## Assignment #6: Database Design

## **Description:**

The goal is to learn how to build the Data Model for a shopping cart website you will create in assignment 7. Your Data Model will consist of 5 entities that store information about the customers, the products and the purchases. The entities will be related according to the Line-Item Pattern discussed in Chapter 5. You will create a Data Model diagram showing how the entities are related using MS Visio 2010 or MS Visio 2013. Your diagram should use Crows Foot Notation. The following are details describing the five entities of your database:

Column Name	Data Type	Allow Nulls
<b>▶</b> ਊ ID	int	
Firstname	nvarchar(30)	
Lastname	nvarchar(30)	
StreetAddress	nvarchar(50)	<b>V</b>
City	nvarchar(30)	<b>V</b>
State	nvarchar(20)	<b>✓</b>
Zip	nvarchar(10)	<b>✓</b>
Phone	nvarchar(15)	<b>V</b>
Email	nvarchar(30)	

The Customers Entity

	Column Name	Data Type	Allow Nulls
₽₽	ProductID	int	
	ProductType	nvarchar(30)	
	ProductName	nvarchar(50)	<b>V</b>
	ImageFile	nvarchar(30)	<b>V</b>
	UnitPrice	decimal(18, 2)	
	MaxAmount	int	
	DefaultAmount	int	

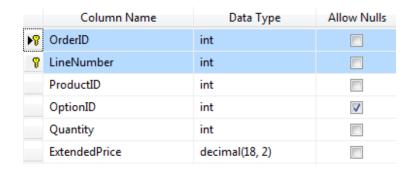
The Products Entity

	Column Name	Data Type	Allow Nulls
Þ₽	OptionID	int	
	OptionType	nvarchar(30)	
	OptionName	nvarchar(50)	
	OptionCost	decimal(18, 2)	

The Options Entity

	Column Name	Data Type	Allow Nulls
<b>▶</b>	erID	int	
Cust	omerID	int	
Date		datetime	
SubT	「otal	decimal(18, 2)	
Tax		decimal(18, 2)	
Tota	I	decimal(18, 2)	

The PurchaseOrders Entity



The LineItems Entity

## **Submission Criteria:**

- 1. The assignment is due Sunday 7/09/2017 at 11:59pm.
- 2. Turn in a Visio Diagram document called ShoppingCart.vsd with your Data Model in it that uses the Line-Item Pattern from Chapter 5.
- 3. Submit your assignment through D2L in the assignment area labeled assignment 6.