1.

USE master;

GO

CREATE DATABASE MyPetShop

ON

( NAME=MyPetShop,

FILENAME='D:\code\vscode\web\Experiment7\Ex7LinqSqlSite\App\_Data\MyPetShop.mdf',

SIZE=5MB,

MAXSIZE=50MB,

FILEGROWTH=1MB)

LOG ON

( NAME=MyPetShop\_log,

FILENAME='D:\code\vscode\web\Experiment7\Ex7LinqSqlSite\App\_Data\MyPetShop\_log.ldf',

SIZE=3MB,

MAXSIZE=25MB,

FILEGROWTH=1MB)

COLLATE Chinese\_PRC\_CS\_AS;

GO

USE MyPetShop

CREATE TABLE [Category] ([CategoryId] int identity PRIMARY KEY,

[Name] nvarchar(80) NULL,[Descn] nvarchar(255) NULL)

CREATE TABLE [Customer]([CustomerId] int identity PRIMARY KEY,

[Name] [nvarchar](80) NOT NULL,[Password] [nvarchar](80) NOT NULL,

[Email] [nvarchar](80) NOT NULL)

CREATE TABLE [Order] ([OrderId] int identity PRIMARY KEY,

[CustomerId] int NOT NULL REFERENCES [Customer] ([CustomerId]),

[UserName] nvarchar(80) NOT NULL,[OrderDate] datetime NOT NULL,

[Addr1] nvarchar(80) NULL,[Addr2] nvarchar(80) NULL,

[City] nvarchar(80) NULL,[State] nvarchar(80) NULL,

[Zip] nvarchar(6) NULL,[Phone] nvarchar(40) NULL,

[Status] nvarchar(10) NULL)

CREATE TABLE [OrderItem]([ItemId] int identity PRIMARY KEY,

[OrderId] int NOT NULL REFERENCES [Order]([OrderId]),

[ProNmae] nvarchar(80),[ListPrice] decimal(10,2) NULL,

[Qty] int NOT NULL,[TotalPrice] decimal(10,2) NULL)

CREATE TABLE [Supplier] ([SuppId] int identity PRIMARY KEY,

[Name] nvarchar(80) NULL,[Addr1] nvarchar(80) NULL,

[Addr2] nvarchar(80) NULL,[City] nvarchar(80) NULL,

[State] nvarchar(80) NULL,[Zip] nvarchar(6) NULL,

[Phone] nvarchar (40) NULL)

CREATE TABLE [Product] ([ProductId] int identity PRIMARY KEY,

[CategoryId] int NOT NULL REFERENCES [Category]([CategoryId]),

[ListPrice] decimal(10,2) NULL,[UnitCost] decimal(10,2)NULL,

[SuppId] int NULL REFERENCES [Supplier]([SuppId]),

[Name] nvarchar(80) NULL,[Descn] nvarchar(255) NULL,

[Image] nvarchar(80) NULL,[Qty] int NOT NULL)

CREATE TABLE [CartItem]([CartItemId] int identity PRIMARY KEY,

[CustomerId] int NOT NULL REFERENCES [Customer]([CustomerId]),

[ProId] int NOT NULL REFERENCES [Product]([ProductId]),

[ProName] [nvarchar](80) NOT NULL,[ListPrice] [decimal](10,2) NOT NULL,

[Qty] [int] NOT NULL)

INSERT INTO [Category] VALUES ('Fish','Fish')

INSERT INTO [Category] VALUES ('Bugs','Bugs')

INSERT INTO [Category] VALUES ('Backyard','Backyard')

INSERT INTO [Category] VALUES ('Birds','Birds')

INSERT INTO [Category] VALUES ('Endangered','Endangered')

INSERT [Customer] ([Name],[Password],[Email])VALUES('admin','123','admin@qq.com')

INSERT [Customer] ([Name],[Password],[Email])VALUES('jack','123','jack@qq.com')

INSERT INTO [Supplier] VALUES ('XYZ Pets','600 Avon Way','','Los Angeles','CA','94024','212-947-0797')

INSERT INTO [Supplier] VALUES ('ABC Pets','700 Abalone Way','','San Francisco','CA','94024','415-947-0797')

INSERT INTO [Product] VALUES (1,12.1,11.4,1,'Meno','Meno','~/Prod\_Images/Fish/meno.gif',100)

INSERT INTO [Product] VALUES (1,28.5,25.5,1,'Eucalyptus','Eucalyptus','~/Prod\_Images/Fish/eucalyptus.gif',100)

INSERT INTO [Product] VALUES (2,23.4,11.4,1,'Ant','Ant','~/Prod\_Images/Bugs/ant.gif',100)

INSERT INTO [Product] VALUES (2,24.7,22.2,1,'Butterfly','Butterfly','~/Prod\_Images/Bugs/butterfly.gif',100)

INSERT INTO [Product] VALUES (3,38.5,37.2,1,'Cat','Cat','~/Prod\_Images/Byckyard/cat.gif',100)

INSERT INTO [Product] VALUES (3,40.4,38.7,1,'Zebra','Zebra','~/Prod\_Images/Backyard/zebra.gif',100)

INSERT INTO [Product] VALUES (4,45.5,44.2,1,'Domestic','Domestic','~/Prod\_Images/Bird/domestic.gif',100)

INSERT INTO [Product] VALUES (4,25.2,23.5,1,'Flowerloving','Flowerloving','~/Prod\_Images/Birds/flowerloving.gif',100)

INSERT INTO [Product] VALUES (5,47.4,45.5,1,'Panda','Panda','~/Prod\_Images/Endangered/panda.gif',100)

INSERT INTO [Product] VALUES (5,35.5,33.5,1,'Pointy','Pointy','~/Prod\_Images/Endangered/pointy.gif',100)

2.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Ex7LinqSqlSite

{

public partial class LinqXml : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void btnQueryAll\_Click(object sender, EventArgs e)

{

Response.Write("<script>window.open('Category.xml','\_blank')</script>");

}

protected void btnQuery\_Click(object sender, EventArgs e)

{

string xmlFilePath = Server.MapPath("~/Category.xml");

var elements = from el in els.Elements("Category")

where (string)el.Element("Name") == txtName.Text

select el;

if (elements.Count() == 0)

{

lblMsg.Text = "没有满足条件的数据";

}

else

{

foreach (XElement el in elements)

{

lblMsg.Text = "CategoryId:" + el.Element("CategoryId").Value + "<br />"

+ "Name:" + el.Element("Name").Value + "<br />" + "Descn:"

+ el.Element("Descn").Value;

}

}

}

protected void btnInsert\_Click(object sender, EventArgs e)

{

Response,Redirect("LinqXmlInsert.aspx");

}

}

}

3. using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace Ex7LinqSqlSite

{

public partial class LinqXmlInsert : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void btnInsert\_Click(object sender, EventArgs e)

{

string xmlFilePath = Server.MapPath("~/Category.xml");

XElement els = XElement.Load(xmlFilePath);

XElement el = new XElementment("Category",

new XElement("CategoryId", txtCategoryId.Text),

new XElement("Name", txtName.Text),

new XElement("Descn", txtDescn.Text));

els.Add(el);

els.Save(xmlFilePath);

}

protected void btnReturn\_Click(object sender, EventArgs e)

{

Response.Redirect("LinqXml.aspx");

}

}

}