--1. HIGHLIGHT THE FOLLOWING SCRIPT UNTIL YOU REACH QUIZ 4, THEN PRESS F5. THEN TAKE THE TEST

USE joins

GO

CREATE TABLE Emp\_Test

(NameID int NOT NULL IDENTITY (1, 1) PRIMARY KEY, --<< Note: This is the Primary Key for this table.

Fname varchar (20) NULL,

Lname varchar (20) NULL,

Gender char (1) NULL)

--Insert data into table names

INSERT INTO Emp\_Test

VALUES

('Mary','Jones','F'), --1

('Todd','Smith','M'), --2

('Sam','Book','M'), --3

('Bill','Lamp','M'), --4

('Leslie','Keys','F'),--5

('Daniella','Horton','F')--6

CREATE TABLE Emp\_Depart

(DepartmentID int NOT NULL IDENTITY (1, 1) PRIMARY KEY, --<<Note: This is the Primary Key for this table

Department varchar (20),

BuildingCode varchar (20),

NameID int FOREIGN KEY REFERENCES Names (NameID) NULL) --<<Note: This is the Foreign Key in this table that has a relationship with Names table

INSERT INTO Emp\_Depart

VALUES

('Sales','abc', 1),

('Accounts','xyz', 1),

('Purchasing','123', 2),

('Business','xyz', 2),

('Taxes','xyz', NULL),

('Taxes','xyz', NULL),

('Taxes','xyz', NULL)

--QUIZ 4

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--1. Which department does Mary Jones belong to? Hint: Write an inner join with a where clause to retrieve Mary's data.

--Answer:

SELECT

Emp\_Test.Fname,

Emp\_Test.Lname,

Emp\_Depart.Department

FROM

Emp\_Test --FIRST TABLE

INNER JOIN

Emp\_Depart --SECOND TABLE

ON

Emp\_Test.NameID = Emp\_Depart.NameID

Where Emp\_Test.Fname = 'Mary'

--Results:

--Fname Lname Department

--Mary Jones Sales

--Mary Jones Accounts

--2. Match the following join with the description:

--Example of INNER JOIN -

--Example of LEFT OUTER JOIN -

--Example of RIGHT OUTER JOIN -

--Example of FULL OUTER JOIN -

-- (GIVES US ALL THE DATA FROM BOTH TABLES EVEN IF THEY DONT MATCH)

-- (GIVES US ALL THE DATA FROM THE SECOND TABLE EVEN WHEN THERE IS NO MATCH IN THE FIRST TABLE

-- (GIVES US ALL THE DATA FROM THE FIRST TABLE EVEN WHEN THERE IS NO MATCH IN THE SECOND TABLE

-- (GIVES US ALL THE DATA FROM THE FIRST TABLE WHEN THERE IS A MATCH IN THE SECOND TABLE

--Answer:

--Example of INNER JOIN - 4

--Example of LEFT OUTER JOIN - 3

--Example of RIGHT OUTER JOIN - 2

--Example of FULL OUTER JOIN - 1

--1. (GIVES US ALL THE DATA FROM BOTH TABLES EVEN IF THEY DONT MATCH)

--2. (GIVES US ALL THE DATA FROM THE SECOND TABLE EVEN WHEN THERE IS NO MATCH IN THE FIRST TABLE

--3. (GIVES US ALL THE DATA FROM THE FIRST TABLE EVEN WHEN THERE IS NO MATCH IN THE SECOND TABLE

--4. (GIVES US ALL THE DATA FROM THE FIRST TABLE WHEN THERE IS A MATCH IN THE SECOND TABLE

--3. Write a Full Join that eliminates Nulls. Hint: use the where clause to filter nulls

SELECT

Names.Fname,

Names.Lname,

Department.Department

FROM

Names

FULL JOIN

Department

ON

Names.NameID = Department.NameID

Where Fname IS NOT NULL AND Lname IS NOT NULL AND Department IS NOT NULL