

--Zad1

```
with zad1 as (  
    SELECT sum([SalesAmount]) as sum_amount  
           , [OrderDate] as o_date  
    FROM [AdventureWorksDW2019].[dbo].[FactInternetSales]  
    group by [OrderDate])  
  
    SELECT avg(sum_amount) over (order by o_date rows  
    between 3 preceding and current row) as rolling FROM zad1  
    order by o_date
```

110 %

Results Messages

	OrganizationKey	OrganizationName	Amount	percentile	StdDeviation
1	3	Northeast Division	57591781,4	0,625	24097472,5798006
2	4	Northwest Division	38434641,2	0,375	17189531,6038978
3	5	Central Division	52938481,4	0,5	22079830,3035514
4	6	Southeast Division	92428276,6	0,875	34635783,8868116
5	7	Southwest Division	87276465,2	0,75	31021664,8937598
6	8	Canadian Division	107976739,14	1	38692899,4026427
7	11	France	21786845,65	0,25	11034153,1014632
8	12	Germany	4288252,40999999	0,125	2047602,00796041
9	13	Australia	1392505,88	0	NULL

--Zad2

```
SELECT m 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]" FROM  
  
(  
    SELECT [SalesTerritoryKey], month([OrderDate]) as m,  
           sum([SalesAmount]) as SalesAmount  
    FROM [AdventureWorksDW2019].[dbo].[FactInternetSales]  
    where YEAR([OrderDate]) = 2011  
    group by  
    MONTH([OrderDate]), [SalesTerritoryKey]  
    ) as MainTable  
PIVOT  
(  
    sum(SalesAmount)  
    FOR [SalesTerritoryKey] in ([0], [1], [2], [3], [4], [5], [6], [7], [8], [9], [10])  
    ) as PivotTable;
```

110 %

Results Messages

	OrganizationKey	OrganizationName	Amount	percentile	StdDeviation
1	3	Northeast Division	57591781,4	0,625	24097472,5798006
2	4	Northwest Division	38434641,2	0,375	17189531,6038978
3	5	Central Division	52938481,4	0,5	22079830,3035514
4	6	Southeast Division	92428276,6	0,875	34635783,8868116
5	7	Southwest Division	87276465,2	0,75	31021664,8937598
6	8	Canadian Division	107976739,14	1	38692899,4026427
7	11	France	21786845,65	0,25	11034153,1014632
8	12	Germany	4288252,40999999	0,125	2047602,00796041
9	13	Australia	1392505,88	0	NULL

--Zad3

```
SELECT [OrganizationKey]
      ,[DepartmentGroupKey],
      sum([Amount])
FROM [AdventureWorksDW2019].[dbo].[FactFinance]
group by rollup([OrganizationKey],[DepartmentGroupKey])
ORDER BY [OrganizationKey];
```

110 %

Results Messages

	OrganizationKey	OrganizationName	Amount	percentile	StdDeviation
1	3	Northeast Division	57591781,4	0,625	24097472,5798006
2	4	Northwest Division	38434641,2	0,375	17189531,6038978
3	5	Central Division	52938481,4	0,5	22079830,3035514
4	6	Southeast Division	92428276,6	0,875	34635783,8868116
5	7	Southwest Division	87276465,2	0,75	31021664,8937598
6	8	Canadian Division	107976739,14	1	38692899,4026427
7	11	France	21786845,65	0,25	11034153,1014632
8	12	Germany	4288252,40999999	0,125	2047602,00796041
9	13	Australia	1392505,88	0	NULL

--Zad4

```
SELECT [OrganizationKey]
      ,[DepartmentGroupKey],
      sum([Amount])
FROM [AdventureWorksDW2019].[dbo].[FactFinance]
group by cube([OrganizationKey],[DepartmentGroupKey])
ORDER BY [OrganizationKey];
```

110 %

Results Messages

	OrganizationKey	OrganizationName	Amount	percentile	StdDeviation
1	3	Northeast Division	57591781,4	0,625	24097472,5798006
2	4	Northwest Division	38434641,2	0,375	17189531,6038978
3	5	Central Division	52938481,4	0,5	22079830,3035514
4	6	Southeast Division	92428276,6	0,875	34635783,8868116
5	7	Southwest Division	87276465,2	0,75	31021664,8937598
6	8	Canadian Division	107976739,14	1	38692899,4026427
7	11	France	21786845,65	0,25	11034153,1014632
8	12	Germany	4288252,40999999	0,125	2047602,00796041
9	13	Australia	1392505,88	0	NULL

```
--Zad5
with zad5 as (
select [OrganizationKey], sum([Amount]) as Amount
from [AdventureWorksDW2019].[dbo].[FactFinance]
where year([Date]) = 2012
group by [OrganizationKey]
)

select distinct do.[OrganizationKey], do.[OrganizationName], zad5.Amount,
PERCENT_RANK() over (order by Amount) as percentile from zad5
join [AdventureWorksDW2019].[dbo].[DimOrganization] do on do.OrganizationKey = zad5.OrganizationKey
order by [OrganizationKey]
```

110 %

Results Messages

	OrganizationKey	OrganizationName	Amount	percentile	StdDeviation
1	3	Northeast Division	57591781,4	0,625	24097472,5798006
2	4	Northwest Division	38434641,2	0,375	17189531,6038978
3	5	Central Division	52938481,4	0,5	22079830,3035514
4	6	Southeast Division	92428276,6	0,875	34635783,8868116
5	7	Southwest Division	87276465,2	0,75	31021664,8937598
6	8	Canadian Division	107976739,14	1	38692899,4026427
7	11	France	21786845,65	0,25	11034153,1014632
8	12	Germany	4288252,40999999	0,125	2047602,00796041
9	13	Australia	1392505,88	0	NULL

```
--Zad6
with zad6 as (
select [OrganizationKey], sum([Amount]) as Amount
from [AdventureWorksDW2019].[dbo].[FactFinance]
where year([Date]) = 2012
group by [OrganizationKey]
)

select distinct do.[OrganizationKey], do.[OrganizationName], zad6.Amount,
PERCENT_RANK() over (order by Amount) as percentile,
STDEV([Amount]) over (order by Amount) as StdDeviation
from zad6
join [AdventureWorksDW2019].[dbo].[DimOrganization] do on do.OrganizationKey = zad6.OrganizationKey
order by [OrganizationKey]
```

1 %

Results Messages

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