PORJECT FUNCTIONALITY

Overview

As an e-commerce application, we will deal with operations such as:

- store customers and products info
- confirm order availability
- record orders
- shipping
- update inventories

This documentation provides a complete description of the functionality provided by our project.

To store customers and product info:

we implemented Product table and Customer table with many fields that can represent a certain product or customer clearly. Also, handling the number of a certain kind of product and its price is very important. Thus, we implemented InventoryRecord table to record information of products and this table has a foreign key referencing a certain kind of product.

To check the order availability:

All items must be available in a single transaction to place an order. If a product isn't available because the quantity of units in the inventory for this product isn't enough while customer making the order, then this order and all the order records for this order will not be created as the project description for the Order table requires.

To record shipping actions:

In Order table, if shipment date is null, the order has not yet shipped. Otherwise, shipment date indicates when the order was shipped.

To update inventories:

Every time we complete an order, we need to update the inventory. We use InOrderTriggers to update the quantity of products in corresponding tables.