Section:

Student:

Challenge 1

Q1:

-- Retrieve products whose list price is higher than the average unit price

elect distinct p.[ProductID],p.[Name],p.[ListPrice] from [SalesLT].[Product] p join [SalesLT].[SalesOrderDetail] so on p.ProductID=so.ProductID group by p.[ProductID],p.[Name],p.[ListPrice] having p.ListPrice> AVG(so.UnitPrice)

Q2:

--Retrieve Products with a list price of $100 or more that have been sold for less than $100

select distinct p.[ProductID],p.[Name],p.[ListPrice] from [SalesLT].[Product] p join [SalesLT].[SalesOrderDetail] so on p.ProductID=so.ProductID where p.ListPrice >= 100 AND so.UnitPrice <100

Q3:

-- Retrieve the cost, list price, and average selling price for each product

select distinct p.[ProductID],p.[Name],p.[ListPrice],p.[StandardCost] ,(select AVG(so.UnitPrice) from [SalesLT].[SalesOrderDetail] so) as AverageSellingPrice from [SalesLT].[Product] p ;

Q4:

-- Retrieve products that have an average selling price that is lower than the cost

select distinct p.[ProductID],p.[Name],p.[ListPrice],p.[StandardCost] ,AVG(so.UnitPrice) as AverageSellingPrice from [SalesLT].[SalesOrderDetail] so join [SalesLT].[Product] p on so.ProductID=p.ProductID group by p.[ProductID],p.[Name],p.[ListPrice],p.[StandardCost] having AVG(so.UnitPrice)< p.[StandardCost];

Challenge 2

Q1:

-- Retrieve customer information for all sales orders

select so.[SalesOrderID],so.[CustomerID],c.[FirstName],c.[LastName], so.[TotalDue]

FROM [SalesLT].[SalesOrderHeader] AS so

CROSS APPLY dbo.ufnGetCustomerInformation(so.CustomerID) AS c;

Q2:

-- Retrieve customer address information

select ca.[CustomerID],c.[FirstName],c.[LastName],a.[AddressLine1],a.[City] from[SalesLT].[Address] a join

[SalesLT].[CustomerAddress] ca on a.AddressID=ca.AddressID

CROSS APPLY dbo.ufnGetCustomerInformation(ca.CustomerID) AS c;