

What are the sales, discount amounts, product costs, profit, quantity ordered, number of orders & average order size (sales amount) of reseller sales by Product Hierarchy (Category, Subcategory, Model & Product) and ranked by sales?

```
WITH CTE_Sales AS(  
select  
RANK() OVER(ORDER BY SUM(frs.SalesAmount) desc) 'Rank by Sales',  
dp.EnglishProductName 'Product',  
dpc.EnglishProductCategoryName 'Category',  
dpssc.EnglishProductSubcategoryName 'Sub-Category',  
dp.ModelName 'Model Name',  
SUM(frs.SalesAmount) 'Sales',  
SUM(DiscountAmount) 'Discount Amounts',  
SUM(TotalProductCost) 'Product Cost',  
SUM(SalesAmount - TotalProductCost) 'Profit',  
SUM(OrderQuantity) 'Quantity Ordered',  
COUNT(SalesOrderNumber) 'Number of Orders',  
AVG(SalesAmount) 'Average Order Size'  
from dbo.FactResellerSales frs join DimProduct dp  
on frs.ProductKey = dp.ProductKey  
join DimProductSubcategory dpssc  
on dp.ProductSubcategoryKey = dpssc.ProductSubcategoryKey  
join DimProductCategory dpc  
on dpssc.ProductCategoryKey = dpc.ProductCategoryKey  
group by dp.EnglishProductName, dpc.EnglishProductCategoryName,  
dpssc.EnglishProductSubcategoryName, dp.ModelName)
```

```
SELECT  
[Rank by Sales], Product, Category, [Sub-Category], [Model Name],  
FORMAT(Sales, 'C', 'en-us') 'Total Sales',  
FORMAT([Discount Amounts], 'C', 'en-us') 'Discount Amounts',  
FORMAT([Product Cost], 'C', 'en-us') 'Product Cost',  
FORMAT(Profit, 'C', 'en-us') Profit,  
[Quantity Ordered],  
[Number of Orders],  
FORMAT([Average Order Size], 'C', 'en-us') 'Average Order Size'  
FROM CTE_Sales
```

The screenshot shows the SQL Server Management Studio interface. The query window displays a complex SQL query using a CTE named 'CTE_Sales'. The query selects various metrics including Rank by Sales, Product, Category, Sub-Category, Model Name, Total Sales, Discount Amounts, Product Cost, Profit, Quantity Ordered, Number of Orders, and Average Order Size. The results are displayed in a table with 13 columns. The top 10 rows are highlighted, showing products like 'Mountain-200 Black 38' and 'Mountain-200 Silver 42'.

Rank by Sales	Product	Category	Sub-Category	Model Name	Total Sales	Discount Amounts	Product Cost	Profit	Quantity Ordered	Number of Orders	Average Order Size
1	Mountain-200 Black 38	Bikes	Mountain Bikes	Mountain-200	\$1,105,726.66	\$5,558.47	\$2,823,382.00	\$282,344.66	2395	670	\$4,635.41
2	Mountain-200 Black 42	Bikes	Mountain Bikes	Mountain-200	\$2,646,352.67	\$4,573.04	\$2,404,311.52	\$242,041.15	2050	563	\$4,700.45
3	Mountain-200 Silver 38	Bikes	Mountain Bikes	Mountain-200	\$2,354,215.24	\$2,808.45	\$2,135,947.26	\$218,267.98	1796	498	\$4,777.34
4	Mountain-200 Silver 42	Bikes	Mountain Bikes	Mountain-200	\$2,181,044.29	\$2,813.68	\$1,978,967.15	\$202,477.14	1674	480	\$4,543.84
5	Mountain-200 Silver 46	Bikes	Mountain Bikes	Mountain-200	\$2,133,156.84	\$1,833.85	\$1,932,690.06	\$200,466.78	1636	474	\$4,500.33
6	Mountain-200 Black 46	Bikes	Mountain Bikes	Mountain-200	\$1,936,203.67	\$1,425.22	\$1,754,736.90	\$181,466.77	1491	439	\$4,410.49
7	Road-250 Black 44	Bikes	Road Bikes	Road-250	\$1,888,480.05	\$1,442.45	\$1,956,604.02	(\$68,123.97)	1371	434	\$4,351.34
8	Road-250 Black 48	Bikes	Road Bikes	Road-250	\$1,686,448.69	\$990.14	\$1,715,071.80	(\$28,623.11)	1200	414	\$4,001.09
9	Road-350-W Yellow 48	Bikes	Road Bikes	Road-350-W	\$1,380,253.88	\$13,452.28	\$1,594,688.80	(\$124,435.02)	1390	334	\$4,132.93
10	Touring-1000 Blue 60	Bikes	Touring Bikes	Touring-1000	\$1,370,784.22	\$7,565.85	\$1,441,925.58	(\$71,141.35)	973	292	\$4,684.47

What are the top 10 & bottom product subcategories by sales & profits for bike & accessories?

TOP 10

USE AdventureWorksDW2019;

WITH CTE_Sales AS (

SELECT Top 10

dpsc.EnglishProductSubcategoryName 'Product Subcategory Name',

dpc.EnglishProductCategoryName 'Product Category Name',

DENSE_RANK() OVER(ORDER BY SUM(SalesAmount) desc,SUM(SalesAmount - TotalProductCost)) 'Sales Rank',

SUM(SalesAmount) 'Sales',

SUM(SalesAmount - TotalProductCost) 'Profit'

FROM dbo.FactResellerSales frs JOIN DimProduct dp

ON frs.ProductKey = dp.ProductKey

JOIN DimProductSubcategory dpsc

ON dp.ProductSubcategoryKey = dpsc.ProductSubcategoryKey

JOIN DimProductCategory dpc

ON dpsc.ProductCategoryKey = dpc.ProductCategoryKey

and dpc.EnglishProductCategoryName IN ('Bikes','Accessories')

group by dpc.EnglishProductCategoryName, dpsc.EnglishProductSubcategoryName)

SELECT

```

[Product Category Name],
[Product Subcategory Name],
[Sales Rank],
FORMAT(Sales, 'C', 'en-us') 'Total Sales',
FORMAT(Profit, 'C', 'en-us') 'Product Cost'
FROM CTE_Sales

```

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'AdventureWorksDW2019' database selected. The right pane shows a query window with the following SQL code:

```

USE AdventureWorksDW2019;
WITH CTE_Sales AS (
    SELECT Top 10
        dpsc.EnglishProductSubcategoryName 'Product Subcategory Name',
        dpc.EnglishProductCategoryName 'Product Category Name',
        DENSE_RANK() OVER(ORDER BY SUM(SalesAmount), SUM(SalesAmount - TotalProductCost) ) 'Sales Rank',
        SUM(SalesAmount) 'Sales',
        SUM(SalesAmount - TotalProductCost) 'Profit'
    FROM dbo.FactResellerSales frs JOIN DimProduct dp
    ON frs.ProductKey = dp.ProductKey
    JOIN DimProductSubcategory dpsc
    ON dp.ProductSubcategoryKey = dpsc.ProductSubcategoryKey
    JOIN DimProductCategory dpc
    ON dpsc.ProductCategoryKey = dpc.ProductCategoryKey
    and dpc.EnglishProductCategoryName IN ('Bikes', 'Accessories')
    group by dpc.EnglishProductCategoryName, dpsc.EnglishProductSubcategoryName
)
SELECT
    [Product Category Name],
    [Product Subcategory Name],
    [Sales Rank],
    FORMAT(Sales, 'C', 'en-us') 'Total Sales',
    FORMAT(Profit, 'C', 'en-us') 'Product Cost'
FROM CTE_Sales

```

Below the query window, the 'Results' pane displays the following data:

Product Category Name	Product Subcategory Name	Sales Rank	Total Sales	Product Cost
Bikes	Road Bikes	1	\$29,358,206.96	\$1,172,396.95
Bikes	Mountain Bikes	2	\$26,492,684.38	\$1,419,292.04
Bikes	Touring Bikes	3	\$10,451,490.22	\$1,237,594.98
Accessories	Helmets	4	\$258,712.93	\$85,346.90
Accessories	Bike Racks	5	\$197,736.16	\$70,366.72
Accessories	Hydration Packs	6	\$65,518.75	\$23,810.29
Accessories	Locks	7	\$16,225.22	\$5,025.85
Accessories	Pumps	8	\$13,514.69	\$4,196.82
Accessories	Cleaners	9	\$11,188.37	\$4,019.75
Accessories	Bottles and Cages	10	\$7,476.60	\$2,678.35

BOTTOM 10

```

USE AdventureWorksDW2019;
WITH CTE_Sales AS (
    SELECT Top 10
        dpsc.EnglishProductSubcategoryName 'Product Subcategory Name',
        dpc.EnglishProductCategoryName 'Product Category Name',
        DENSE_RANK() OVER(ORDER BY SUM(SalesAmount), SUM(SalesAmount - TotalProductCost) ) 'Sales Rank',
        SUM(SalesAmount) 'Sales',
        SUM(SalesAmount - TotalProductCost) 'Profit'
    FROM dbo.FactResellerSales frs JOIN DimProduct dp
    ON frs.ProductKey = dp.ProductKey
    JOIN DimProductSubcategory dpsc
    ON dp.ProductSubcategoryKey = dpsc.ProductSubcategoryKey
    JOIN DimProductCategory dpc
    ON dpsc.ProductCategoryKey = dpc.ProductCategoryKey
    and dpc.EnglishProductCategoryName IN ('Bikes', 'Accessories')
    group by dpc.EnglishProductCategoryName, dpsc.EnglishProductSubcategoryName
)

```

```

SELECT
[Product Category Name],
[Product Subcategory Name],
[Sales Rank],
FORMAT(Sales, 'C', 'en-us') 'Total Sales',
FORMAT(Profit, 'C', 'en-us') 'Product Cost'
FROM CTE_Sales

```

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor displays a SQL query that uses a Common Table Expression (CTE) named CTE_Sales. The query selects the top 10 products based on sales rank, displaying columns for Product Category Name, Product Subcategory Name, Sales Rank, Total Sales, and Product Cost. The results pane shows the output of the query, listing 10 products with their respective sales and costs.

Product Category Name	Product Subcategory Name	Sales Rank	Total Sales	Product Cost
Accessories	Tires and Tubes	1	\$925.21	\$347.93
Accessories	Bottles and Cages	2	\$7,476.60	\$2,678.35
Accessories	Cleaners	3	\$11,188.37	\$4,019.75
Accessories	Pumps	4	\$13,514.69	\$4,196.82
Accessories	Locks	5	\$16,225.22	\$5,025.85
Accessories	Hydration Packs	6	\$65,518.75	\$23,810.29
Accessories	Bike Racks	7	\$197,736.16	\$70,366.72
Accessories	Helmets	8	\$258,712.93	\$85,344.90
Bikes	Touring Bikes	9	\$10,451,490.22	\$1,237,594.98
Bikes	Mountain Bikes	10	\$26,492,894.38	\$1,419,292.04

What are the sales, discount amounts, product costs, profit, quantity ordered, number of orders & average order size (sales amount) of reseller sales by reseller hierarchy (business type, reseller name)?

```

use AdventureWorksDW2019;
WITH CTE_ResellerSales AS(
select
dr.ResellerName 'Reseller Name',
dr.BusinessType 'Business Type',
SUM(frs.SalesAmount) 'Sales',
SUM(DiscountAmount) 'Discount Amounts',
SUM(TotalProductCost) 'Product Cost',
SUM(SalesAmount - TotalProductCost) 'Profit',
SUM(OrderQuantity) 'Quantity Ordered',
COUNT(SalesOrderNumber) 'Number of Orders',
AVG(SalesAmount) 'Average Order Size'

```

```

from
dbo.FactResellerSales frs join dbo.DimReseller dr
ON frs.ResellerKey = dr.ResellerKey
group by dr.ResellerName, dr.BusinessType
)
SELECT
[Reseller Name],
[Business Type],
FORMAT(Sales, 'C', 'en-us') 'Total Sales',
FORMAT([Discount Amounts], 'C', 'en-us') 'Discount Amounts',
FORMAT([Product Cost], 'C', 'en-us') 'Product Cost',
FORMAT(Profit, 'C', 'en-us') Profit,
[Quantity Ordered],
[Number of Orders],
FORMAT([Average Order Size], 'C', 'en-us') 'Average Order Size'
FROM CTE_ResellerSales
ORDER BY Sales DESC

```

SQLQuery3.sql - DESKTOP-STJHSF4:AdventureWorksDW2019 (DESKTOP-STJHSF4\gupta (79)) - Microsoft SQL Server Management Studio

Object Explorer: AdventureWorksDW2019 -> FactResellerSales

Query: SQLQuery3.sql - DESKTOP-STJHSF4\gupta (79)

```

SELECT
    SUM(QuantityOrdered) 'Quantity Ordered',
    COUNT(SalesOrderNumber) 'Number of Orders',
    AVG(SalesAmount) 'Average Order Size'
FROM
    dbo.FactResellerSales frs join dbo.DimReseller dr
ON frs.ResellerKey = dr.ResellerKey
group by dr.ResellerName, dr.BusinessType
)
SELECT
    [Reseller Name],
    [Business Type],
    FORMAT(Sales, 'C', 'en-us') 'Total Sales',
    FORMAT([Discount Amounts], 'C', 'en-us') 'Discount Amounts',
    FORMAT([Product Cost], 'C', 'en-us') 'Product Cost',
    FORMAT(Profit, 'C', 'en-us') Profit,
    [Quantity Ordered],
    [Number of Orders],
    FORMAT([Average Order Size], 'C', 'en-us') 'Average Order Size'
FROM CTE_ResellerSales
ORDER BY Sales DESC

```

Results (635 rows):

Reseller Name	Business Type	Total Sales	Discount Amounts	Product Cost	Profit	Quantity Ordered	Number of Orders	Average Order Size
1 Bikes and Gears	Value Added Reseller	\$877,107.19	\$5,169.30	\$814,369.56	\$62,737.64	1558	298	\$2,943.31
2 Excellent Riding Supplies	Value Added Reseller	\$853,849.18	\$1.46	\$873,278.16	(\$19,428.98)	1322	366	\$2,332.92
3 Vigorous Exercise Company	Warehouse	\$841,908.77	\$18,238.74	\$839,778.52	\$2,130.25	2737	530	\$1,588.51
4 Totes & Baskets Company	Value Added Reseller	\$816,755.58	\$372.23	\$835,395.10	(\$18,639.52)	1736	436	\$1,873.29
5 Retail Mail	Warehouse	\$799,277.90	\$4,491.96	\$822,271.31	(\$22,993.42)	1931	451	\$1,772.23
6 Corner Bicycle Supply	Value Added Reseller	\$787,773.04	\$35.79	\$801,555.55	(\$13,782.51)	1708	429	\$1,836.30
7 Outdoor Equipment Store	Warehouse	\$746,317.53	\$5,315.33	\$774,236.00	(\$27,918.47)	1688	332	\$2,247.94
8 Thorough Parts and Repair Services	Value Added Reseller	\$740,985.83	\$377.38	\$765,498.71	(\$24,512.87)	1344	358	\$2,069.79
9 Health Spa, Limited	Warehouse	\$730,798.71	\$4,436.99	\$757,131.53	(\$26,332.82)	1408	352	\$2,076.13
10 Fitness Toy Store	Warehouse	\$727,272.65	\$4,364.21	\$754,259.02	(\$26,986.37)	1344	336	\$2,164.50
11 Latest Sports Equipment	Value Added Reseller	\$724,299.64	\$1,639.54	\$660,608.16	\$63,691.48	1578	332	\$2,181.63
12 First Bike Store	Value Added Reseller	\$711,864.76	\$431.02	\$733,920.22	(\$22,055.46)	1155	312	\$2,281.62
13 Great Bikes	Value Added Reseller	\$700,803.79	\$3,513.46	\$643,778.66	\$57,025.13	1382	290	\$2,416.56
14 Farthestmost Bike Shop	Value Added Reseller	\$693,502.49	\$642.99	\$705,159.99	(\$11,657.51)	1488	422	\$1,643.37
15 Field Trip Store	Value Added Reseller	\$671,618.03	\$5,117.35	\$617,600.76	\$54,017.27	1946	357	\$1,881.28
16 Metropolitan Equipment	Warehouse	\$643,745.90	\$4,366.25	\$666,010.65	(\$22,264.75)	2129	405	\$1,588.50
17 Eastside Department Store	Warehouse	\$638,226.47	\$9,336.47	\$670,810.78	(\$34,584.31)	2554	401	\$1,588.60
18 The Great Store	Value Added Reseller	\$618,618.13	\$382.88	\$643,085.38	\$64,830.77	1576	303	\$1,574.06

What resellers are in the top 10 by sales & profit?

use AdventureWorksDW2019;
WITH CTE_ResellerSales AS(
select TOP 10
dr.ResellerName 'Reseller Name',

```

dr.BusinessType 'Business Type',
SUM(frs.SalesAmount) 'Sales',
SUM(DiscountAmount) 'Discount Amounts',
SUM(TotalProductCost) 'Product Cost',
SUM(SalesAmount - TotalProductCost) 'Profit',
SUM(OrderQuantity) 'Quantity Ordered',
COUNT(SalesOrderNumber) 'Number of Orders',
AVG(SalesAmount) 'Average Order Size'
from
dbo.FactResellerSales frs join dbo.DimReseller dr
ON frs.ResellerKey = dr.ResellerKey
group by dr.ResellerName, dr.BusinessType
Order By Profit, Sales DESC
)
SELECT
[Reseller Name],
[Business Type],
FORMAT(Sales, 'C', 'en-us') 'Total Sales',
FORMAT([Discount Amounts], 'C', 'en-us') 'Discount Amounts',
FORMAT([Product Cost], 'C', 'en-us') 'Product Cost',
FORMAT(Profit, 'C', 'en-us') 'Profit',
[Quantity Ordered],
[Number of Orders],
FORMAT([Average Order Size], 'C', 'en-us') 'Average Order Size'
FROM CTE_ResellerSales

```

SQLQuery3.sql - DESKTOP-STJH5F4:AdventureWorksDW2019 (DESKTOP-STJH5F4:gupta) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

AdventureWorksDW2019

Object Explorer

dbo.FactCallCenter
dbo.FactCurrencyRate
dbo.FactFinance
dbo.FactInternetSales
dbo.FactInternetSalesReason
dbo.FactProductInventory
dbo.FactResellerSales
Columns

- ProductKey (FK, int, not null)
- OrderDateKey (FK, int, not null)
- DueDateKey (FK, int, not null)
- ShipDateKey (FK, int, not null)
- ResellerKey (FK, int, not null)
- EmployeeKey (FK, int, not null)
- PromotionKey (FK, int, not null)
- CurrencyKey (FK, int, not null)
- SalesTerritoryKey (FK, int, not null)
- SalesOrderNumber (PK, nvarchar(20), not null)
- SalesOrderLineNumber (PK, tinyint, not null)
- RevisionNumber (tinyint, null)
- OrderQuantity (smallint, null)
- UnitPrice (money, null)
- ExtendedAmount (money, null)
- UnitPriceDiscountPct (float, null)
- DiscountAmount (float, null)
- ProductStandardCost (money, null)
- TotalProductCost (money, null)
- SalesAmount (money, null)
- TaxAmt (money, null)
- Freight (money, null)
- CarrierTrackingNumber (nvarchar(25), null)
- CustomerPONumber (nvarchar(25), null)
- OrderDate (datetime, null)
- DueDate (datetime, null)
- ShipDate (datetime, null)

ResellerSales_QUE_TJH5F4gupta (62/1)*

```

WITH CTE_ResellerSales AS(
select TOP 10
dr.ResellerName 'Reseller Name',
dr.BusinessType 'Business Type',
SUM(frs.SalesAmount) 'Sales',
SUM(DiscountAmount) 'Discount Amounts',
SUM(TotalProductCost) 'Product Cost',
SUM(SalesAmount - TotalProductCost) 'Profit',
SUM(OrderQuantity) 'Quantity Ordered',
COUNT(SalesOrderNumber) 'Number of Orders',
AVG(SalesAmount) 'Average Order Size'
from
dbo.FactResellerSales frs join dbo.DimReseller dr
ON frs.ResellerKey = dr.ResellerKey
group by dr.ResellerName, dr.BusinessType
Order By Profit, Sales DESC
)
SELECT
[Reseller Name],
[Business Type],
FORMAT(Sales, 'C', 'en-us') 'Total Sales',
FORMAT([Discount Amounts], 'C', 'en-us') 'Discount Amounts',
FORMAT([Product Cost], 'C', 'en-us') 'Product Cost',
FORMAT(Profit, 'C', 'en-us') 'Profit',
[Quantity Ordered], [Number of Orders],
FORMAT([Average Order Size], 'C', 'en-us') 'Average Order Size' FROM CTE_ResellerSales

```

89 %

Results Messages

	Reseller Name	Business Type	Total Sales	Discount Amounts	Product Cost	Profit	Quantity Ordered	Number of Orders	Average Order Size
1	Westside Plaza	Warehouse	\$534,956.28	\$18,970.30	\$608,271.83	(\$73,315.55)	1363	203	\$2,635.25
2	Perfect Toys	Warehouse	\$391,040.59	\$10,681.80	\$438,454.97	(\$47,414.38)	578	123	\$3,179.19
3	Camping and Sports Store	Warehouse	\$343,349.78	\$10,419.68	\$389,115.31	(\$45,765.52)	533	122	\$2,814.34
4	Rally Master Company Inc	Warehouse	\$355,141.98	\$10,388.02	\$400,461.36	(\$45,319.38)	507	110	\$3,228.56
5	Metro Metals Co.	Warehouse	\$299,885.29	\$9,851.98	\$341,719.29	(\$41,754.09)	465	120	\$2,499.88
6	Downtown Hotel	Warehouse	\$243,014.55	\$11,851.84	\$281,229.09	(\$38,214.54)	194	54	\$4,500.27
7	Eastside Department Store	Warehouse	\$636,226.47	\$9,336.47	\$670,810.78	(\$34,584.31)	2554	401	\$1,586.60
8	Roadway Bicycle Supply	Value Added Reseller	\$436,921.66	\$6,782.88	\$470,646.41	(\$33,724.76)	766	145	\$3,013.25
9	Extended Bike Sales	Warehouse	\$281,522.33	\$10,659.66	\$292,672.35	(\$11,150.02)	263	78	\$3,352.85
10	Action Bicycle Specialists	Warehouse	\$321,752.84	\$6,790.33	\$351,051.64	(\$29,298.81)	1090	179	\$1,797.90

Query executed successfully.

DESKTOP-STJH5F4 (15.0 RTM) | DESKTOP-STJH5F4:gupta ... | AdventureWorksDW2019 | 00:00:00 | 10 rows

Ready | Ln 26 | Col 40 | Ch 40 | INS

6:30 PM
3/11/2021

What are some of the key attributes of resellers ?

```
/*  
The Resellers have the Name and the Business type for which we found out Number of Employees,  
Discount Amount, Product Cost, Profit, Total Sales etc., on Yearly basis. So here we are finding the top 10  
Resellers for the years from 2010 to 2013.  
*/  
use AdventureWorksDW2019;  
WITH CTE_ResellerSales AS(  
select  
DENSE_RANK() OVER (PARTITION BY YEAR(frs.OrderDate) ORDER BY SUM(frs.SalesAmount) DESC) 'Sales  
Rank',  
YEAR(frs.OrderDate) 'Sales Year',  
dr.ResellerName 'Reseller Name',  
dr.BusinessType 'Business Type',  
SUM(dr.NumberEmployees) 'Number Of Employees',  
SUM(DiscountAmount) 'Discount Amounts',  
SUM(TotalProductCost) 'Product Cost',  
SUM(SalesAmount - TotalProductCost) 'Profit',  
SUM(OrderQuantity) 'Quantity Ordered',  
COUNT(SalesOrderNumber) 'Number of Orders',  
AVG(SalesAmount) 'Average Order Size',  
SUM(frs.SalesAmount) 'Total Sales'  
from  
dbo.FactResellerSales frs join dbo.DimReseller dr  
ON frs.ResellerKey = dr.ResellerKey  
group by dr.ResellerName, dr.BusinessType, YEAR(frs.OrderDate)  
)  
SELECT  
[Sales Rank],  
[Sales Year],  
[Reseller Name],  
[Business Type],  
[Number Of Employees],  
FORMAT([Total Sales], 'C', 'en-us') 'Total Sales',  
FORMAT([Discount Amounts], 'C', 'en-us') 'Discount Amounts',  
FORMAT([Product Cost], 'C', 'en-us') 'Product Cost',  
FORMAT([Profit], 'C', 'en-us') 'Profit',  
[Quantity Ordered], [Number of Orders],  
FORMAT([Average Order Size], 'C', 'en-us') 'Average Order Size'  
FROM CTE_ResellerSales  
WHERE [Sales Rank] between 1 and 10  
ORDER BY [Sales Year]
```


SQLQuery3.sql - DESKTOP-STJHSF4:AdventureWorksDW2019 (DESKTOP-STJHSF4\gupta) - Microsoft SQL Server Management Studio

Object Explorer

AdventureWorksDW2019

Columns

- ProductKey (FK, int, not null)
- OrderDateKey (FK, int, not null)
- DueDateKey (FK, int, not null)
- ShipDateKey (FK, int, not null)
- ResellerKey (FK, int, not null)
- EmployeeKey (FK, int, not null)
- PromotionKey (FK, int, not null)
- CurrencyKey (FK, int, not null)
- SalesTerritoryKey (FK, int, not null)
- SalesOrderNumber (PK, nvarchar(20), not null)
- SalesOrderLineNumber (PK, tinyint, not null)
- RevisionNumber (tinyint, null)
- OrderQuantity (smallint, null)
- UnitPrice (money, null)
- ExtendedAmount (money, null)
- UnitPriceDiscountPct (float, null)
- DiscountAmount (float, null)
- ProductStandardCost (money, null)
- TotalProductCost (money, null)
- SalesAmount (money, null)
- TaxAmt (money, null)
- Freight (money, null)
- CarrierTrackingNumber (nvarchar(25), null)
- CustomerPONumber (nvarchar(25), null)
- OrderDate (datetime, null)
- DueDate (datetime, null)
- ShipDate (datetime, null)

SQLQuery3.sql - DESKTOP-STJHSF4\gupta (79) *

```

use AdventureWorksDW2019;
WITH CTE_ResellerSales AS(
select
DENSE_RANK() OVER (PARTITION BY YEAR(frs.OrderDate) ORDER BY SUM(frs.SalesAmount) DESC) 'Sales Rank',
YEAR(frs.OrderDate) 'Sales Year',
dr.ResellerName 'Reseller Name',
dr.BusinessType 'Business Type',
SUM(dr.NumberEmployees) 'Number Of Employees',
SUM(DiscAmount) 'Discount Amounts',
SUM(TotalProductCost) 'Product Cost',
SUM(SalesAmount - TotalProductCost) 'Profit',
SUM(OrderQuantity) 'Quantity Ordered',
COUNT(SalesOrderNumber) 'Number of Orders',
AVG(SalesAmount) 'Average Order Size',
SUM(frs.SalesAmount) 'Total Sales'
from
dbo.FactResellerSales frs join DimReseller dr
ON frs.ResellerKey = dr.ResellerKey
group by dr.ResellerName, dr.BusinessType, YEAR(frs.OrderDate)
)
SELECT
[Sales Rank],
[Sales Year],
[Reseller Name],
[Business Type],
[Number Of Employees],
[Total Sales],
[Discount Amounts],
[Product Cost],
[Profit],
[Quantity Ordered],
[Number of Orders],
[Average Order Size]

```

Results Messages

Sales Rank	Sales Year	Reseller Name	Business Type	Number Of Employees	Total Sales	Discount Amounts	Product Cost	Profit	Quantity Ordered	Number of Orders	Average Order Size
3	2010	Bike Dealers Association	Warehouse	1120	\$38,510.90	\$0.00	\$38,542.09	(\$31.19)	98	28	\$1,375.39
4	2010	Retail Mail	Warehouse	2639	\$35,944.16	\$0.00	\$35,949.46	\$94.70	93	29	\$1,239.45
5	2010	Fitness Top Store	Warehouse	1764	\$33,907.37	\$0.00	\$33,868.36	\$129.01	66	21	\$1,618.92
6	2010	Original Bicycle Supply Company	Warehouse	645	\$32,726.48	\$0.00	\$30,212.19	\$2,514.29	38	15	\$2,181.77
7	2010	Health Spa, Limited	Warehouse	1012	\$28,832.53	\$0.00	\$28,793.52	\$39.01	54	22	\$1,310.57
8	2010	Capable Sales and Service	Value Added Reseller	24	\$24,432.61	\$0.00	\$22,910.88	\$1,521.73	14	8	\$3,054.08
9	2010	Juvenile Sports Equipment	Value Added Reseller	198	\$20,645.63	\$0.00	\$19,327.89	\$1,317.75	23	11	\$1,876.88
10	2010	Better Bike Shop	Value Added Reseller	228	\$20,965.62	\$0.00	\$19,258.04	\$1,707.58	26	12	\$1,713.80
11	2011	Tread Industries	Warehouse	6885	\$431,991.55	\$1,883.89	\$406,459.89	\$25,531.66	356	81	\$5,333.23
12	2011	Hardware Components	Warehouse	7735	\$408,483.45	\$577.16	\$381,079.22	\$27,404.23	431	85	\$4,805.69
13	2011	Golf and Cycle Store	Warehouse	7396	\$316,738.75	\$16,170.28	\$367,546.11	(\$50,807.36)	318	86	\$3,683.01
14	2011	eCommerce Bikes	Warehouse	4698	\$306,353.92	\$469.80	\$285,966.97	\$20,386.96	256	81	\$3,782.15
15	2011	Retail Mail	Warehouse	14014	\$303,068.51	\$2,813.58	\$311,678.24	(\$8,609.73)	724	154	\$1,967.96
16	2011	Vicarious Experience Components	Warehouse	5478	\$299,575.66	\$18,329.95	\$154,001.33	(\$53,566.67)	385	89	\$3,336.66

Query executed successfully.

DESKTOP-STJHSF4 (15.0 RTM) | DESKTOP-STJHSF4\gupta | AdventureWorksDW2019 | 00:00:00 | 40 rows

What are the sales, discount amounts, product costs, profit, quantity ordered, number of orders & average order size (sales amount) of reseller sales by Geo Hierarchy (Country, State/Province & City of Reseller)?

```

use AdventureWorksDW2019;
WITH CTE_GEOSales AS(
SELECT
dg.EnglishCountryRegionName 'Country',
dg.StateProvinceName 'State/Province',
dg.City 'City',
SUM(SalesAmount) 'Sales',
SUM(DiscountAmount) 'Discount Amount',
SUM(TotalProductCost) 'Product Cost',
SUM(SalesAmount - TotalProductCost) 'Profit',
SUM(OrderQuantity) 'Quantity Ordered',
COUNT(SalesOrderNumber) 'Number of Orders',
AVG(SalesAmount) 'Average Order Size'
FROM dbo.FactResellerSales frs JOIN DimGeography dg
ON frs.SalesTerritoryKey = dg.SalesTerritoryKey
GROUP BY dg.EnglishCountryRegionName , dg.StateProvinceName , dg.City
--ORDER BY Sales DESC
)
SELECT
Country, [State/Province], City,
FORMAT([Sales], 'C', 'en-us') 'Total Sales',

```



```

FORMAT([Discount Amount], 'C', 'en-us') 'Discount Amounts',
FORMAT([Product Cost], 'C', 'en-us') 'Product Cost',
FORMAT([Profit], 'C', 'en-us') 'Profit',
[Quantity Ordered], [Number of Orders],
FORMAT([Average Order Size], 'C', 'en-us') 'Average Order Size'
FROM CTE_GEOSales

```

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor displays a SQL query that calculates various metrics for reseller sales, grouped by country, state/province, and city. The results pane shows 18 rows of data for Australia, New South Wales, sorted by city. The metrics calculated are Total Sales, Discount Amounts, Product Cost, Profit, Quantity Ordered, Number of Orders, and Average Order Size.

Country	State/Province	City	Total Sales	Discount Amounts	Product Cost	Profit	Quantity Ordered	Number of Orders	Average Order Size
Australia	New South Wales	Alexandria	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Coffs Harbour	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Darlinghurst	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Goulburn	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Lane Cove	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Lavender Bay	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Malden	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Marrville	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Milsons Point	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Newcastle	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	North Ryde	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	North Sydney	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Port Macquarie	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Rhodes	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Silverwater	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Springwood	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	St Leonards	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73
Australia	New South Wales	Sydney	\$1,594,335.38	\$28,534.05	\$1,703,056.26	(\$108,720.88)	4948	1713	\$930.73

Who are the top salespeople?

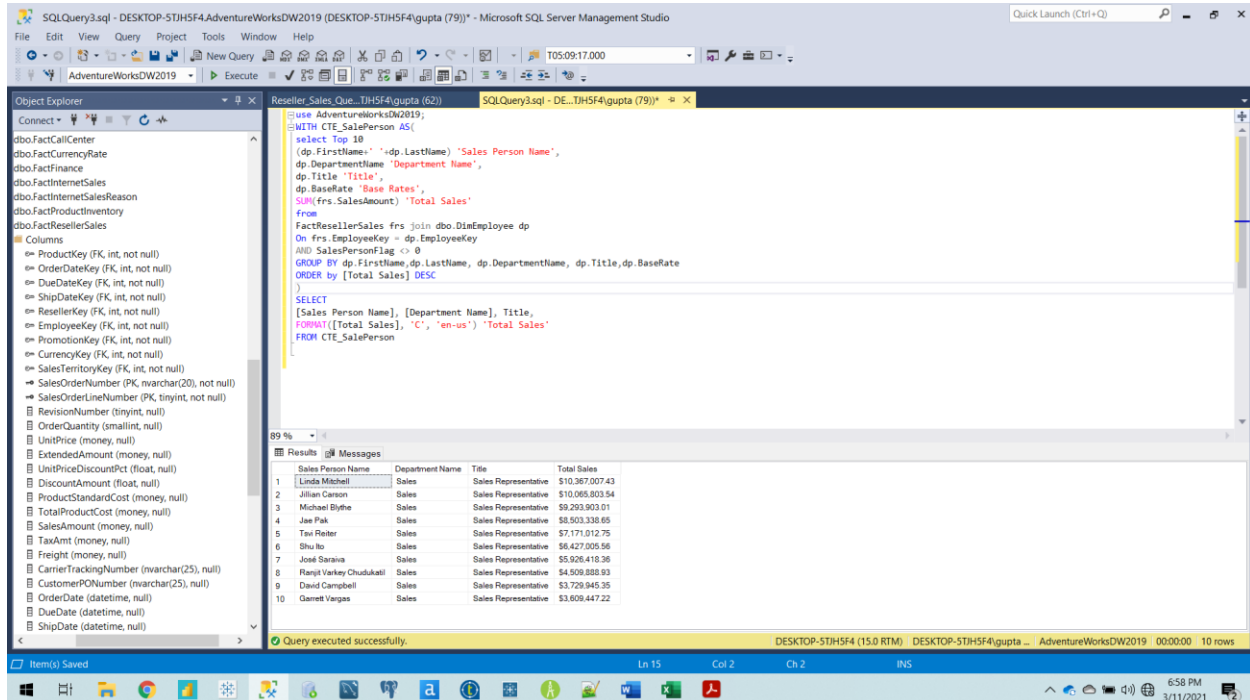
/* We are considering Top 10.*/

```

use AdventureWorksDW2019;
WITH CTE_SalePerson AS(
select Top 10
(dp.FirstName+' '+dp.LastName) 'Sales Person Name',
dp.DepartmentName 'Department Name',
dp.Title 'Title',
dp.BaseRate 'Base Rates',
SUM(frs.SalesAmount) 'Total Sales'
from
FactResellerSales frs join dbo.DimEmployee dp
On frs.EmployeeKey = dp.EmployeeKey
AND SalesPersonFlag <> 0
GROUP BY dp.FirstName,dp.LastName, dp.DepartmentName, dp.Title,dp.BaseRate
ORDER by [Total Sales] DESC

```

```
)
SELECT
[Sales Person Name], [Department Name], Title,
FORMAT([Total Sales], 'C', 'en-us') 'Total Sales'
FROM CTE_SalePerson
```



What are some of the key attributes of salespeople (that are tracked by AdventureWorks)?

*/*Some of the Key attributes of Sales People are – Sales, Profit, Discount Amount, Quantity by Employee Name, title and Department*/*

```
use AdventureWorksDW2019;
WITH CTE_SalePerson AS(
SELECT
(dp.FirstName+' '+dp.LastName) 'Sales Person Name',
dp.DepartmentName 'Department Name',
dp.Title 'Title',
SUM(frs.SalesAmount) 'Total Sales',
SUM(frs.SalesAmount) - SUM(frs.TotalProductCost) 'Profit',
SUM(frs.DiscountAmount) 'Discount Amount',
SUM(frs.OrderQuantity) 'Order Quantity',
COUNT(SalesOrderNumber) 'Number of Orders'
FROM FactResellerSales frs JOIN DimEmployee dp
ON frs.EmployeeKey = dp.EmployeeKey
AND dp.SalesPersonFlag = 1
```

```

GROUP BY (dp.FirstName+' '+dp.LastName), dp.DepartmentName, dp.Title
)
SELECT
[Sales Person Name],
[Department Name],
Title,
FORMAT([Total Sales], 'C', 'en-us') 'Total Sales',
FORMAT([Discount Amount], 'C', 'en-us') 'Discount Amounts',
FORMAT([Profit], 'C', 'en-us') 'Profit',
[Order Quantity],
[Number of Orders]
FROM CTE_SalePerson

```

Sales Person Name	Department Name	Title	Total Sales	Discount Amounts	Profit	Order Quantity	Number of Orders
Amy Albrecht	Sales	European Sales Manager	\$732,078.44	\$5,493.39	(\$5,215.18)	2009	584
David Campbell	Sales	Sales Representative	\$3,728,945.35	\$26,918.27	\$67,325.63	8172	2247
Garnett Vargan	Sales	Sales Representative	\$3,608,447.22	\$22,302.64	(\$19,970.81)	11544	3284
Jae Pak	Sales	Sales Representative	\$8,503,338.65	\$38,475.67	\$233,727.94	28231	6738
Jillian Carson	Sales	Sales Representative	\$10,065,803.54	\$28,237.24	\$164,535.61	27051	7825
Jose Saravia	Sales	Sales Representative	\$5,926,418.36	\$38,103.26	\$26,707.98	15220	4437
Linda Mitchell	Sales	Sales Representative	\$10,367,007.43	\$77,618.37	\$172,016.12	27229	7107
Lynn Tsofan	Sales	Sales Representative	\$1,421,810.93	\$22,751.48	(\$57,954.44)	4123	1468
Michael Blythe	Sales	Sales Representative	\$9,293,903.01	\$30,234.16	\$122,069.42	23058	7069
Pamela Ansman-Wolfe	Sales	Sales Representative	\$3,325,102.60	\$14,611.03	\$125,116.02	7360	2064
Rachel Valdez	Sales	Sales Representative	\$1,790,640.23	\$27,263.92	(\$95,870.78)	6898	1721
Ranjit Varkey Chudakoti	Sales	Sales Representative	\$4,509,888.93	\$39,093.56	(\$37,815.26)	14085	3419

What has been the impact of sales promotions?

/*

Promotions are divided by their Categories for which we are showing the Sales Trends, Ordered by Years. Trends shows the increase, decrease or no change in the sale considering the leading sales. Also, if the data is unavailable for the preceding/leading sale then the trend value set as 'unavailable'.

*/

```

WITH CTE_Promotion AS
(
select
dp.EnglishPromotionName 'Promotion Name',

```

```

dp.EnglishPromotionType 'Promotion Type',
dp.EnglishPromotionCategory 'Promotion Category',
SUM(frs.SalesAmount) 'Sales',
LEAD(SUM(frs.SalesAmount),1) OVER (Partition by dp.EnglishPromotionCategory ORDER BY
DATEPART(year, frs.OrderDate)) 'Lead Sales',
DATEPART(year, frs.OrderDate) as 'Years'
from FactResellerSales frs JOIN DimPromotion dp
ON frs.PromotionKey = dp.PromotionKey
group by
dp.EnglishPromotionName ,
dp.EnglishPromotionType,
dp.EnglishPromotionCategory,
DATEPART(year, frs.OrderDate)
)
SELECT
[Promotion Category],[Promotion Name],[Promotion Type],Years,
FORMAT([Sales], 'C', 'en-us') 'Total Sales',
FORMAT([Lead Sales], 'C', 'en-us') 'Lead Sales',
CASE
WHEN [Lead Sales] > [Sales] THEN 'Increase'
WHEN [Lead Sales] = [Sales] THEN 'No Change'
WHEN [Lead Sales] < [Sales] THEN 'Decrease'
else 'Unavailable'
END AS TRENDS
FROM CTE_Promotion
ORDER BY [Promotion Category]

```

SQLQuery4.sql - DESKTOP-STJH5F4:AdventureWorksDW2019 (DESKTOP-STJH5F4\gupta (60)) - Microsoft SQL Server Management Studio

Quick Launch (Ctrl+Q)

File Edit View Query Project Tools Window Help

AdventureWorksDW2019 Execute

Object Explorer

Connect

dbo.FactCallCenter
dbo.FactCurrencyRate
dbo.FactFinance
dbo.FactInternetSales
dbo.FactInternetSalesReason
dbo.FactProductInventory
dbo.FactResellerSales
Columns
ProductKey (FK, int, not null)
OrderDateKey (FK, int, not null)
DueDateKey (FK, int, not null)
ShipDateKey (FK, int, not null)
ResellerKey (FK, int, not null)
EmployeeKey (FK, int, not null)
PromotionKey (FK, int, not null)
CurrencyKey (FK, int, not null)
SalesTerritoryKey (FK, int, not null)
SalesOrderNumber (PK, nvarchar(20), not null)
SalesOrderLineNumber (PK, tinyint, not null)
RevisionNumber (tinyint, null)
OrderQuantity (smallint, null)
UnitPrice (money, null)
ExtendedAmount (money, null)
UnitPriceDiscountPct (float, null)
DiscountAmount (float, null)
ProductStandardCost (money, null)
TotalProductCost (money, null)
SalesAmount (money, null)
TaxAmt (money, null)
Freight (money, null)
CarrierTrackingNumber (nvarchar(25), null)
CustomerPONumber (nvarchar(25), null)
OrderDate (datetime, null)
DueDate (datetime, null)
ShipDate (datetime, null)

SQLQuery4.sql - DESKTOP-STJH5F4\gupta (60) Reseller_Sales_Queue..._TIH5F4\gupta (62)

```

--USE AdventureWorksDW2019;

WITH CTE_SalesPeople AS
(
select
dp.EnglishPromotionName 'Promotion Name',
dp.EnglishPromotionType 'Promotion Type',
dp.EnglishPromotionCategory 'Promotion Category',
SUM(frs.SalesAmount) 'Sales',
LEAD(SUM(frs.SalesAmount),1) OVER (Partition by dp.EnglishPromotionCategory ORDER BY DATEPART(year, frs.OrderDate)) 'Lead Sales',
DATEPART(year, frs.OrderDate) as 'Years'
from FactResellerSales frs JOIN DimPromotion dp
ON frs.PromotionKey = dp.PromotionKey
group by
dp.EnglishPromotionName ,
dp.EnglishPromotionType,
dp.EnglishPromotionCategory,
DATEPART(year, frs.OrderDate)
)

```

100 %

Results Messages

	Promotion Category	Promotion Name	Promotion Type	Years	Total Sales	Lead Sales	TRENDS
1	No Discount	No Discount	No Discount	2010	\$489,328.50	\$17,309,523.16	Increase
2	No Discount	No Discount	No Discount	2011	\$17,389,523.16	\$26,602,155.96	Increase
3	No Discount	No Discount	No Discount	2012	\$26,602,155.96	\$30,546,900.26	Increase
4	No Discount	No Discount	No Discount	2013	\$30,546,900.26	NULL	Unavailable
5	Reseller	Mountain-100 Clearance Sale	Discontinued Product	2011	\$250,927.70	\$22,197.77	Decrease
6	Reseller	Road-650 Overstock	Excess Inventory	2011	\$22,197.77	\$7,448.83	Decrease
7	Reseller	Sport Helmet Discount-2002	Seasonal Discount	2011	\$7,448.83	\$456,652.35	Increase
8	Reseller	Volume Discount 11 to 14	Volume Discount	2011	\$456,652.35	\$61,958.48	Decrease
9	Reseller	Volume Discount 15 to 24	Volume Discount	2011	\$61,958.48	\$4,094.44	Decrease
10	Reseller	Volume Discount 25 to 40	Volume Discount	2011	\$4,094.44	\$27,788.32	Increase
11	Reseller	Road-650 Overstock	Excess Inventory	2012	\$27,788.32	\$9,100.90	Decrease
12	Reseller	Sport Helmet Discount-2003	Seasonal Discount	2012	\$9,100.90	\$133,507.92	Increase
13	Reseller	Touring-1000 Promotion	New Product	2012	\$133,507.92	\$95,974.72	Decrease
14	Reseller	Touring-3000 Promotion	New Product	2012	\$95,974.72	\$956,113.38	Increase
15	Reseller	Volume Discount 11 to 14	Volume Discount	2012	\$956,113.38	\$350,852.61	Decrease
16	Reseller	Volume Discount 15 to 24	Volume Discount	2012	\$350,852.61	\$17,498.36	Decrease

Query executed successfully.

DESKTOP-STJH5F4 (15.0 RTM) DESKTOP-STJH5F4\gupta ... AdventureWorksDW2019 00:00:00 25 rows

Items Saved In 16 Col 26 Ch 26 INS

7:44 PM 3/11/2021

Are sales growing overall and what are the sales trends for specific product subcategories?

/*

Product Sub-Categories have the Sales Trends, Ordered by Years. Trends shows the increase , decrease or no change in the sale considering the leading sales. Also, if the data is unavailable for the preceding/leading sale then the trend value is set as 'unavailable'. So, the Sales are neither increasing or decreasing for any category. We can see the fluctuation of increment/decrement/no change.

*/

WITH CTE_SubCat AS

(

select

dp.sc.EnglishProductSubcategoryName 'Product SubCategory',

SUM(frs.SalesAmount) 'Total Sales',

LEAD(SUM(frs.SalesAmount)) OVER (PARTITION BY dp.sc.EnglishProductSubcategoryName ORDER BY

YEAR(frs.OrderDate)) 'Lead Sales',

YEAR(frs.OrderDate) 'Sale Year'

from

FactResellerSales frs join DimProduct dp

on frs.ProductKey = dp.ProductKey

join DimProductSubcategory dp.sc

on dp.sc.ProductSubcategoryKey = dp.ProductSubcategoryKey

Group BY frs.OrderDate, dp.sc.EnglishProductSubcategoryName

)

SELECT

[Product SubCategory], [Sale Year],

FORMAT([Total Sales], 'C', 'en-us') 'Total Sales',

FORMAT([Lead Sales], 'C', 'en-us') 'Lead Sales',

CASE

WHEN [Lead Sales] > [Total Sales] THEN 'Increase'

WHEN [Lead Sales] = [Total Sales] THEN 'No Change'

WHEN [Lead Sales] < [Total Sales] THEN 'Decrease'

else 'Unavailable'

END AS TRENDS

FROM CTE_SubCat

ORDER BY [Product SubCategory]

Reseller_Sales_Queries_Updated_03112021.sql - DESKTOP-STIH5F4:AdventureWorksDW2019 (DESKTOP-STIH5F4:gupta (62)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

AdventureWorksDW2019 Execute TOS:09:17:00

Object Explorer

- Connect
- dbo.FactCallCenter
- dbo.FactCurrencyRate
- dbo.FactFinance
- dbo.FactInternetSales
- dbo.FactInternetSalesReason
- dbo.FactProductInventory
- dbo.FactResellerSales
- Columns
 - ProductKey (FK, int, not null)
 - OrderDateKey (FK, int, not null)
 - DueDateKey (FK, int, not null)
 - ShipDateKey (FK, int, not null)
 - ResellerKey (FK, int, not null)
 - EmployeeKey (FK, int, not null)
 - PromotionKey (FK, int, not null)
 - CurrencyKey (FK, int, not null)
 - SalesTerritoryKey (FK, int, not null)
 - SalesOrderNumber (PK, nvarchar(20), not null)
 - SalesOrderLineNumber (PK, tinyint, not null)
 - RevisionNumber (tinyint, null)
 - OrderQuantity (smallint, null)
 - UnitPrice (money, null)
 - ExtendedAmount (money, null)
 - UnitPriceDiscountPct (float, null)
 - DiscountAmount (float, null)
 - ProductStandardCost (money, null)
 - TotalProductCost (money, null)
 - SalesAmount (money, null)
 - TaxAmt (money, null)
 - Freight (money, null)
 - CarrierTrackingNumber (nvarchar(25), null)
 - CustomerPONumber (nvarchar(25), null)
 - OrderDate (datetime, null)
 - DueDate (datetime, null)
 - ShipDate (datetime, null)

SQL Query 4.sql - DE...TIH5F4:gupta (62) x

```
WITH CTE_SubCat AS
(
    select
        dp.sc.EnglishProductSubcategoryName 'Product SubCategory',
        SUM(frs.SalesAmount) 'Total Sales',
        LEAD(SUM(frs.SalesAmount)) OVER (PARTITION BY dp.sc.EnglishProductSubcategoryName ORDER BY YEAR(frs.OrderDate)) 'Lead Sales',
        YEAR(frs.OrderDate) 'Sale Year'
    from
        FactResellerSales frs join DimProduct dp
        on frs.ProductKey = dp.ProductKey
        join DimProductSubcategory dp.sc
        on dp.sc.ProductSubcategoryKey = dp.ProductSubcategoryKey
    Group BY frs.OrderDate, dp.sc.EnglishProductSubcategoryName
)
SELECT
    [Product SubCategory], [Sale Year],
    FORMAT([Total Sales], 'C', 'en-us') 'Total Sales',
    FORMAT([Lead Sales], 'C', 'en-us') 'Lead Sales',
    CASE
```

100 % 4

Results Messages

	Product SubCategory	Sale Year	Total Sales	Lead Sales	TRENDS
1	Bib-Shorts	2011	\$17,240.36	\$8,477.06	Decrease
2	Bib-Shorts	2012	\$8,477.06	\$26,150.54	Increase
3	Bib-Shorts	2012	\$26,150.54	\$11,338.74	Decrease
4	Bib-Shorts	2012	\$11,338.74	\$13,299.55	Increase
5	Bib-Shorts	2012	\$13,299.55	\$6,533.27	Decrease
6	Bib-Shorts	2012	\$6,533.27	\$6,533.27	No Change
7	Bib-Shorts	2012	\$6,533.27	\$11,361.45	Increase
8	Bib-Shorts	2012	\$11,361.45	\$23,144.00	Increase
9	Bib-Shorts	2012	\$23,144.00	\$14,833.12	Decrease
10	Bib-Shorts	2012	\$14,833.12	\$17,138.81	Increase
11	Bib-Shorts	2012	\$17,138.81	\$10,659.53	Decrease
12	Bib-Shorts	2012	\$10,659.53	NULL	Unavailable
13	Bike Racks	2012	\$14,905.27	\$9,720.00	Decrease
14	Bike Racks	2013	\$9,720.00	\$13,187.18	Increase
15	Bike Racks	2013	\$13,187.18	\$12,412.49	Decrease
16	Bike Racks	2013	\$12,412.49	\$20,686.51	Increase
17	Bike Racks	2013	\$20,686.51	\$19,459.71	Increase

Query executed successfully.

DESKTOP-STIH5F4 (15.0 RTM) DESKTOP-STIH5F4:gupta ... AdventureWorksDW2019 00:00:00 619 rows

Ready Ln 337 Col 8 Ch 8 INS

7:58 PM 3/11/2021