**Section : 03**

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**Challenge 1: Generate Invoice Reports**

**Que 1:**

-- Retrieve customer orders

SELECT CompanyName,

SalesOrderID,

TotalDue

FROM AdventureWorksLT2012.SalesLT.Customer as A

JOIN AdventureWorksLT2012.SalesLT.SalesOrderHeader as B

ON A.CustomerID=B.CustomerID;

**Que 2:**

-- Retrieve customer orders with addresses

SELECT A.CompanyName,

B.SalesOrderID,

B.TotalDue,

D.AddressLine1,

D.AddressLine2,

D.City,

D.StateProvince,

D.PostalCode,

D.CountryRegion

FROM AdventureWorksLT2012.SalesLT.Customer AS A

JOIN AdventureWorksLT2012.SalesLT.SalesOrderHeader AS B ON A.CustomerID =B.CustomerID

JOIN AdventureWorksLT2012.SalesLT.CustomerAddress AS C ON A.CustomerID = C.CustomerID

AND C.AddressType = 'Main Office'

JOIN AdventureWorksLT2012.SalesLT.Address AS D ON C.AddressID = D.AddressID;

Challenge 2: Retrieve Sales Data

Que 1:

--Retrieve a list of all customers and their orders

SELECT A.CompanyName,

A.FirstName +' ' + A.LastName AS ContactName,

B.SalesOrderID,

B.TotalDue

FROM AdventureWorksLT2012.SalesLT.Customer AS A

LEFT JOIN AdventureWorksLT2012.SalesLT.SalesOrderHeader AS B ON A.CustomerID = B.CustomerID

ORDER BY COALESCE(B.SalesOrderID, B.TotalDue) DESC;

Que 2:

--Retrieve a list of customers with no address

SELECT A.CustomerID,

CompanyName,

FirstName+' '+LastName AS ContactName,

Phone

FROM AdventureWorksLT2012.SalesLT.Customer A

LEFT JOIN AdventureWorksLT2012.SalesLT.CustomerAddress AS B

ON A.CustomerID = B.CustomerID

WHERE B.CustomerID IS NULL;

OR

SELECT CustomerID,

CompanyName,

FirstName+' '+LastName AS ContactName,

Phone

FROM AdventureWorksLT2012.SalesLT.Customer

EXCEPT

SELECT A.CustomerID,

A.CompanyName,

A.FirstName+' '+A.LastName AS ContactName,

A.Phone

FROM AdventureWorksLT2012.SalesLT.Customer AS A

JOIN AdventureWorksLT2012.SalesLT.CustomerAddress AS B ON A.CustomerID = B.CustomerID;

Que 3:

SELECT A.CustomerID

FROM AdventureWorksLT2012.SalesLT.Customer AS A

Left JOIN AdventureWorksLT2012.SalesLT.SalesOrderHeader AS B ON A.CustomerID = B.CustomerID

where B.SalesOrderID IS NULL;

SELECT A.ProductID

FROM AdventureWorksLT2012.SalesLT.Product AS A

LEFT JOIN AdventureWorksLT2012.SalesLT.SalesOrderDetail AS B ON A.ProductID = B.ProductID

where B.ProductID IS NuLL;