Section:

Student:

Challenge 1

Q1:

-- Retrieve the name and approximate weight of each product

Select ProductID,UPPER(Name), ROUND(Weight,0) as ApproxWeight from SalesLT.Product;

Q2:

-- Retrieve the month and year in which products were first sold

Select ProductID, Name, DATEPART(yyyy,SellStartDate) as [Starting year],

DATEPART(mm,SellStartDate) as [Starting Month] from SalesLT.Product;

Q3:

-- Extract product types from product numbers

Select LEFT(ProductNumber,2) as [Product Type] from SalesLT.Product;

Q4:

-- Retrieve only products with numerical size

Select ProductID,Name, Size from SalesLT.Product where ISNUMERIC(Size) = 1;

Challenge 2

Q1:

-- Retrieve companies ranked by sales totals

Select RANK() over (Order by TotalDue desc ) as position, CustomerID, TotalDue

from SalesLT.SalesOrderHeader;

Challenge 3

Q1:

-- Retrieve total sales by product

Select s.ProductID,p.Name, SUM(LineTotal) as Total from SalesLT.SalesOrderDetail as s

inner join SalesLT.Product as p on s.ProductID = p.ProductID

Group by s.ProductID, p.Name order by Total desc

Q2:

-- Filter the product sales list to include only products that cost over $1,000

Select s.ProductID,p.Name, SUM(LineTotal) as Total, s.UnitPrice from SalesLT.SalesOrderDetail as s

inner join SalesLT.Product as p on s.ProductID = p.ProductID where s.UnitPrice >1000

Group by s.ProductID, p.Name,s.UnitPrice order by Total desc

Q3:

-- Filter the product sales groups to include only total sales over $20,000

Select s.ProductID,p.Name, SUM(LineTotal) as Total, s.UnitPrice from SalesLT.SalesOrderDetail as s

inner join SalesLT.Product as p on s.ProductID = p.ProductID

Group by s.ProductID, p.Name,s.UnitPrice having Sum(LineTotal) > 20000 order by Total desc