Assignment1_OJAS_PHANSEKAR_001826636

2)

a) Total sales

a. Using SalesOrderHeader

SQL Query:

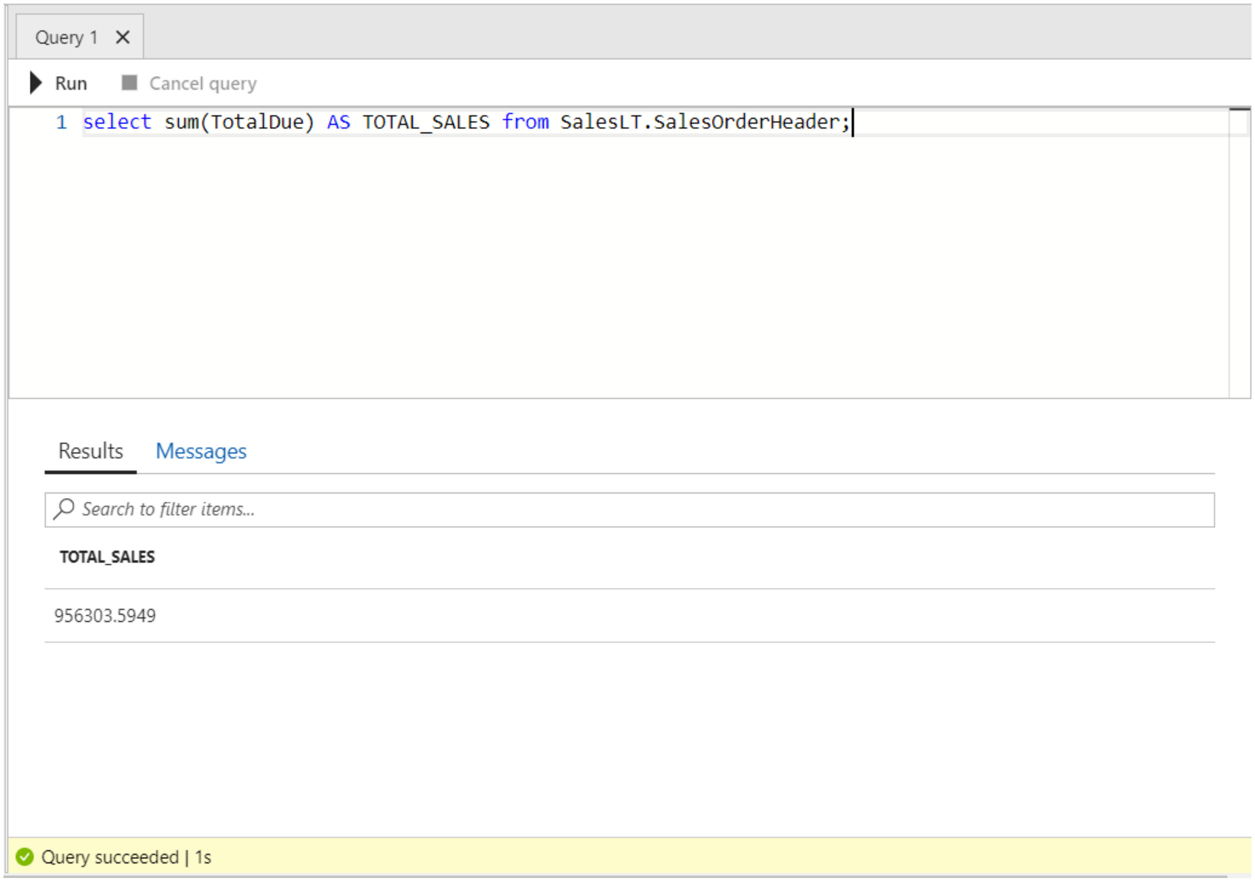
```sql
select sum(TotalDue) AS TOTAL_SALES from SalesLT.SalesOrderHeader;
```

Input Tables: `SalesLT.SalesOrderHeader`

Input Columns : TotalDue

Output Columns : TOTAL_SALES

Total Number of Rows in results : 1



```sql
select sum(TotalDue) AS TOTAL_SALES from SalesLT.SalesOrderHeader;
```

TOTAL_SALES
956303.5949

Query succeeded | 1s

a)b. Using SalesOrderDetail

SQL Query:

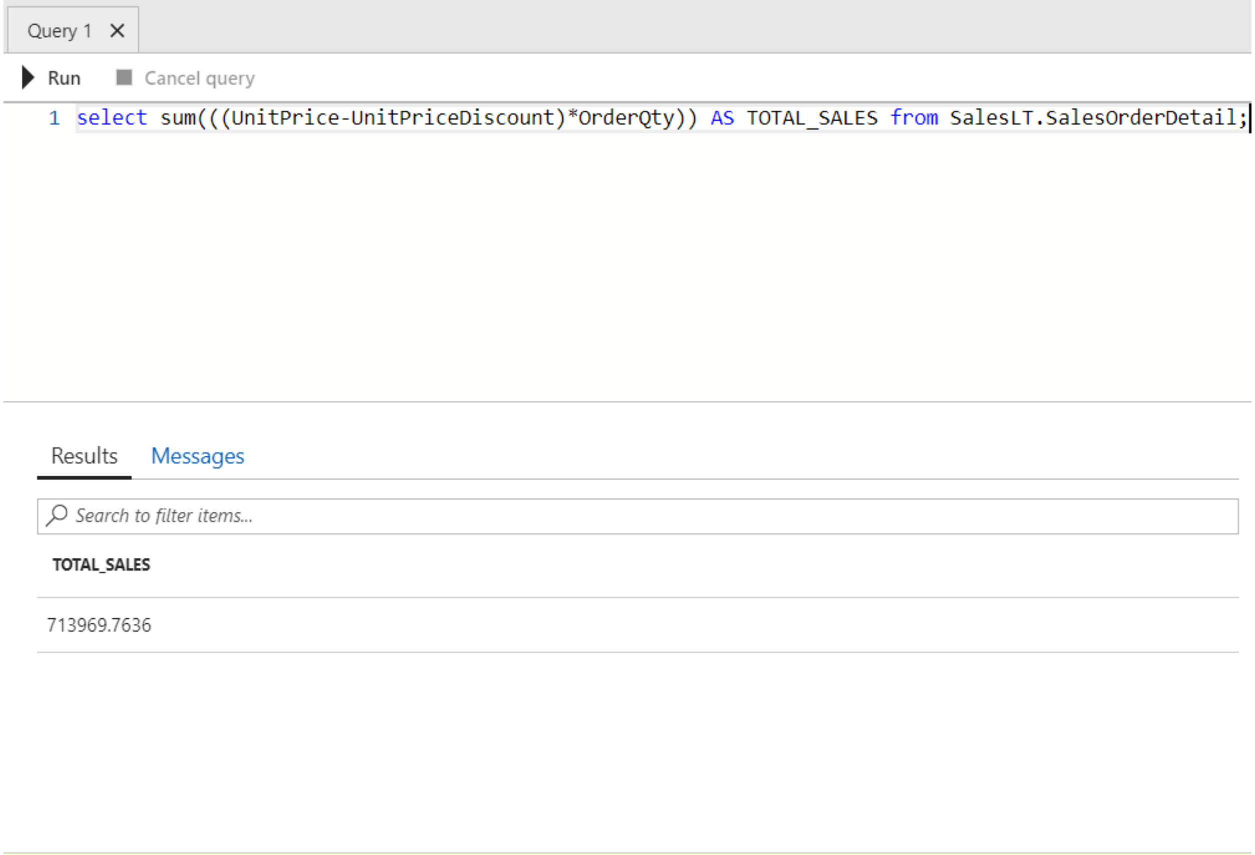
```sql
select sum(((UnitPrice-UnitPriceDiscount)*OrderQty)) AS TOTAL_SALES
from SalesLT.SalesOrderDetail;
```

Input Tables: `SalesLT.SalesOrderDetail`

Input Columns : UnitPrice, UnitPriceDiscount, OrderQty

Output Columns : TOTAL_SALES

Total Number of Rows in results : 1



```
select sum(((UnitPrice-UnitPriceDiscount)*OrderQty)) AS TOTAL_SALES from SalesLT.SalesOrderDetail;
```

TOTAL_SALES
713969.7636

b) Total sales by country – ranked/sorted (highest to lowest)

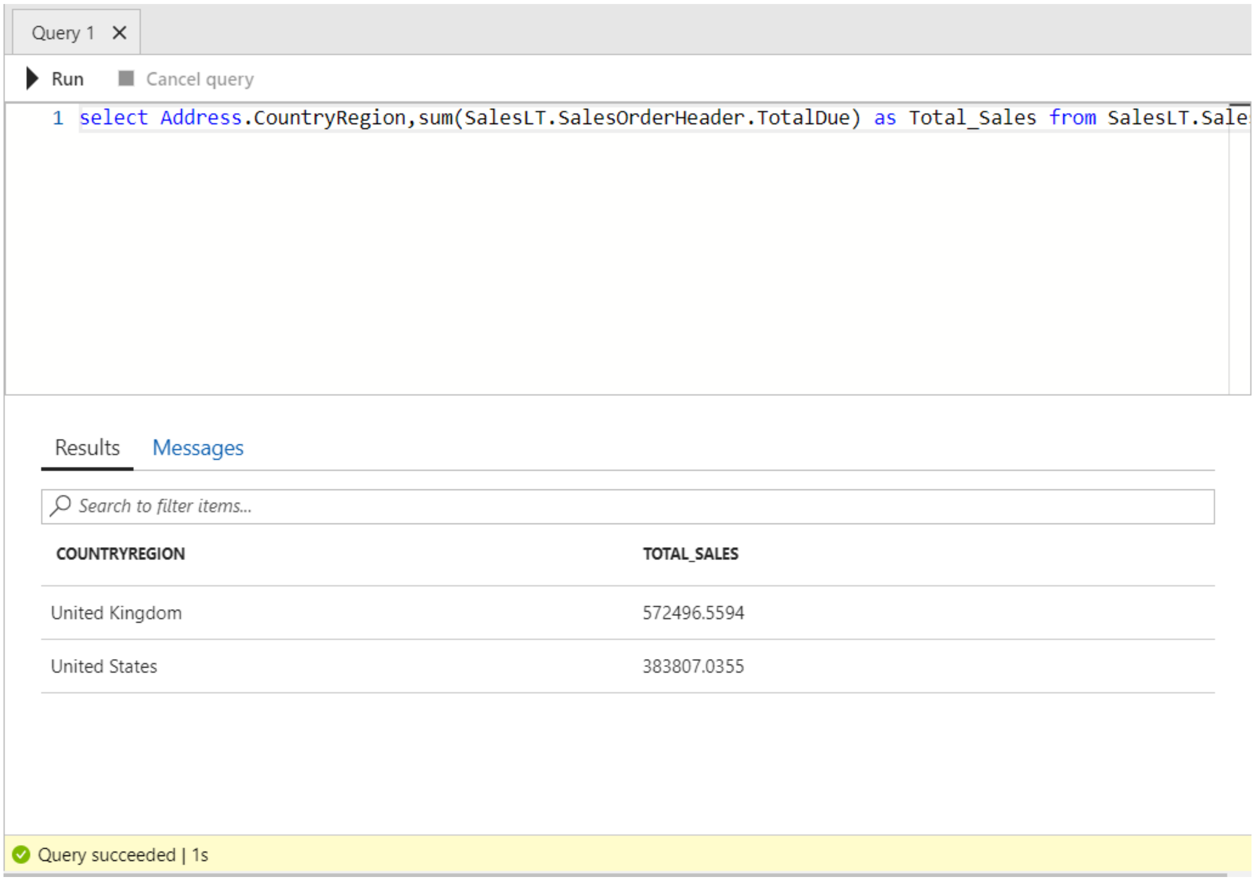
SQL Query: select Address.CountryRegion,sum(SalesLT.SalesOrderHeader.TotalDue) as Total_Sales from SalesLT.SalesOrderHeader INNER JOIN SalesLT.Customer on SalesLT.SalesOrderHeader.CustomerID = SalesLT.Customer.CustomerID INNER JOIN SalesLT.CustomerAddress ON SalesLT.Customer.CustomerID = SalesLT.CustomerAddress.CustomerID INNER JOIN SalesLT.Address on SalesLT.CustomerAddress.AddressID = SalesLT.Address.AddressID GROUP BY SalesLT.Address.CountryRegion ORDER BY Total_Sales Desc;

Input Tables: SalesLT.SalesOrderHeader, SalesLT.Customer, SalesLT.CustomerAddress, SalesLT.Address,

Input Columns : Address.CountryRegion, SalesLT.SalesOrderHeader.TotalDue, SalesLT.SalesOrderHeader.CustomerID, SalesLT.Customer.CustomerID, SalesLT.CustomerAddress.CustomerID, SalesLT.CustomerAddress.AddressID, SalesLT.Address.AddressID

Output Columns : COUNTRYREGION, TOTAL_SALES

Total Number of Rows in results : 2



```
select Address.CountryRegion,sum(SalesLT.SalesOrderHeader.TotalDue) as Total_Sales from SalesLT.Sale
```

COUNTRYREGION	TOTAL_SALES
United Kingdom	572496.5594
United States	383807.0355

c) Total sales by city & country – ranked/sorted (highest to lowest)

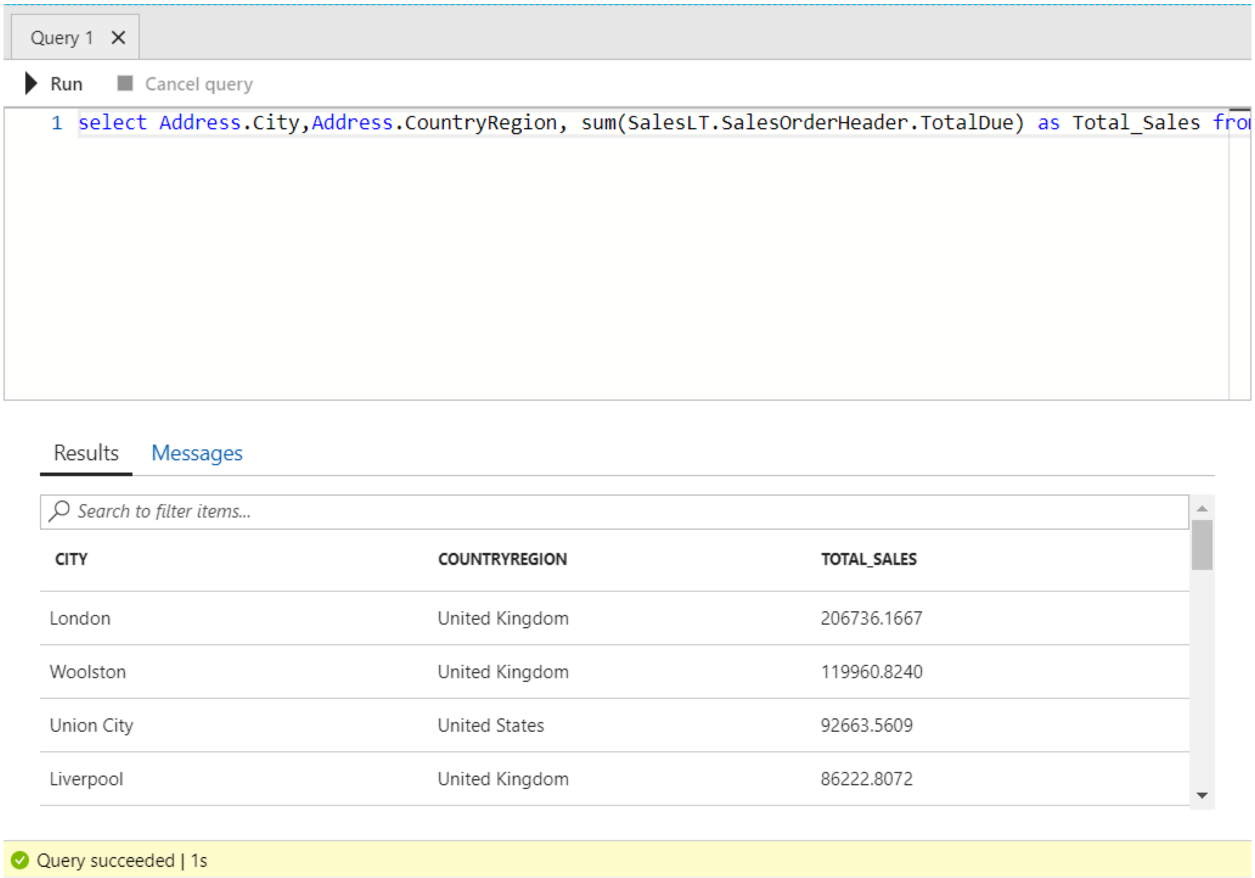
SQL Query: select Address.City,Address.CountryRegion, sum(SalesLT.SalesOrderHeader.TotalDue) as Total_Sales from SalesLT.SalesOrderHeader INNER JOIN SalesLT.Customer on SalesLT.SalesOrderHeader.CustomerID = SalesLT.Customer.CustomerID INNER JOIN SalesLT.CustomerAddress ON SalesLT.Customer.CustomerID = SalesLT.CustomerAddress.CustomerID INNER JOIN SalesLT.Address on SalesLT.CustomerAddress.AddressID = SalesLT.Address.AddressID GROUP BY SalesLT.Address.CountryRegion,SalesLT.Address.City ORDER BY Total_Sales Desc;

Input Tables: SalesLT.SalesOrderHeader, SalesLT.Customer, SalesLT.CustomerAddress, SalesLT.Address

Input Columns : `Address.City ,Address.CountryRegion, SalesLT.SalesOrderHeader.TotalDue, SalesLT.SalesOrderHeader.CustomerID, SalesLT.Customer.CustomerID, SalesLT.CustomerAddress.CustomerID, SalesLT.CustomerAddress.AddressID, SalesLT.Address.AddressID`

Output Columns : CITY,COUNTRYREGION, TOTAL_SALES

Total Number of Rows in results : 29



```
select Address.City,Address.CountryRegion, sum(SalesLT.SalesOrderHeader.TotalDue) as Total_Sales fro
```

CITY	COUNTRYREGION	TOTAL_SALES
London	United Kingdom	206736.1667
Woolston	United Kingdom	119960.8240
Union City	United States	92663.5609
Liverpool	United Kingdom	86222.8072

Query succeeded | 1s

d) Total sales by customer (person) – ranked/sorted (highest to lowest)

SQL Query:

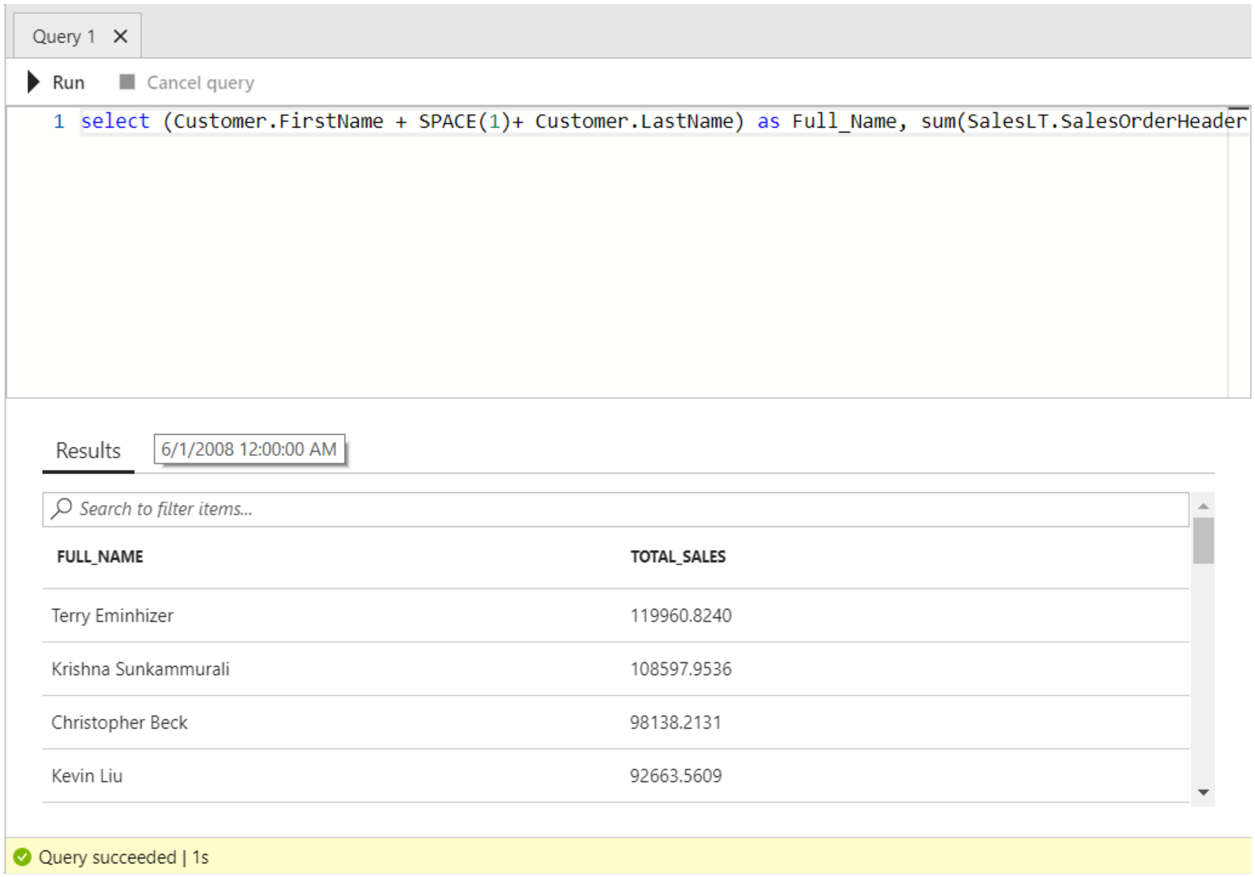
```
select (Customer.FirstName + SPACE(1)+ Customer.LastName) as Full_Name,
sum(SalesLT.SalesOrderHeader.TotalDue) as Total_Sales from
SalesLT.SalesOrderHeader inner join SalesLT.Customer on
SalesLT.SalesOrderHeader.CustomerID = SalesLT.Customer.CustomerID Group by
(Customer.FirstName + SPACE(1) +Customer.LastName) order by Total_Sales desc;
```

Input Tables: `SalesLT.SalesOrderHeader, SalesLT.Customer`

Input Columns : `Customer.FirstName, Customer.MiddleName, Customer.LastName, SalesLT.SalesOrderHeader.TotalDue, SalesLT.SalesOrderHeader.CustomerID, SalesLT.Customer.CustomerID`

Output Columns : FULL_NAME, TOTAL_SALES

Total Number of Rows in results : 32



```
select (Customer.FirstName + SPACE(1)+ Customer.LastName) as Full_Name, sum(SalesLT.SalesOrderHeader
```

FULL_NAME	TOTAL_SALES
Terry Eminhizer	119960.8240
Krishna Sunkammurali	108597.9536
Christopher Beck	98138.2131
Kevin Liu	92663.5609

Query succeeded | 1s

e) Total sales by customer (company) – ranked/sorted (highest to lowest)

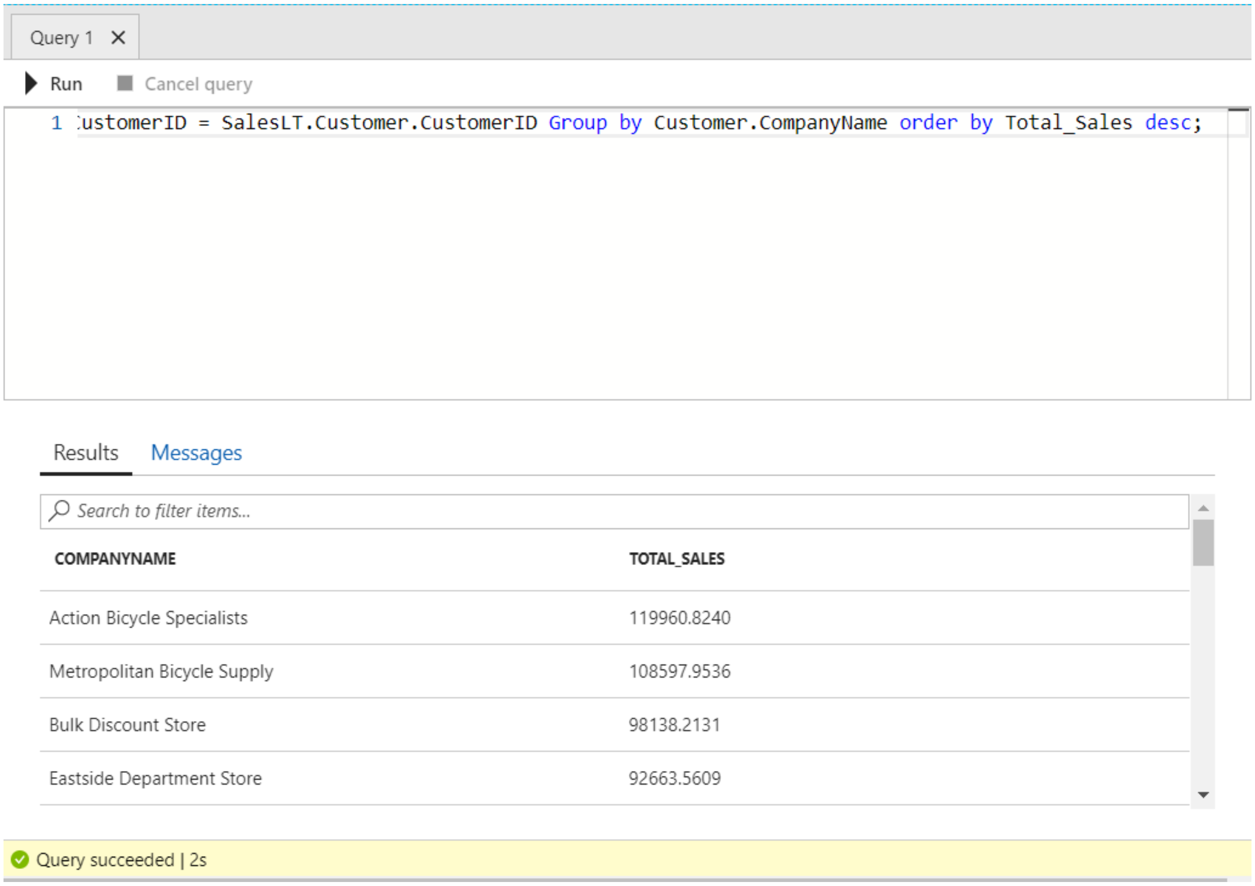
SQL Query: `select Customer.CompanyName, sum(SalesLT.SalesOrderHeader.TotalDue) as Total_Sales from SalesLT.SalesOrderHeader inner join SalesLT.Customer on SalesLT.SalesOrderHeader.CustomerID = SalesLT.Customer.CustomerID Group by Customer.CompanyName order by Total_Sales desc;`

Input Tables: `SalesLT.SalesOrderHeader, SalesLT.Customer`

Input Columns : `Customer.CompanyName, SalesLT.SalesOrderHeader.TotalDue, SalesLT.SalesOrderHeader.CustomerID, SalesLT.Customer.CustomerID`

Output Columns : COMPANYNAME, TOTAL_SALES

Total Number of Rows in results : 32



```
:ustomerID = SalesLT.Customer.CustomerID Group by Customer.CompanyName order by Total_Sales desc;
```

COMPANYNAME	TOTAL_SALES
Action Bicycle Specialists	119960.8240
Metropolitan Bicycle Supply	108597.9536
Bulk Discount Store	98138.2131
Eastside Department Store	92663.5609

Query succeeded | 2s

f) Sales by product category – ranked/sorted (highest to lowest)

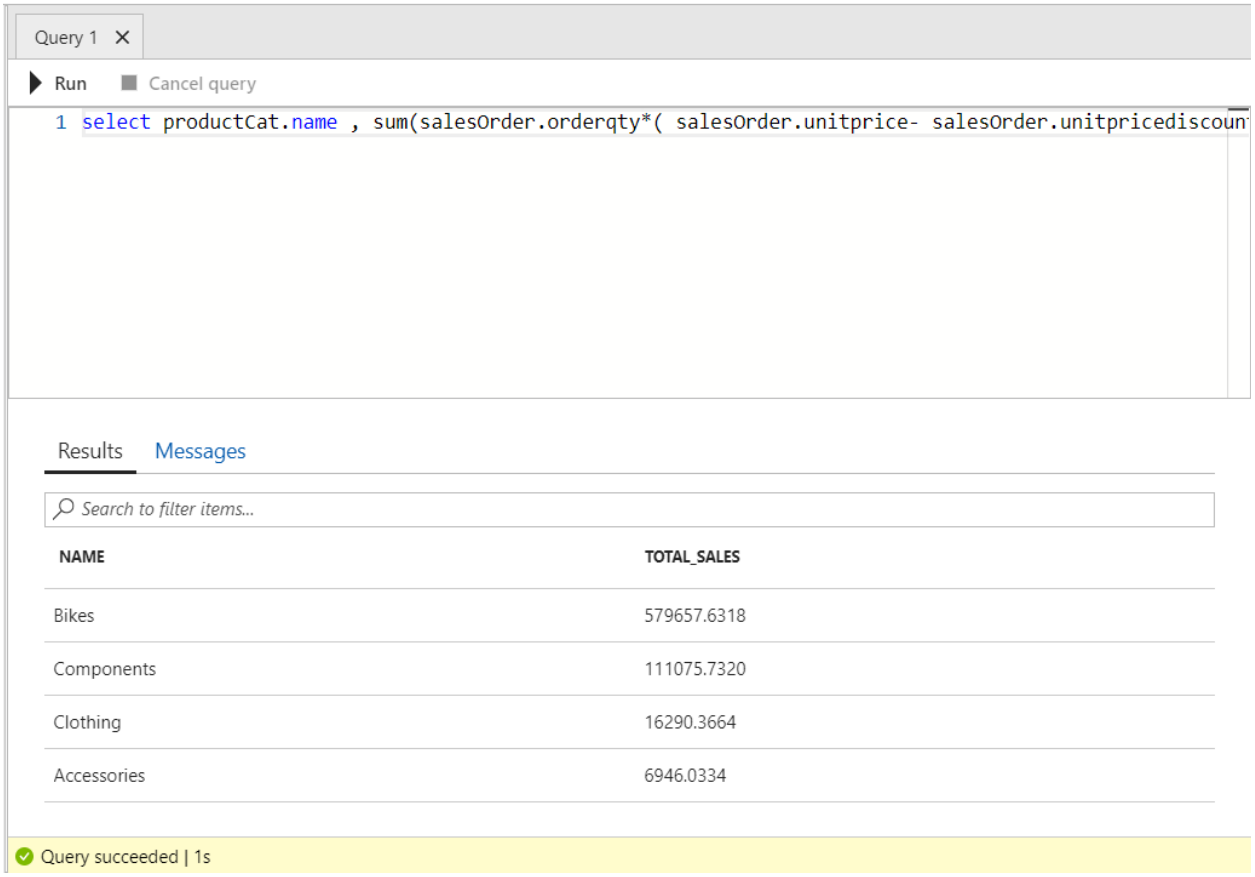
SQL Query: `select productCat.name , sum(salesOrder.orderqty*(salesOrder.unitprice- salesOrder.unitpricediscount)) as Total_Sales from saleslt.productcategory prod join saleslt.productcategory productCat on prod.parentproductcategoryid= productCat.productcategoryid join saleslt.product salesProd on prod.productcategoryid= salesProd.productcategoryid join saleslt.salesorderdetail salesOrder on salesProd.productid= salesOrder.productid group by productCat.name order by Total_Sales desc;`

Input Tables: `SalesLT.SalesOrderDetail, SalesLT.Product,SalesLT.ProductCategory`

Input Columns :

Output Columns : NAME,TOTAL_SALES

Total Number of Rows in results : 4



```sql
select productCat.name , sum(salesOrder.orderqty*( salesOrder.unitprice- salesOrder.unitpricediscoun
```

NAME	TOTAL_SALES
Bikes	579657.6318
Components	111075.7320
Clothing	16290.3664
Accessories	6946.0334

Query succeeded | 1s

g) Sales by product name – ranked/sorted (highest to lowest)

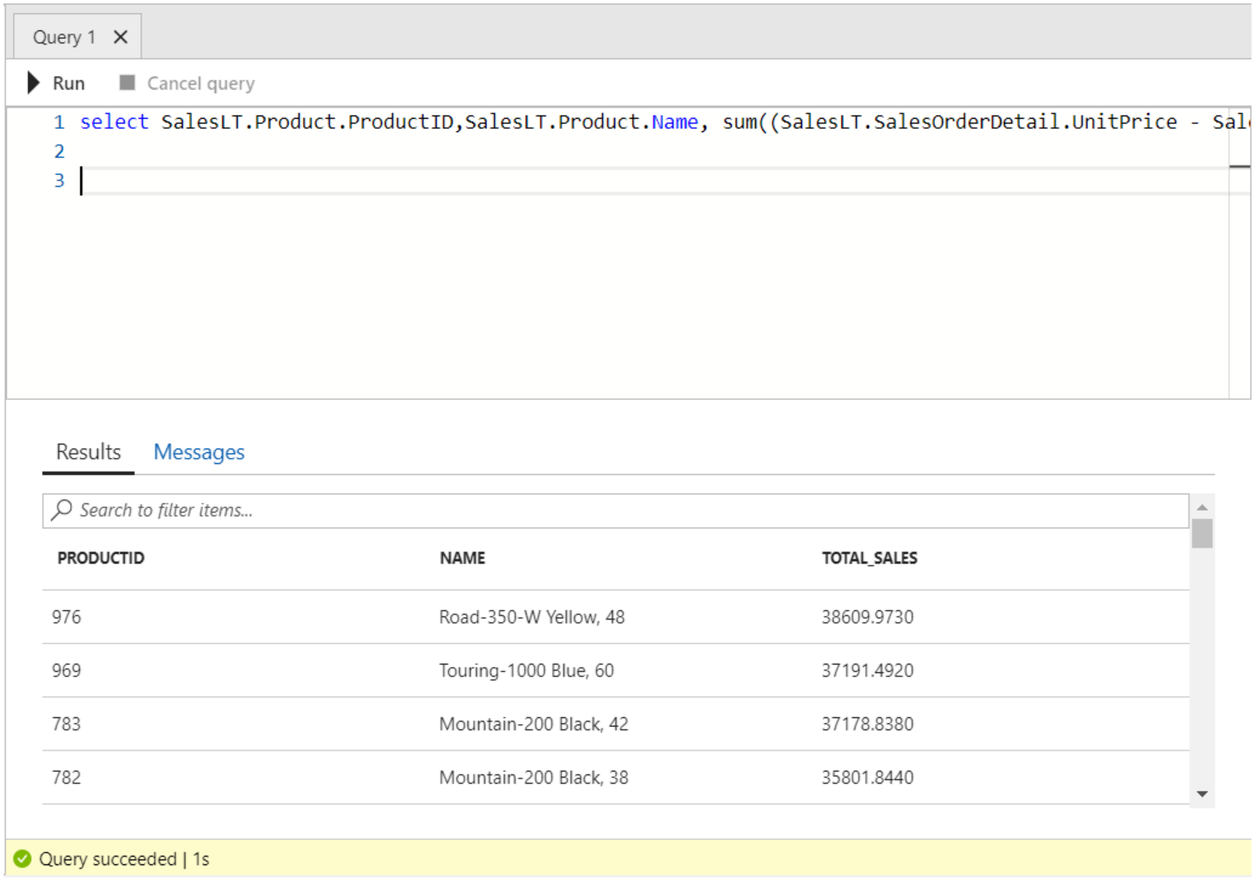
SQL Query:
```sql
select SalesLT.Product.ProductID,SalesLT.Product.Name,
sum((SalesLT.SalesOrderDetail.UnitPrice -
SalesLT.SalesOrderDetail.UnitPriceDiscount)*SalesLT.SalesOrderDetail.OrderQty) as
Total_Sales from SalesLT.SalesOrderDetail inner join SalesLT.Product on
SalesLT.SalesOrderDetail.ProductID = SalesLT.Product.ProductID Group by
SalesLT.Product.ProductID,SalesLT.Product.Name order by Total_Sales Desc;
```

Input Tables: `SalesLT.SalesOrderDetail, SalesLT.Product`

Input Columns :

Output Columns : PRODUCTID,NAME,TOTAL_SALES

Total Number of Rows in results : 142



```sql
select SalesLT.Product.ProductID,SalesLT.Product.Name, sum((SalesLT.SalesOrderDetail.UnitPrice - Sal


```

PRODUCTID	NAME	TOTAL_SALES
976	Road-350-W Yellow, 48	38609.9730
969	Touring-1000 Blue, 60	37191.4920
783	Mountain-200 Black, 42	37178.8380
782	Mountain-200 Black, 38	35801.8440

Query succeeded | 1s