SQL Queries

--- part A Using SalesOrderHeader ---

SELECT

SUM(SubTotal) AS TotalSales\_SOH

FROM

SalesLT.SalesOrderHeader

--- Using SalesOrderDetail ---

SELECT

SUM(LineTotal) AS TotalSales\_SOD

FROM

SalesLT.SalesOrderDetail

--- Comparison querying with SalesOrderHeader vs SalesOrderDetail ---

SELECT

SUM(SubTotal) AS TotalSales\_SOH,

SUM(LineTotal) AS TotalSales\_SOD

FROM

SalesLT.SalesOrderHeader, SalesLT.SalesOrderDetail

--- part B Total sales $ by country – ranked/sorted (highest to lowest)--

SELECT

A.CountryRegion,

SUM(SOH.TotalDue) AS TotalSalesAmount

FROM

SalesLT.SalesOrderHeader SOH

JOIN

SalesLT.CustomerAddress C ON SOH.CustomerID = C.CustomerID

JOIN

SalesLT.Address A ON C.AddressID = A.AddressID

GROUP BY

A.CountryRegion

ORDER BY

TotalSalesAmount DESC;

Total 956303.5949

Total rows 2

---part C Total sales $ by country, state & city---

--- by country ---

SELECT

A.CountryRegion,

SUM(SOH.TotalDue) AS TotalSalesAmount

FROM

SalesLT.SalesOrderHeader SOH

JOIN

SalesLT.CustomerAddress C ON SOH.CustomerID = C.CustomerID

JOIN

SalesLT.Address A ON C.AddressID = A.AddressID

GROUP BY

A.CountryRegion

ORDER BY

TotalSalesAmount DESC;

total 956303.5949

Total rows 2

---by state---

SELECT

A.StateProvince,

SUM(SOH.TotalDue) AS TotalSalesAmount

FROM

SalesLT.SalesOrderHeader SOH

JOIN

SalesLT.CustomerAddress C ON SOH.CustomerID = C.CustomerID

JOIN

SalesLT.Address A ON C.AddressID = A.AddressID

GROUP BY

A.StateProvince

ORDER BY

TotalSalesAmount DESC;

Total 956303.5949

Total rows 6

---by city---

SELECT

A.City,

SUM(SOH.TotalDue) AS TotalSalesAmount

FROM

SalesLT.SalesOrderHeader SOH

JOIN

SalesLT.CustomerAddress C ON SOH.CustomerID = C.CustomerID

JOIN

SalesLT.Address A ON C.AddressID = A.AddressID

GROUP BY

A.City

ORDER BY

TotalSalesAmount DESC;

Total 956303.5949

Total rows 29

--- part D Total sales $ by customer (person) – ranked/sorted (highest to lowest)----

SELECT

CONCAT(C.LastName, ', ', C.FirstName) AS Customer,

SUM(SOH.TotalDue) AS TotalSalesAmount

FROM

SalesLT.SalesOrderHeader SOH

JOIN

SalesLT.Customer C ON SOH.CustomerID = C.CustomerID

GROUP BY

C.LastName, C.FirstName

ORDER BY

TotalSalesAmount DESC;

Total 956303.5949

Total rows 32

---- part E Total sales $ & by customer (company) – ranked/sorted (highest to lowest)

---- and H Sales $ by Company (Reseller) ----

SELECT

C.CompanyName AS Customer,

SUM(SOH.TotalDue) AS TotalSalesAmount

FROM

SalesLT.SalesOrderHeader SOH

JOIN

SalesLT.Customer C ON SOH.CustomerID = C.CustomerID

WHERE

C.CompanyName IS NOT NULL -- Include only company customers

GROUP BY

C.CompanyName

ORDER BY

TotalSalesAmount DESC;

Total 956303.5949

Total rows 32

--- part F Sales $ by product category hierarchy – Product & vGetAllCategories ---

SELECT

PC.Name AS ProductCategory,

SUM(SOD.LineTotal) AS TotalSalesAmount

FROM

SalesLT.SalesOrderDetail SOD

JOIN

SalesLT.Product P ON SOD.ProductID = P.ProductID

JOIN

SalesLT.ProductCategory PC ON P.ProductCategoryID = PC.ProductCategoryID

GROUP BY

PC.Name

ORDER BY

TotalSalesAmount DESC;

Total 708690.1531

Total rows 26

--- part G Sales $ by product name – ranked/sorted (highest to lowest) ---

SELECT

P.Name AS ProductName,

SUM(SOD.LineTotal) AS TotalSalesAmount

FROM

SalesLT.SalesOrderDetail SOD

JOIN

SalesLT.Product P ON SOD.ProductID = P.ProductID

GROUP BY

P.Name

ORDER BY

TotalSalesAmount DESC;

Total 708690.1531

Total rows 142

--- part I Product Category Sales $ by Company (Reseller) ---

SELECT

C.CompanyName as Company\_Reseller,

PC.Name AS ProductCategory,

SUM(SOD.LineTotal) AS TotalSalesAmount

FROM

SalesLT.SalesOrderDetail SOD

JOIN

SalesLT.Product P ON SOD.ProductID = P.ProductID

JOIN

SalesLT.ProductCategory PC ON P.ProductCategoryID = PC.ProductCategoryID

JOIN

SalesLT.SalesOrderHeader SOH ON SOD.SalesOrderID = SOH.SalesOrderID

JOIN

SalesLT.Customer C ON SOH.CustomerID = C.CustomerID

GROUP BY

C.CompanyName, PC.Name

ORDER BY

TotalSalesAmount DESC;

Total 708690.1531

Total rows 195