

ADVENTURE WORK DW 2014

1.

```
use AdventureWorksDW2014;
select c.EnglishProductCategoryName as Product_Category_Name,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
join dbo.DimProduct as p ON i.ProductKey = p.ProductKey
join dbo.DimProductSubcategory as s ON p.ProductSubcategoryKey = s.ProductSubcategoryKey
join dbo.DimProductCategory as c ON s.ProductCategoryKey = c.ProductCategoryKey
GROUP BY c.ProductCategoryKey,c.EnglishProductCategoryName
ORDER BY Sales DESC;
```

```
use AdventureWorksDW2014;
select c.EnglishProductCategoryName as Product_Category_Name,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
join dbo.DimProduct as p ON i.ProductKey = p.ProductKey
join dbo.DimProductSubcategory as s ON p.ProductSubcategoryKey = s.ProductSubcategoryKey
join dbo.DimProductCategory as c ON s.ProductCategoryKey = c.ProductCategoryKey
GROUP BY c.ProductCategoryKey,c.EnglishProductCategoryName
ORDER BY Sales DESC;
```

100 %

Results Messages

| | Product_Category_Name | Sales | Product_Cost | Profit | Total_Number_Of_Order | Quantity_Ordered |
|---|-----------------------|---------------|---------------|---------------|-----------------------|------------------|
| 1 | Bikes | 28318144.6507 | 16812348.1501 | 11505796.5006 | 15205 | 15205 |
| 2 | Accessories | 700759.96 | 262085.3919 | 438674.5681 | 36092 | 36092 |
| 3 | Clothing | 339772.61 | 203360.0337 | 136412.5763 | 9101 | 9101 |

2.

```
use AdventureWorksDW2014;
```

```
select c.EnglishProductCategoryName as Product_Category_Name,
       sum(r.SalesAmount) as Sales,
       sum(r.TotalProductCost) as Product_Cost,
       sum((r.SalesAmount)-(r.TotalProductCost)) as Profit,
       count(r.SalesOrderNumber) as Total_Number_Of_Order,
       sum(r.OrderQuantity) as Quantity_Ordered
from dbo.FactResellerSales as r
join dbo.DimProduct as p ON r.ProductKey = p.ProductKey
join dbo.DimProductSubcategory as s ON p.ProductSubcategoryKey = s.ProductSubcategoryKey
join dbo.DimProductCategory as c ON s.ProductCategoryKey = c.ProductCategoryKey
GROUP BY c.ProductCategoryKey, c.EnglishProductCategoryName
ORDER BY Sales DESC;
```

```
use AdventureWorksDW2014;
```

```
select c.EnglishProductCategoryName as Product_Category_Name,
       sum(r.SalesAmount) as Sales,
       sum(r.TotalProductCost) as Product_Cost,
       sum((r.SalesAmount)-(r.TotalProductCost)) as Profit,
       count(r.SalesOrderNumber) as Total_Number_Of_Order,
       sum(r.OrderQuantity) as Quantity_Ordered
from dbo.FactResellerSales as r
join dbo.DimProduct as p ON r.ProductKey = p.ProductKey
join dbo.DimProductSubcategory as s ON p.ProductSubcategoryKey = s.ProductSubcategoryKey
join dbo.DimProductCategory as c ON s.ProductCategoryKey = c.ProductCategoryKey
GROUP BY c.ProductCategoryKey, c.EnglishProductCategoryName
ORDER BY Sales DESC;
```

100 %

Results Messages

| | Product_Category_Name | Sales | Product_Cost | Profit | Total_Number_Of_Order | Quantity_Ordered |
|---|-----------------------|---------------|---------------|--------------|-----------------------|------------------|
| 1 | Bikes | 66302381.557 | 67293081.4492 | -990699.8922 | 24800 | 75015 |
| 2 | Components | 11799076.6584 | 10766110.1786 | 1032966.4798 | 18687 | 49027 |
| 3 | Clothing | 1777840.8391 | 1545417.4171 | 232423.422 | 12267 | 64497 |
| 4 | Accessories | 571297.9278 | 375505.3341 | 195792.5937 | 5101 | 25839 |

3.

```

use AdventureWorksDW2014
select Product_Category_Name ,sum(Sales) as Sales,sum(Product_Cost) as
Product_Cost,sum(Profit) as Profit,sum(Total_Number_Of_Order) as
Total_Number_Of_Order,sum(Quantity_Ordered) as Quantity_Ordered
from
(select EnglishProductCategoryName as Product_Category_Name,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
join dbo.DimProduct as p ON i.ProductKey = p.ProductKey
join dbo.DimProductSubcategory as s ON p.ProductSubcategoryKey = s.ProductSubcategoryKey
join dbo.DimProductCategory as q ON s.ProductCategoryKey = q.ProductCategoryKey
GROUP BY q.EnglishProductCategoryName

```

UNION

```

select EnglishProductCategoryName as Product_Category_Name,
sum(r.SalesAmount) as Sales,
sum(r.TotalProductCost) as Product_Cost,
sum((r.SalesAmount)-(r.TotalProductCost)) as Profit,
count(r.SalesOrderNumber) as Total_Number_Of_Order,
sum(r.OrderQuantity) as Quantity_Ordered
from dbo.FactResellerSales as r
join dbo.DimProduct as p ON r.ProductKey = p.ProductKey
join dbo.DimProductSubcategory as s ON p.ProductSubcategoryKey = s.ProductSubcategoryKey
join dbo.DimProductCategory as c ON s.ProductCategoryKey = c.ProductCategoryKey
GROUP BY c.EnglishProductCategoryName
) as My
GROUP BY Product_Category_Name;

```

```

use AdventureWorksDW2014
select Product_Category_Name ,sum(Sales) as Sales,sum(Product_Cost) as Product_Cost,sum(Profit) as Profit
from
(select EnglishProductCategoryName as Product_Category_Name,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
join dbo.DimProduct as p ON i.ProductKey = p.ProductKey
join dbo.DimProductSubcategory as s ON p.ProductSubcategoryKey = s.ProductSubcategoryKey
join dbo.DimProductCategory as q ON s.ProductCategoryKey = q.ProductCategoryKey
GROUP BY q.EnglishProductCategoryName

```

UNION

```

select EnglishProductCategoryName as Product_Category_Name,

```

| | Product_Category_Name | Sales | Product_Cost | Profit | Total_Number_Of_Order | Quantity_Ordered |
|---|-----------------------|---------------|---------------|---------------|-----------------------|------------------|
| 1 | Accessories | 1272057.8878 | 637590.726 | 634467.1618 | 41193 | 61931 |
| 2 | Bikes | 94620526.2077 | 84105429.5993 | 10515096.6084 | 40005 | 90220 |
| 3 | Clothing | 2117613.4491 | 1748777.4508 | 368835.9983 | 21368 | 73598 |
| 4 | Components | 11799076.6584 | 10766110.1786 | 1032966.4798 | 18687 | 49027 |

4.

```

use AdventureWorksDW2014
select Product_Category_Name ,Product_Sub_Category,Product_Model_Name,Product_Name,
sum(Sales) as Sales,sum(Product_Cost) as Product_Cost,sum(Profit) as Profit,
sum(Total_Number_Of_Order) as Total_Number_Of_Order,sum(Quantity_Ordered) as
Quantity_Ordered
from
(select EnglishProductCategoryName as Product_Category_Name,
s.EnglishProductSubcategoryName as Product_Sub_Category,
p.ModelName as Product_Model_Name,
p.EnglishProductName as Product_Name,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
join dbo.DimProduct as p ON i.ProductKey = p.ProductKey
join dbo.DimProductSubcategory as s ON p.ProductSubcategoryKey = s.ProductSubcategoryKey
join dbo.DimProductCategory as q ON s.ProductCategoryKey = q.ProductCategoryKey
GROUP BY
q.EnglishProductCategoryName,s.EnglishProductSubcategoryName,p.ModelName,p.EnglishProduct
Name

UNION

select c.EnglishProductCategoryName as Product_Category_Name,
s.EnglishProductSubcategoryName as Product_Sub_Category,
p.ModelName as Product_Model_Name,
p.EnglishProductName as Product_Name,
sum(r.SalesAmount) as Sales,
sum(r.TotalProductCost) as Product_Cost,
sum((r.SalesAmount)-(r.TotalProductCost)) as Profit,
count(r.SalesOrderNumber) as Total_Number_Of_Order,
sum(r.OrderQuantity) as Quantity_Ordered
from dbo.FactResellerSales as r
join dbo.DimProduct as p ON r.ProductKey = p.ProductKey
join dbo.DimProductSubcategory as s ON p.ProductSubcategoryKey = s.ProductSubcategoryKey
join dbo.DimProductCategory as c ON s.ProductCategoryKey = c.ProductCategoryKey
GROUP BY
c.EnglishProductCategoryName,s.EnglishProductSubcategoryName,p.ModelName,p.EnglishProduct
Name
) as My
Where Product_Category_Name = 'Accessories'
GROUP BY Product_Category_Name,Product_Sub_Category,
Product_Model_Name,
Product_Name;

```

```

use AdventureWorksDW2014
select Product_Category_Name ,Product_Sub_Category,Product_Model_Name,Product_Name,
sum(Sales) as Sales,sum(Product_Cost) as Product_Cost,sum(Profit) as Profit,
sum(Total_Number_Of_Order) as Total_Number_Of_Order,sum(Quantity_Ordered) as Quantity_Ordered
from
(select EnglishProductCategoryName as Product_Category_Name,
s.EnglishProductSubcategoryName as Product_Sub_Category,
p.ModelName as Product_Model_Name,
p.EnglishProductName as Product_Name,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
join dbo.DimProduct as p ON i.ProductKey = p.ProductKey
join dbo.DimProductSubcategory as s ON p.ProductSubcategoryKey = s.ProductSubcategoryKey
join dbo.DimProductCategory as q ON s.ProductCategoryKey = q.ProductCategoryKey

```

100 %

Results Messages

| | Product_Category_Name | Product_Sub_Category | Product_Model_Name | Product_Name | Sales | Product_Cost | Profit |
|----|-----------------------|----------------------|------------------------|-------------------------|-------------|--------------|--------|
| 1 | Accessories | Bike Racks | Hitch Rack - 4-Bike | Hitch Rack - 4-Bike | 237096.156 | 142090.08 | 9500 |
| 2 | Accessories | Bike Stands | All-Purpose Bike Stand | All-Purpose Bike Stand | 39591.00 | 14807.034 | 2478 |
| 3 | Accessories | Bottles and Cages | Mountain Bottle Cage | Mountain Bottle Cage | 20229.75 | 7566.0075 | 1266 |
| 4 | Accessories | Bottles and Cages | Road Bottle Cage | Road Bottle Cage | 15390.88 | 5756.2576 | 9634 |
| 5 | Accessories | Bottles and Cages | Water Bottle | Water Bottle - 30 oz. | 28654.1636 | 12718.8345 | 1593 |
| 6 | Accessories | Cleaners | Bike Wash | Bike Wash - Dissolver | 18406.9725 | 9868.3827 | 8538 |
| 7 | Accessories | Fenders | Fender Set - Mountain | Fender Set - Mountain | 46619.58 | 17435.6805 | 2918 |
| 8 | Accessories | Helmets | Sport-100 | Sport-100 Helmet, Black | 160869.5189 | 86139.3681 | 7473 |
| 9 | Accessories | Helmets | Sport-100 | Sport-100 Helmet, Blue | 165406.6181 | 88918.3665 | 7648 |
| 10 | Accessories | Helmets | Sport-100 | Sport-100 Helmet, Red | 157772.3953 | 82584.0685 | 7518 |
| 11 | Accessories | Hydration Packs | Hydration Pack | Hydration Pack - 70 oz. | 105826.4185 | 56783.5543 | 4904 |

5.

```

use AdventureWorksDW2014
select Country, sum(Sales) as Sales, sum(Product_Cost) as Product_Cost, sum(Profit) as Profit,
sum(Total_Number_Of_Order) as Total_Number_Of_Order, sum(Quantity_Ordered) as Quantity_Ordered
from
(select t.SalesTerritoryCountry as Country,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
JOIN dbo.DimSalesTerritory as t ON i.SalesTerritoryKey = t.SalesTerritoryKey
GROUP BY t.SalesTerritoryCountry

UNION

select SalesTerritoryCountry as Country,
sum(r.SalesAmount) as Sales,
sum(r.TotalProductCost) as Product_Cost,
sum((r.SalesAmount)-(r.TotalProductCost)) as Profit,
count(r.SalesOrderNumber) as Total_Number_Of_Order,
sum(r.OrderQuantity) as Quantity_Ordered
from dbo.FactResellerSales as r
JOIN dbo.DimSalesTerritory as t ON r.SalesTerritoryKey = t.SalesTerritoryKey
GROUP BY t.SalesTerritoryCountry
) as My
GROUP BY Country
Order by Sales DESC;

```

```

use AdventureWorksDW2014
select Country, sum(Sales) as Sales, sum(Product_Cost) as Product_Cost, sum(Profit) as Profit,
sum(Total_Number_Of_Order) as Total_Number_Of_Order, sum(Quantity_Ordered) as Quantity_Ordered
from
(select t.SalesTerritoryCountry as Country,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
JOIN dbo.DimSalesTerritory as t ON i.SalesTerritoryKey = t.SalesTerritoryKey
GROUP BY t.SalesTerritoryCountry

UNION

select SalesTerritoryCountry as Country,
sum(r.SalesAmount) as Sales,

```

| | Country | Sales | Product_Cost | Profit | Total_Number_Of_Order | Quantity_Ordered |
|---|----------------|---------------|---------------|--------------|-----------------------|------------------|
| 1 | United States | 62997590.721 | 58553452.1286 | 4444138.5924 | 60153 | 154092 |
| 2 | Canada | 16355770.4586 | 15347621.866 | 1008148.5926 | 19064 | 49381 |
| 3 | Australia | 10655335.9611 | 7078201.7669 | 3577134.1942 | 15058 | 18293 |
| 4 | United Kingdom | 7670721.0375 | 6273848.3522 | 1396872.6853 | 10426 | 20099 |
| 5 | France | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 6 | Germany | 4878300.3755 | 3802183.3097 | 1076117.0658 | 7464 | 13005 |

6.

```
use AdventureWorksDW2014
select Country, City, sum(Sales) as Sales, sum(Product_Cost) as Product_Cost, sum(Profit) as Profit,
sum(Total_Number_Of_Order) as Total_Number_Of_Order, sum(Quantity_Ordered) as Quantity_Ordered
from
(select t.SalesTerritoryCountry as Country, g.City as City,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
JOIN dbo.DimSalesTerritory as t ON i.SalesTerritoryKey = t.SalesTerritoryKey
JOIN dbo.DimGeography as g ON t.SalesTerritoryKey = g.SalesTerritoryKey
GROUP BY t.SalesTerritoryCountry, g.City

UNION

select SalesTerritoryCountry as Country, g.City as City,
sum(r.SalesAmount) as Sales,
sum(r.TotalProductCost) as Product_Cost,
sum((r.SalesAmount)-(r.TotalProductCost)) as Profit,
count(r.SalesOrderNumber) as Total_Number_Of_Order,
sum(r.OrderQuantity) as Quantity_Ordered
from dbo.FactResellerSales as r
JOIN dbo.DimSalesTerritory as t ON r.SalesTerritoryKey = t.SalesTerritoryKey
JOIN dbo.DimGeography as g ON t.SalesTerritoryKey = g.SalesTerritoryKey
GROUP BY t.SalesTerritoryCountry, g.City
) as My
Where Country = 'France'
GROUP BY Country, City
Order by Sales DESC;
```

```

use AdventureWorksDW2014
select Country, City, sum(Sales) as Sales, sum(Product_Cost) as Product_Cost, sum(Profit) as Profit,
sum(Total_Number_Of_Order) as Total_Number_Of_Order, sum(Quantity_Ordered) as Quantity_Ordered
from
(select t.SalesTerritoryCountry as Country, g.City as City,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
JOIN dbo.DimSalesTerritory as t ON i.SalesTerritoryKey = t.SalesTerritoryKey
JOIN dbo.DimGeography as g ON t.SalesTerritoryKey = g.SalesTerritoryKey
GROUP BY t.SalesTerritoryCountry, g.City

UNION

select SalesTerritoryCountry as Country, g.City as City,

```

100 %

Results Messages

| | Country | City | Sales | Product_Cost | Profit | Total_Number_Of_Order | Quantity_Ordered |
|----|---------|----------------------|---------------|---------------|--------------|-----------------------|------------------|
| 1 | France | Paris | 94270223.4409 | 80633806.9069 | 13636416.534 | 118144 | 258778 |
| 2 | France | Saint Ouen | 21754666.9479 | 18607801.5939 | 3146865.354 | 27264 | 59718 |
| 3 | France | Saint-Denis | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 4 | France | Sèvres | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 5 | France | Suresnes | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 6 | France | Tremblay-en-France | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 7 | France | Verrieres Le Buisson | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 8 | France | Versailles | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 9 | France | Villeneuve-d'Ascq | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 10 | France | Paris La Defense | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 11 | France | Roissy en Brie | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 12 | France | Roncq | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |

Query executed successf... | DESKTOP-CM6K5L7 (14.0 RTM) | DESKTOP-CM6K5L7J (78) | AdventureWorksDW2014 | 00:00:00 | 34 rows

7.

```
use AdventureWorksDW2014
```

```
select TOP 10 sum(rs.SalesAmount) as Sales, r.ResellerName,r.BusinessType
from dbo.FactResellerSales as rs
join dbo.DimReseller as r ON rs.ResellerKey =r.ResellerKey
GROUP BY r.ResellerName,r.BusinessType
ORDER BY Sales DESC ;
```

```
use AdventureWorksDW2014
```

```
select TOP 10 sum(rs.SalesAmount) as Sales, r.ResellerName,r.BusinessType
from dbo.FactResellerSales as rs
join dbo.DimReseller as r ON rs.ResellerKey =r.ResellerKey
GROUP BY r.ResellerName,r.BusinessType
ORDER BY Sales DESC ;
```

100 %

Results Messages

| | Sales | ResellerName | BusinessType |
|----|-------------|------------------------------------|----------------------|
| 1 | 877107.1923 | Brakes and Gears | Value Added Reseller |
| 2 | 853849.1795 | Excellent Riding Supplies | Value Added Reseller |
| 3 | 841908.7708 | Vigorous Exercise Company | Warehouse |
| 4 | 816755.5763 | Totes & Baskets Company | Value Added Reseller |
| 5 | 799277.8953 | Retail Mall | Warehouse |
| 6 | 787773.0436 | Comer Bicycle Supply | Value Added Reseller |
| 7 | 746317.5293 | Outdoor Equipment Store | Warehouse |
| 8 | 740985.8338 | Thorough Parts and Repair Services | Value Added Reseller |
| 9 | 730798.7139 | Health Spa, Limited | Warehouse |
| 10 | 727272.6494 | Fitness Toy Store | Warehouse |

8.

```
use AdventureWorksDW2014
select TOP 10 (c.FirstName + c.LastName) as Customer, sum(i.SalesAmount) as Sales
from dbo.DimCustomer as c
JOIN dbo.FactInternetSales as i
ON c.CustomerKey = i.CustomerKey
GROUP BY c.FirstName, c.LastName
ORDER BY Sales DESC;
```

The screenshot displays a SQL Server Enterprise Manager window. The top pane shows a T-SQL query that selects the top 10 customers by total sales. The query uses a join between the DimCustomer and FactInternetSales tables. The bottom pane shows the results of the query in a table format, with columns for Customer and Sales. The results are sorted in descending order of sales.

```
use AdventureWorksDW2014
select TOP 10 (c.FirstName + c.LastName) as Customer, sum(i.SalesAmount) as Sales
from dbo.DimCustomer as c
JOIN dbo.FactInternetSales as i
ON c.CustomerKey = i.CustomerKey
GROUP BY c.FirstName, c.LastName
ORDER BY Sales DESC;
```

| | Customer | Sales |
|----|-------------------|------------|
| 1 | Jordan Turner | 15999.0996 |
| 2 | Willie Xu | 13490.0596 |
| 3 | Nichole Nara | 13295.38 |
| 4 | Kaitlyn Henderson | 13294.27 |
| 5 | Margaret He | 13269.27 |
| 6 | Randall Dominguez | 13265.99 |
| 7 | Adriana Gonzalez | 13242.70 |
| 8 | Rosa Hu | 13215.65 |
| 9 | Brandi Gill | 13195.64 |
| 10 | Brad She | 13173.19 |

Query executed successfully... | DESKTOP-CM6K5L7 (14.0 RTM) | DESKTOP-CM6K5L7J (78) | AdventureWorksDW2014 | 00:00:00 | 10 rows

9.

```

use AdventureWorksDW2014
select c.EnglishOccupation as Customer_Occupation,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
JOIN dbo.DimCustomer as c ON i.CustomerKey = c.CustomerKey
GROUP BY c.EnglishOccupation;

```

```

use AdventureWorksDW2014
select c.EnglishOccupation as Customer_Occupation,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
JOIN dbo.DimCustomer as c ON i.CustomerKey = c.CustomerKey
GROUP BY c.EnglishOccupation;

```

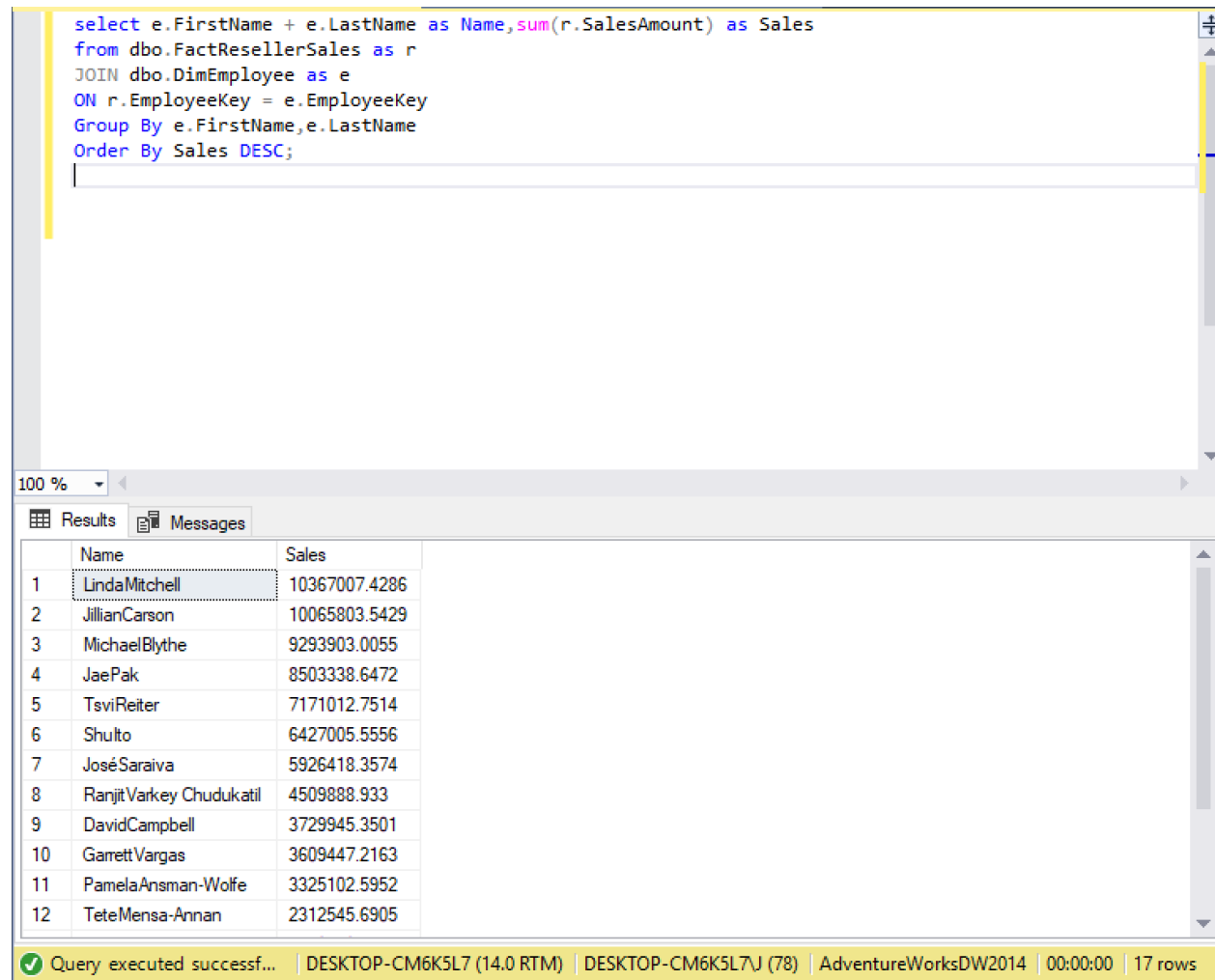
100 %

Results Messages

| | Customer_Occupation | Sales | Product_Cost | Profit | Number_Of_Order | Quantity_Ordered |
|---|---------------------|--------------|--------------|--------------|-----------------|------------------|
| 1 | Professional | 9907977.2811 | 5808408.8906 | 4099568.3905 | 18995 | 18995 |
| 2 | Clerical | 4684786.643 | 2774350.4426 | 1910436.2004 | 9624 | 9624 |
| 3 | Manual | 2857970.8932 | 1687950.4559 | 1170020.4373 | 6924 | 6924 |
| 4 | Management | 5467861.5445 | 3207526.6795 | 2260334.865 | 10594 | 10594 |
| 5 | Skilled Manual | 6440080.8589 | 3799557.1071 | 2640523.7518 | 14261 | 14261 |

10.

```
select e.FirstName + e.LastName as Name, sum(r.SalesAmount) as Sales
from dbo.FactResellerSales as r
JOIN dbo.DimEmployee as e
ON r.EmployeeKey = e.EmployeeKey
Group By e.FirstName, e.LastName
Order By Sales DESC;
```



The screenshot displays a SQL query window with the following text:

```
select e.FirstName + e.LastName as Name, sum(r.SalesAmount) as Sales
from dbo.FactResellerSales as r
JOIN dbo.DimEmployee as e
ON r.EmployeeKey = e.EmployeeKey
Group By e.FirstName, e.LastName
Order By Sales DESC;
```

Below the query window, the 'Results' tab is active, showing a table with 12 rows. The table has two columns: 'Name' and 'Sales'. The data is sorted in descending order of sales.

| | Name | Sales |
|----|-------------------------|---------------|
| 1 | LindaMitchell | 10367007.4286 |
| 2 | JillianCarson | 10065803.5429 |
| 3 | MichaelBlythe | 9293903.0055 |
| 4 | JaePak | 8503338.6472 |
| 5 | TsviReiter | 7171012.7514 |
| 6 | Shulto | 6427005.5556 |
| 7 | JoséSaraiva | 5926418.3574 |
| 8 | RanjitVarkey Chudukatil | 4509888.933 |
| 9 | DavidCampbell | 3729945.3501 |
| 10 | GarrettVargas | 3609447.2163 |
| 11 | PamelaAnsman-Wolfe | 3325102.5952 |
| 12 | TeteMensa-Annan | 2312545.6905 |

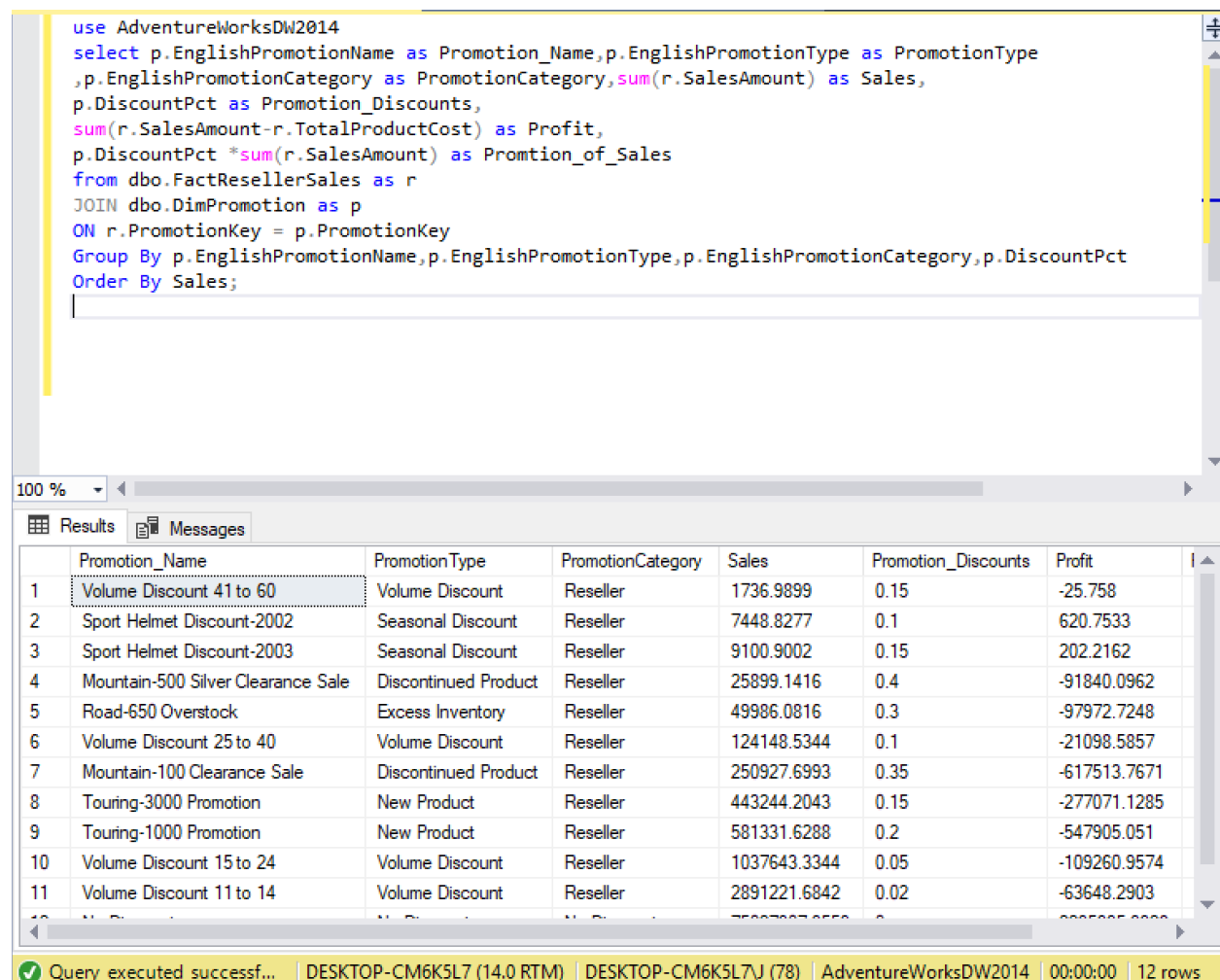
At the bottom of the window, a status bar indicates: 'Query executed successf... | DESKTOP-CM6K5L7 (14.0 RTM) | DESKTOP-CM6K5L7J (78) | AdventureWorksDW2014 | 00:00:00 | 17 rows'.

11.

```

use AdventureWorksDW2014
select p.EnglishPromotionName as Promotion_Name,p.EnglishPromotionType as PromotionType
,p.EnglishPromotionCategory as PromotionCategory,sum(r.SalesAmount) as Sales,
p.DiscountPct as Promotion_Discounts,
sum(r.SalesAmount-r.TotalProductCost) as Profit,
p.DiscountPct *sum(r.SalesAmount) as Promtion_of_Sales
from dbo.FactResellerSales as r
JOIN dbo.DimPromotion as p
ON r.PromotionKey = p.PromotionKey
Group By
p.EnglishPromotionName,p.EnglishPromotionType,p.EnglishPromotionCategory,p.DiscountPct
Order By Sales;

```



```

use AdventureWorksDW2014
select p.EnglishPromotionName as Promotion_Name,p.EnglishPromotionType as PromotionType
,p.EnglishPromotionCategory as PromotionCategory,sum(r.SalesAmount) as Sales,
p.DiscountPct as Promotion_Discounts,
sum(r.SalesAmount-r.TotalProductCost) as Profit,
p.DiscountPct *sum(r.SalesAmount) as Promtion_of_Sales
from dbo.FactResellerSales as r
JOIN dbo.DimPromotion as p
ON r.PromotionKey = p.PromotionKey
Group By
p.EnglishPromotionName,p.EnglishPromotionType,p.EnglishPromotionCategory,p.DiscountPct
Order By Sales;

```

| | Promotion_Name | PromotionType | PromotionCategory | Sales | Promotion_Discounts | Profit |
|----|------------------------------------|----------------------|-------------------|--------------|---------------------|---------------|
| 1 | Volume Discount 41 to 60 | Volume Discount | Reseller | 1736.9899 | 0.15 | -25.758 |
| 2 | Sport Helmet Discount-2002 | Seasonal Discount | Reseller | 7448.8277 | 0.1 | 620.7533 |
| 3 | Sport Helmet Discount-2003 | Seasonal Discount | Reseller | 9100.9002 | 0.15 | 202.2162 |
| 4 | Mountain-500 Silver Clearance Sale | Discontinued Product | Reseller | 25899.1416 | 0.4 | -91840.0962 |
| 5 | Road-650 Overstock | Excess Inventory | Reseller | 49986.0816 | 0.3 | -97972.7248 |
| 6 | Volume Discount 25 to 40 | Volume Discount | Reseller | 124148.5344 | 0.1 | -21098.5857 |
| 7 | Mountain-100 Clearance Sale | Discontinued Product | Reseller | 250927.6993 | 0.35 | -617513.7671 |
| 8 | Touring-3000 Promotion | New Product | Reseller | 443244.2043 | 0.15 | -277071.1285 |
| 9 | Touring-1000 Promotion | New Product | Reseller | 581331.6288 | 0.2 | -547905.051 |
| 10 | Volume Discount 15 to 24 | Volume Discount | Reseller | 1037643.3344 | 0.05 | -109260.9574 |
| 11 | Volume Discount 11 to 14 | Volume Discount | Reseller | 2891221.6842 | 0.02 | -63648.2903 |
| 12 | Mountain-100 Promotion | New Product | Reseller | 7607807.8558 | 0.35 | -6005005.0000 |

Query executed successfully... | DESKTOP-CM6K5L7 (14.0 RTM) | DESKTOP-CM6K5L7J (78) | AdventureWorksDW2014 | 00:00:00 | 12 rows

12.

```
use AdventureWorksDW2014
select Country,Territory_Group,Region,
sum(Sales) as Sales,sum(Product_Cost) as Product_Cost,sum(Profit) as Profit,
sum(Total_Number_Of_Order) as Total_Number_Of_Order,sum(Quantity_Ordered) as
Quantity_Ordered
from
(select t.SalesTerritoryCountry as Country,t.SalesTerritoryGroup as Territory_Group,
t.SalesTerritoryRegion as Region,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
JOIN dbo.DimSalesTerritory as t ON i.SalesTerritoryKey = t.SalesTerritoryKey
GROUP BY t.SalesTerritoryCountry,t.SalesTerritoryGroup,t.SalesTerritoryRegion

UNION

select SalesTerritoryCountry as Country,SalesTerritoryGroup as Territory_Group,
SalesTerritoryRegion as Region,
sum(r.SalesAmount) as Sales,
sum(r.TotalProductCost) as Product_Cost,
sum((r.SalesAmount)-(r.TotalProductCost)) as Profit,
count(r.SalesOrderNumber) as Total_Number_Of_Order,
sum(r.OrderQuantity) as Quantity_Ordered
from dbo.FactResellerSales as r
JOIN dbo.DimSalesTerritory as t ON r.SalesTerritoryKey = t.SalesTerritoryKey
GROUP BY t.SalesTerritoryCountry,t.SalesTerritoryGroup,t.SalesTerritoryRegion
) as My
GROUP BY Country,Territory_Group,Region
Order by Sales DESC;
```

```

use AdventureWorksDW2014
select Country,Territory_Group,Region,
sum(Sales) as Sales,sum(Product_Cost) as Product_Cost,sum(Profit) as Profit,
sum(Total_Number_Of_Order) as Total_Number_Of_Order,sum(Quantity_Ordered) as Quantity_Ordered
from
(select t.SalesTerritoryCountry as Country,t.SalesTerritoryGroup as Territory_Group,
t.SalesTerritoryRegion as Region,
sum(i.SalesAmount) as Sales,
sum(i.TotalProductCost) as Product_Cost,
sum(i.SalesAmount-i.TotalProductCost) as Profit,
count(i.SalesOrderNumber) as Total_Number_Of_Order,
count(i.OrderQuantity) as Quantity_Ordered
from dbo.FactInternetSales as i
JOIN dbo.DimSalesTerritory as t ON i.SalesTerritoryKey = t.SalesTerritoryKey
GROUP BY t.SalesTerritoryCountry,t.SalesTerritoryGroup,t.SalesTerritoryRegion

UNION

```

100 %

Results Messages

| | Country | Territory_Group | Region | Sales | Product_Cost | Profit | Total_Number_Of_Order | Quantity_C |
|----|----------------|-----------------|----------------|---------------|---------------|--------------|-----------------------|------------|
| 1 | United States | North America | Southwest | 24184609.6047 | 21828466.1069 | 2356143.4978 | 25644 | 59105 |
| 2 | Canada | North America | Canada | 16355770.4586 | 15347621.866 | 1008148.5926 | 19064 | 49381 |
| 3 | United States | North America | Northwest | 16084942.5513 | 14344414.4862 | 1740528.0651 | 16865 | 36776 |
| 4 | Australia | Pacific | Australia | 10655335.9611 | 7078201.7669 | 3577134.1942 | 15058 | 18293 |
| 5 | United States | North America | Central | 7909009.0073 | 7767099.4831 | 141909.5242 | 5832 | 19493 |
| 6 | United States | North America | Southeast | 7879655.0747 | 7754250.7257 | 125404.349 | 5976 | 18875 |
| 7 | United Kingdom | Europe | United Kingdom | 7670721.0375 | 6273848.3522 | 1396872.6853 | 10426 | 20099 |
| 8 | France | Europe | France | 7251555.6493 | 6202600.5313 | 1048955.118 | 9088 | 19906 |
| 9 | United States | North America | Northeast | 6939374.483 | 6859221.3267 | 80153.1563 | 5836 | 19843 |
| 10 | Germany | Europe | Germany | 4878300.3755 | 3802183.3097 | 1076117.0658 | 7464 | 13005 |

13.

```
use AdventureWorksDW2014
select Yr as Sales_Year , sum(Sales) as Sales
from
(select
sum(i.SalesAmount) as Sales,
YEAR(i.OrderDate) as Yr
from dbo.FactInternetSales as i
GROUP BY YEAR(i.OrderDate)
```

UNION

```
select
sum(r.SalesAmount) as Sales,
YEAR(r.OrderDate) as Yr
from dbo.FactResellerSales as r
GROUP BY YEAR(r.OrderDate)
) as My
GROUP BY Yr
Order By Yr DESC;
```

```
use AdventureWorksDW2014
select Yr as Sales_Year , sum(Sales) as Sales
from
(select
sum(i.SalesAmount) as Sales,
YEAR(i.OrderDate) as Yr
from dbo.FactInternetSales as i
GROUP BY YEAR(i.OrderDate)

UNION

select
sum(r.SalesAmount) as Sales,
YEAR(r.OrderDate) as Yr
from dbo.FactResellerSales as r
GROUP BY YEAR(r.OrderDate)
) as My
GROUP BY Yr
```

100 %

Results Messages

| | Sales_Year | Sales |
|---|------------|---------------|
| 1 | 2014 | 45694.72 |
| 2 | 2013 | 49926384.4972 |
| 3 | 2012 | 34036116.7273 |
| 4 | 2011 | 25268328.6434 |
| 5 | 2010 | 532749.6151 |

14.

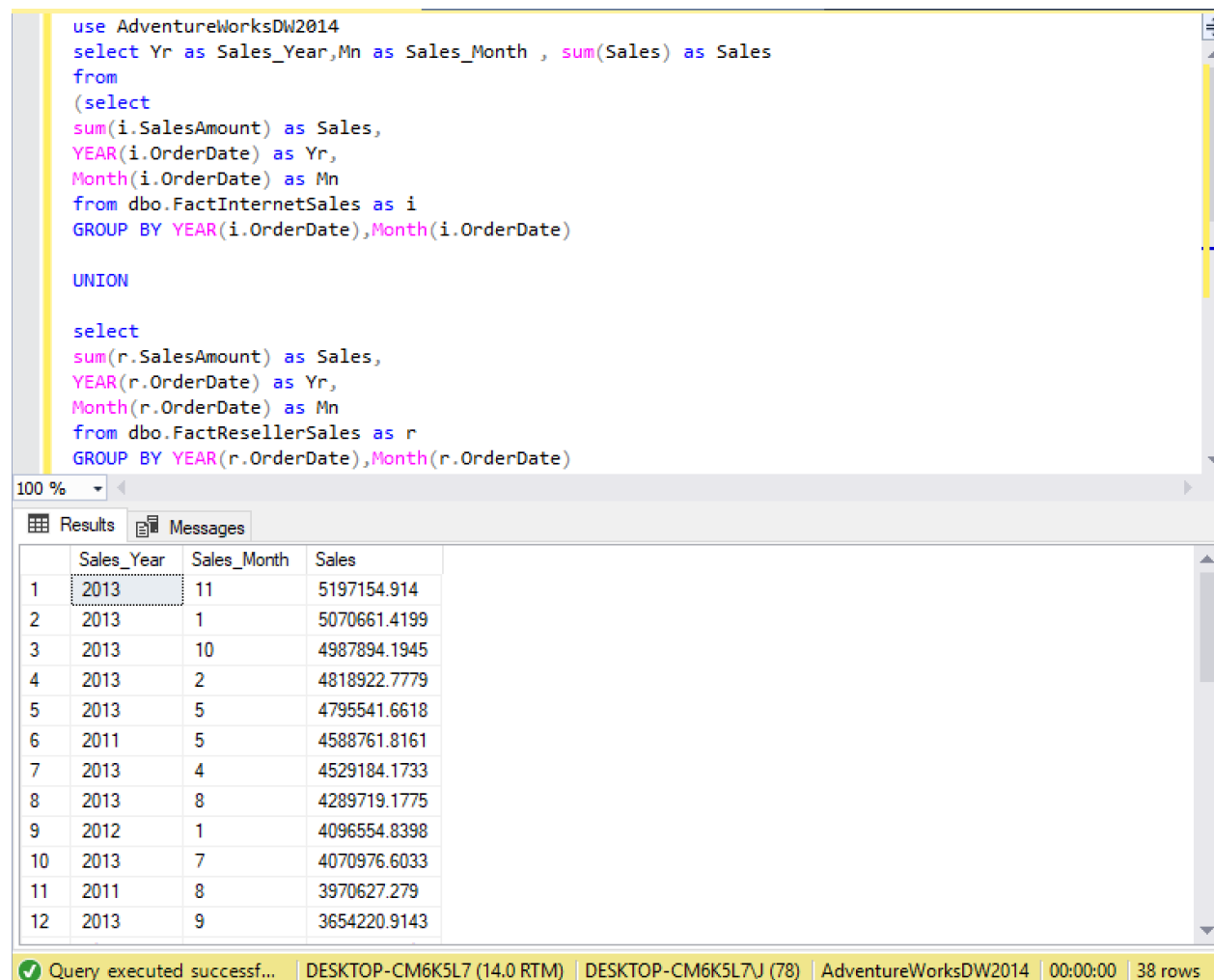
```

use AdventureWorksDW2014
select Yr as Sales_Year,Mn as Sales_Month , sum(Sales) as Sales
from
(select
sum(i.SalesAmount) as Sales,
YEAR(i.OrderDate) as Yr,
Month(i.OrderDate) as Mn
from dbo.FactInternetSales as i
GROUP BY YEAR(i.OrderDate),Month(i.OrderDate)

UNION

select
sum(r.SalesAmount) as Sales,
YEAR(r.OrderDate) as Yr,
Month(r.OrderDate) as Mn
from dbo.FactResellerSales as r
GROUP BY YEAR(r.OrderDate),Month(r.OrderDate)
) as My
GROUP BY Yr,Mn
Order By Sales DESC;

```



The screenshot shows a SQL query execution window. The query is the same as the one provided in the previous block. Below the query, the results are displayed in a grid with 4 columns: Sales_Year, Sales_Month, and Sales. The grid contains 12 rows of data, sorted by Sales in descending order.

| | Sales_Year | Sales_Month | Sales |
|----|------------|-------------|--------------|
| 1 | 2013 | 11 | 5197154.914 |
| 2 | 2013 | 1 | 5070661.4199 |
| 3 | 2013 | 10 | 4987894.1945 |
| 4 | 2013 | 2 | 4818922.7779 |
| 5 | 2013 | 5 | 4795541.6618 |
| 6 | 2011 | 5 | 4588761.8161 |
| 7 | 2013 | 4 | 4529184.1733 |
| 8 | 2013 | 8 | 4289719.1775 |
| 9 | 2012 | 1 | 4096554.8398 |
| 10 | 2013 | 7 | 4070976.6033 |
| 11 | 2011 | 8 | 3970627.279 |
| 12 | 2013 | 9 | 3654220.9143 |

Query executed successfully... | DESKTOP-CM6K5L7 (14.0 RTM) | DESKTOP-CM6K5L7J (78) | AdventureWorksDW2014 | 00:00:00 | 38 rows