Course Title:	IS 312- Database Systems -2
Professor:	Dr Marwa Salah, Dr Hanan Fahmy
Teaching Assisting:	Moataz Abdelfattah
Assignment 1:	Stored Procedures
Due Date:	08 Nov. 2014 – 11:59 PM
General Terms:	No groups allowed

Goal:

- Learn how to create, alter and drop procedures – includes passing parameters and values.
- Learn how to establish connection between web application and Database
- Learn how to call a stored procedure from web application

Task Idea:

Figure 1 shows a sample of product form used to save the information of new products once they received. Figure 2 shows the diagram of relational schema based on the product form.

1. **(1.5 Marks)** Create the Orders database. You must include all constraint specifications to ensure data integrity including referential integrity. You must create your own data to populate tables subject to the following restrictions
    a. **tblProduct**: ID is a primary key. It's value is auto incremented by one
    b. **tblProduct**: SupplierID is a foreign key refers to ID filed in tblSupplier
    c. **tblProduct**: CategoryID is a foreign key refers to ID filed in tblCategory
    d. **tblSupplier**: ID is a primary key. It's value is auto incremented by one
    e. **tblCategory**: ID is a primary key. It's value is auto incremented by one
    f. **Field Datatype:** All fields are Integers except ProductName, CompanyName, CategoryName they are varchar(50) and UnitPrice is Decimal (19,4)

2. **(1.5 Marks)** Create the Following Stored Procedures:
    a. **spGetSuppliers**: to get all suppliers
        - doesn't accept parameters
    b. **spGetCategories**: to get all categories
        - doesn't accept parameters
    c. **spAddProduct**: to insert new product in tblProduct

- accept five parameters productName, SupplierID, CategoryID, UnitPrice, and UnitsInStock

3. **(2 Marks)** Create a simple web application with product form as in figure 1
   a. Supplier DropDownList must be populated from results returned from a stored procedure **spGetSuppliers**
   b. Category DropDownList must be populated from results returned from a stored procedure **spGetCategories**
   c. Once user enters the data and hit submit button. The data must be save in table tblProduct via calling a stored procedure **spAddProduct**

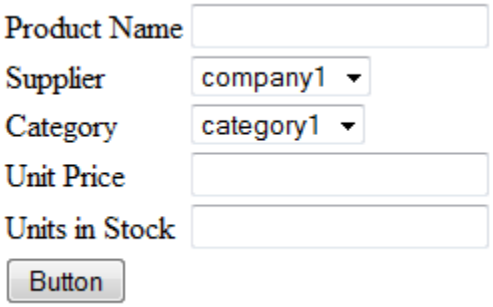

Figure 1 Product Form

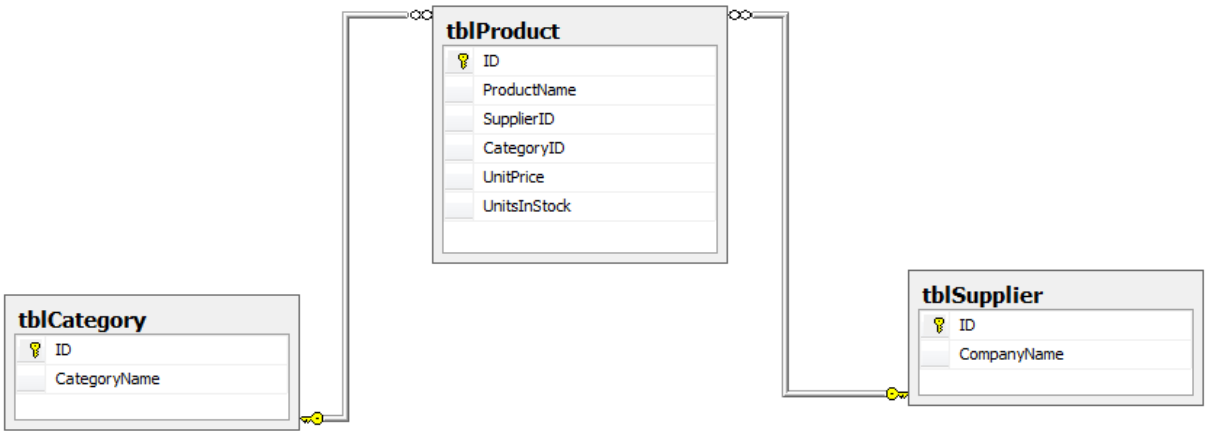

Figure 2 Orders Database

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Departement of Information Systems Fall 2014

Note

- You can build your database using MS SQL Server or using MYSQL
- If you are going to use MS SQL Server then it is better to code in C#. On other hand if you are going to use MYSQL it is better to code in PHP.

Delivery

1. Generate a script of your database. Make sure that the generated .sql file includes all database objects (tables and stored procedures) and also includes the data inside the tables.
2. Zip the database script file along with the source code in one zip file and name it "Assignment1"
3. Compos a new email to mottazabdelfattah@gmail.com with subject DB_ Assignment1 and don't forget to attache the zip file.