**Database Management System - Assignments**

**Session 1**

**Assignment 1**

There is an Organization (StoreFront) that would like to go online for selling their products. We have the following information to build an application that meets the requirements:

* Application contains many Products.
* Categories will categorised the Products.
* Categories can be nested.
* A Product can fall into multiple Categories.
* A Product can have one or more Images.
* User can be a Shopper or Administrator.
* Shopper can place an order having one or more products.
* Shopper can shop only those products which are in stock.
* Shopper can have multiple Shipping Addresses.
* Independent items in an Order can be shipped, canceled or returned.

1. Identify the participating entities.
2. Identify the relations.
3. Identify the key attributes.
4. Draw the E-R diagram for the problem.

**Assignment 2**

* Explain Normalization techniques (along with an example) as discussed during Session.

**Assignment 3**

* Install and connect to MySQL