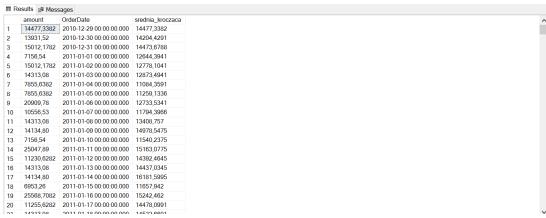
ZADANIE 1

```
USE AdventureWorksDW2019
 1
     GO
     -- ZADANIE 1
   ⊟WITH temp AS(
     SELECT sum(SalesAmount) AS amount ,OrderDate
     FROM dbo.FactInternetSales
     GROUP BY OrderDate
 9
10
     SELECT amount, OrderDate,
AVG(amount) OVER (ORDER BY OrderDate ROWS BETWEEN 3 PRECEDING AND CURRENT ROW) AS srednia_kroczaca
FROM temp
11
12
13
     ORDER BY OrderDate
14
15
```



ZADANIE 2

```
16 -- ZADANIE 2
      -- ZADANALE Z

-- SELECT OrderDateMonth AS month_of_year,ISNULL([0], 0) AS [0], ISNULL([1], 0) AS [1],ISNULL([2], 0) AS [2],

ISNULL([3], 0) AS [3],ISNULL([4], 0) AS [4],ISNULL([5], 0) AS [5],ISNULL([6], 0) AS [6],ISNULL([7], 0) AS [7],

ISNULL([8], 0) AS [8],ISNULL([9], 0) AS [9],ISNULL([10], 0) AS [10]
20
21
         FROM
23
            SELECT
24
25
            SalesTerritoryKey,
            MONTH(OrderDate) as OrderDateMonth,
sum(SalesAmount) as SalesAmount
           FROM dbo.FactInternetSales
WHERE YEAR(OrderDate) = 2011
GROUP BY MONTH(OrderDate),SalesTerritoryKey
27
28
29
30
31
         ) AS SourceTable
         PIVOT
32
33
            SUM(SalesAmount)
            FOR SalesTerritoryKey IN ([0],[1],[2],[3],[4],[5],[6],[7],[8],[9],[10])
34
         ) AS PivotTable;
```

	month_of_year	0	1	2	3	4	5	6	7	8	9	10
1	1	0,00	55186,5046	0,00	0,00	65628,7764	0,00	21965,4382	43930,8764	39182,69	207130,2928	36799,3364
2	2	0,00	43955,8764	0,00	0,00	90320,1064	0,00	25340,4282	11052,3482	37180,8964	204151,121	54334,126
3	3	0,00	50235,0382	0,00	0,00	114065,301	0,00	17891,35	36977,6164	22168,7182	177393,5028	66467,1328
4	4	0,00	58968,0546	0,00	0,00	113837,021	0,00	11929,7264	10734,81	40174,3264	214593,3928	51836,514
5	5	0,00	80819,2346	0,00	0,00	122638,7946	0,00	29846,0764	40377,6064	43396,0364	217636,8228	26966,904
6	6	0,00	122638,7946	0,00	0,00	167422,0492	0,00	36278,5182	34098,4446	55682,3228	267232,2856	54487,406
7	7	0,00	97393,8674	0,00	0,00	112210,5446	0,00	50413,3182	33246,0664	9075,5546	223109,1074	71298,0982
8	8	0,00	59959,691	0,00	0,00	63220,4228	0,00	164714,6782	33895,1646	51290,6964	190022,3274	51454,9546
9	9	0,00	67070,73	0,00	0,00	154417,9074	0,00	32001,15	38490,071	61123,1282	218157,641	31822,87
10	10	0,00	86716,8364	0,00	0,00	192094,622	0,00	71362,12	40759,1664	53869,7874	228029,331	35376,14
11	11	0,00	84194,2246	0,00	0,00	173052,3492	0,00	43256,7782	55364,7846	52332,3328	215724,2874	36621,0564
12	12	0,00	119917,9089	0,00	0,00	162320,5167	0,00	66572,2164	31918,371	55023,6746	200552,1373	33126,6782

ZADANIE 3

```
37
38 -- ZADANIE 3
39 -- SELECT OrganizationKey, DepartmentGroupKey, SUM(Amount) AS Sum_Amount
40 FROM FactFinance
GROUP BY ROLLUP(OrganizationKey, DepartmentGroupKey)
ORDER BY OrganizationKey
42
43
```

⊞ Re	esults Message	s	
	OrganizationKey	DepartmentGroupKey	Sum_Amount
1	NULL	NULL	1358640412,7
2	3	1	3453530
3	3	2	3623615
4	3	6	23680792
5	3	7	103245409,4
6	3	NULL	134003346,4
7	4	1	3714323
8	4	2	3831339
9	4	6	26330122
10	4	7	105047104,8
11	4	NULL	138922888,8
12	5	1	2782452
13	5	2	4280402
14	5	6	28680910
15	5	7	113288317,6
16	5	MI II I	1/10032081 6

ZADANIE 4

```
43
44
45 -- ZADANIE 4
45 -- SELECT OrganizationKey, DepartmentGroupKey, SUM(Amount) AS Sum_Amount
46 FROM FactFinance
GROUP BY CUBE(OrganizationKey, DepartmentGroupKey)
ORDER BY OrganizationKey
48
49
```

```
OrganizationKey DepartmentGroupKey Sum_Amount
     NULL
                                      870742,17
221314887,4
     NULL
     NULL
                                      990993430,9
     NULL
                    NULL
                                      1358640412,7
38237453,45
6
7
    NULL
NULL
                                      84542533,92
    NULL
                                       1627440,25
                    NULL
                                      134003346.4
10
                                      103245409,4
11
                                      23680792
12
    3
                                      3623615
                                      3453530
13
    3
14
```

ZADANIE 5

```
50
51
     -- ZADANIE 5
52
   ЫWITH temp AS(
53
         SELECT OrganizationKey, SUM(Amount) AS SumAmount
54
         FROM dbo.FactFinance
55
         WHERE YEAR(Date)=2012
56
         GROUP BY OrganizationKey
57
58
59
     SELECT t.OrganizationKey, t.SumAmount, PERCENT_RANK() OVER (ORDER BY t.SumAmount) AS Percentiles,d.OrganizationName
60
     FROM temp t
     JOIN dbo.DimOrganization d
61
    ON d.OrganizationKey = t.OrganizationKey
ORDER BY t.OrganizationKey
62
63
64
```

OrganizationKey SumAmount Percentiles OrganizationName 0,625 1 3 57591781,4 Northeast Division 2 4 38434641,2 0,375 Northwest Division 3 5 52938481,4 0,5 Central Division 6 0,875 Southeast Division 4 92428276,6 7 5 87276465.2 0.75 Southwest Division 6 8 107976739,14 1 Canadian Division 7 11 21786845,65 0,25 France 8 12 4288252,40999999 0,125 Germany 9 13 1392505,88 0 Australia

ZADANIE 6

```
-- ZADANIE 6
67
   ⊔WITH temp AS(
        SELECT OrganizationKey, SUM(Amount) AS SumAmount
68
        FROM dbo.FactFinance
69
        WHERE YEAR(Date)=2012
70
        GROUP BY OrganizationKey
71
72
73
     SELECT t.OrganizationKey, t.SumAmount, PERCENT_RANK() OVER (ORDER BY t.SumAmount) AS Percentiles,
74
75
        STDEV(t.SumAmount) OVER (ORDER BY t.SumAmount) AS std_dev, d.OrganizationName
76
77
     JOIN dbo.DimOrganization d
78
    ON d.OrganizationKey = t.OrganizationKey
    ORDER BY t.OrganizationKey
79
80
```

	OrganizationKey	SumAmount	Percentiles	std_dev	OrganizationName
1	3	57591781,4	0,625	24097472,5798006	Northeast Division
)	4	38434641,2	0,375	17189531,6038978	Northwest Divisio
3	5	52938481,4	0,5	22079830,3035514	Central Division
ļ	6	92428276,6	0,875	34635783,8868116	Southeast Division
5	7	87276465,2	0,75	31021664,8937598	Southwest Division
6	8	107976739,14	1	38692899,4026427	Canadian Division
7	11	21786845,65	0,25	11034153,1014632	France
3	12	4288252,40999999	0,125	2047602,00796041	Germany
)	13	1392505,88	0	NULL	Australia