--Examples of Union, Except, Intersect

USE Joins

GO

--CREATE NEW TABLE

CREATE TABLE dbo.Buyer

(BuyID int IDENTITY (1,1) NOT NULL PRIMARY KEY,--<<Primary Key

BuyFname varchar (20) NULL,

BuyLname varchar (20) NULL,

Age char (3) NULL)

--INSERT DATA

INSERT INTO dbo.Buyer

VALUES

('BOB', 'SMITH','35'),

('TOM', 'JONES','25'),

('MIKE', 'COBAL','15'),

('DREW', 'SHAFFER','75'),

('HENRY', 'WILLIS','37'),

('RAF', 'ASGHAR','35')--<< This row will exists in both tables for our demo

Select \* from dbo.Buyer

--CREATE 2nd TABLE

CREATE TABLE dbo.Supplier

(SuppID int IDENTITY (1,1) NOT NULL PRIMARY KEY, --<<Primary Key

SuppFname varchar (20) NULL,

SuppLname varchar (20) NULL,

Age char (3) NULL)

--INSERT DATA

INSERT INTO dbo.Supplier

VALUES

('Jack', 'Supplies','35'),

('Mike', 'Supplies','25'),

('Jessy', 'Supplies','15'),

('DREW', 'Supplies','75'),

('John', 'Supplies','37'),

('Mary', 'Supplies','35'),

('RAF', 'ASGHAR','35') --<<Duplicate value shared by both tables

Select \* from dbo.Supplier

--USE OF UNION operator combines the result set from two or more tables.The UNION operator selects only distinct values by default

SELECT [BuyFname],[BuyLname]

FROM [dbo].[Buyer]

UNION

SELECT [SuppFname],[SuppLname]

FROM [dbo].[Supplier]

-- 12 Records

--USE OF UNION with ALL. To allow duplicate values, use the ALL keyword with UNION

SELECT [BuyFname],[BuyLname]

FROM [dbo].[Buyer]

UNION

ALL --<< Using ALL Keyword to view duplicate records between the tables

SELECT [SuppFname],[SuppLname]

FROM [dbo].[Supplier]

-- 13 Records (Raf Asghar is displayed twice because of ALL Keyword)

--USE OF EXCEPT. Exclude data from two or more tables that exist in both tables

SELECT [BuyFname],[BuyLname]

FROM [dbo].[Buyer]

EXCEPT

SELECT [SuppFname],[SuppLname]

FROM [dbo].[Supplier]

--Note Raf Asghar is NOT included in the results as it exists in both tables

--USE OF INTERSECT. Command includes data from two or more tables that exist in both tables

SELECT [BuyFname],[BuyLname]

FROM [dbo].[Buyer]

INTERSECT

SELECT [SuppFname],[SuppLname]

FROM [dbo].[Supplier]

--Note Raf Asghar IS included in the results as it exists in both tables

--CLEANING UP

DROP TABLE Supplier

DROP TABLE Buyer