**Section : 03**

**Name : Sushma Suttakote Parameshappa**

**Challenge 1: Retrieve Customer Addresses**

**Que 1:**

-- Retrieve billing addresses

SELECT A.CompanyName,

D.AddressLine1,

D.City,

'Billing' AS AddressType

FROM AdventureWorksLT2012.SalesLT.Customer AS A

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;

**Que 2:**

-- Retrieve shipping addresses

SELECT A.CompanyName,

D.AddressLine1,

D.City,

C.AddressType

FROM AdventureWorksLT2012.SalesLT.Customer AS A

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

AND C.AddressType = 'Shipping'

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

**Que 3:**

-- Combine billing and shipping addresses

SELECT CompanyName,

AddressLine1,

City,

AddressType

FROM

(

SELECT A.CompanyName AS CompanyName,

D.AddressLine1 AS AddressLine1,

D.City AS City,

C.AddressType AS AddressType

FROM AdventureWorksLT2012.SalesLT.Customer AS A

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

AND C.AddressType = 'Shipping'

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

UNION

SELECT A.CompanyName AS CompanyName,

D.AddressLine1 AS AddressLine1,

D.City AS City,

'Billing' AS AddressType

FROM AdventureWorksLT2012.SalesLT.Customer AS A

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

) AS A

ORDER BY CompanyName, AddressType;

**Challenge 2: Filter Customer Addresses**

**Que 1:**

--Retrieve customers with only a main office address

SELECT A.CompanyName

FROM AdventureWorksLT2012.SalesLT.Customer AS A

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

EXCEPT

SELECT A.CompanyName

FROM AdventureWorksLT2012.SalesLT.Customer AS A

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

AND C.AddressType = 'Shipping';

**Que 2:**

--Retrieve customers with both a main office address and shipping address

SELECT A.CompanyName

FROM AdventureWorksLT2012.SalesLT.Customer AS A

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

AND C.AddressType = 'Main Office'

INTERSECT

SELECT A.CompanyName

FROM AdventureWorksLT2012.SalesLT.Customer AS A

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

AND C.AddressType = 'Shipping';