       5000       5000
CLARK              10      2450       7450       3725
MILLER             10      1300       8750 2916.66667
SCOTT              20      3000       3000       3000
FORD               20      3000       6000       3000
JONES              20      2975       8975 2991.66667
ADAMS              20      1100      10075    2518.75
SMITH              20       800      10875       2175
BLAKE              30      2850       2850       2850
ALLEN              30      1600       4450       2225
TURNER             30      1500       5950 1983.33333
WARD               30      1250       7200       1800
MARTIN             30      1250       8450       1690
JAMES              30       950       9400 1566.66667

14 rows selected.

SQL> cl scr

SQL> SELECT
  2  DeptNo,
  3  Ename,
  4  Sal,
  5  SUM(Sal)
  6  OVER
  7   (
  8   PARTITION BY DeptNo
  9   ORDER BY EName
 10   ROWS 2 PRECEDING
 11   ) "Sliding Total"
 12  FROM Emp
 13  ORDER BY DeptNo, EName;

    DEPTNO ENAME             SAL Sliding Total
---------- ---------- ---------- -------------
        10 CLARK            2450          2450
        10 KING             5000          7450
        10 MILLER           1300          8750
        20 ADAMS            1100          1100
        20 FORD             3000          4100
        20 JONES            2975          7075
        20 SCOTT            3000          8975
```

```
        20  SMITH            800            6775
        30  ALLEN           1600            1600
        30  BLAKE           2850            4450
        30  JAMES            950            5400
        30  MARTIN          1250            5050
        30  TURNER          1500            3700
        30  WARD            1250            4000

14 rows selected.

SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  DeptNo,
  3  Ename,
  4  Sal,
  5  SUM(Sal)
  6  OVER
  7   (
  8   ORDER BY EName
  9   ) "Sliding Total"
 10* FROM Emp
SQL> /

    DEPTNO ENAME            SAL Sliding Total
---------- ---------- ---------- -------------
        20  ADAMS           1100            1100
        30  ALLEN           1600            2700
        30  BLAKE           2850            5550
        10  CLARK           2450            8000
        20  FORD            3000           11000
        30  JAMES            950           11950
        20  JONES           2975           14925
        10  KING            5000           19925
        30  MARTIN          1250           21175
        10  MILLER          1300           22475
        20  SCOTT           3000           25475
        20  SMITH            800           26275
        30  TURNER          1500           27775
        30  WARD            1250           29025

14 rows selected.

SQL> SELECT
  2  DeptNo,
  3  Ename,
```

```
  4  Sal,
  5  SUM(Sal)
  6  OVER
  7     (
  8     PARTITION BY DeptNo
  9     ORDER BY EName
 10     ROWS 2 PRECEDING
 11     ) "Sliding Total"
 12  FROM Emp
 13  ORDER BY DeptNo, EName;

    DEPTNO ENAME            SAL Sliding Total
---------- ---------- ---------- -------------
        10 CLARK           2450          2450
        10 KING            5000          7450
        10 MILLER          1300          8750
        20 ADAMS           1100          1100
        20 FORD            3000          4100
        20 JONES           2975          7075
        20 SCOTT           3000          8975
        20 SMITH            800          6775
        30 ALLEN           1600          1600
        30 BLAKE           2850          4450
        30 JAMES            950          5400
        30 MARTIN          1250          5050
        30 TURNER          1500          3700
        30 WARD            1250          4000

14 rows selected.

SQL> SELECT * FROm EmpED
  2
SQL>
SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  DeptNo,
  3  Ename,
  4  Sal,
  5  SUM(Sal)
  6  OVER
  7     (
  8     PARTITION BY DeptNo
  9     ORDER BY EName
 10     ROWS 2 PRECEDING
 11     ) "Sliding Total",
```

SkyEss Techno Solutions Pvt. Ltd.
Flat No. 201, II Floor, Abhilash Towers, BK Guda, Hyderabad – 500 038
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```
 12  AVG(Sal)
 13  OVER
 14     (
 15     PARTITION BY DeptNo
 16     ORDER BY EName
 17     ROWS 2 PRECEDING
 18     ) "Sliding Total"
 19  FROM Emp
 20* ORDER BY DeptNo, EName
SQL> ED
Wrote file afiedt.buf

  1  SELECT
  2  DeptNo,
  3  Ename,
  4  Sal,
  5  SUM(Sal)
  6  OVER
  7     (
  8     PARTITION BY DeptNo
  9     ORDER BY EName
 10     ROWS 2 PRECEDING
 11     ) "Sliding Total",
 12  AVG(Sal)
 13  OVER
 14     (
 15     PARTITION BY DeptNo
 16     ORDER BY EName
 17     ROWS 2 PRECEDING
 18     ) "Sliding Total"
 19  FROM Emp
 20* ORDER BY DeptNo, EName
SQL> /

    DEPTNO ENAME             SAL Sliding Total Sliding Total
---------- ---------- ---------- ------------- -------------
        10 CLARK            2450          2450          2450
        10 KING             5000          7450          3725
        10 MILLER           1300          8750    2916.66667
        20 ADAMS            1100          1100          1100
        20 FORD             3000          4100          2050
        20 JONES            2975          7075    2358.33333
        20 SCOTT            3000          8975    2991.66667
        20 SMITH             800          6775    2258.33333
        30 ALLEN            1600          1600          1600
        30 BLAKE            2850          4450          2225
        30 JAMES             950          5400          1800
```

```
        30 MARTIN                  1250          5050      1683.33333
        30 TURNER                  1500          3700      1233.33333
        30 WARD                    1250          4000      1333.33333

14 rows selected.

SQL> SPOOL OFF
```