**CSC4500 Project documentation**

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**Overview:**

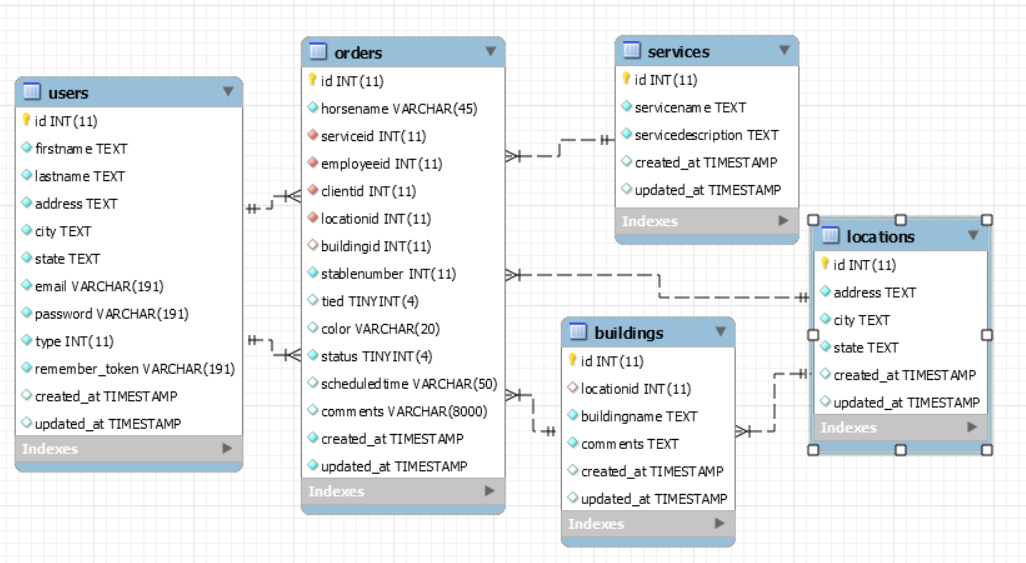
This project is designed for an office or general store that holds and uses or sells office supplies. It is not a direct store where the general public can buy supplies from. It is meant to streamline the process of an office or store to re-stock their inventory of specific office supplies. They will be able to place orders for supplies with specific provides, view their orders, view their coworker contact information, view the costs of the suppliers, and add, change, and sort all of these resources through the admin page if they have proper privileges.

**Tools used:**

* My SQL
* Ruby on Rails
* Bootstrap

**GITHUB LINK:**

<https://github.com/ejoebanks/office>

**Database E/R MODEL**

**Database Constraints**

**Primary Keys**

* EmpId
* OrderId
* OrderStatusId
* SuppliesID
* CostID

**Foreign Keys**

* EmpID in Orders table
* SupplierID in Orders table
* SuppliesID in Orders table
* OrderID in OrderStatus table
* SupplierID in Costs table
* SuppliesID in Inventory table
* SuppliesID in Costs table

Check Constraint used to limit the value range that can be placed in a column

EmpID cannot be a negative number in both employee and orders tables.

OrderID cannot be a negative number in both orders and orderstatus tables.

SuppliesID cannot be a negative number in costs and orders table.

SupplierID cannot be a negative number in both costs and orders table.

CostID cannot be a negative number in costs table.

Totalcost cannot be a negative number in the orders table.

Quantity cannot be a negative number in Inventory table.

Cost cannot be a negative number in cost table.

FirstName and Last Name cannot be more than 10 characters in Employee table.

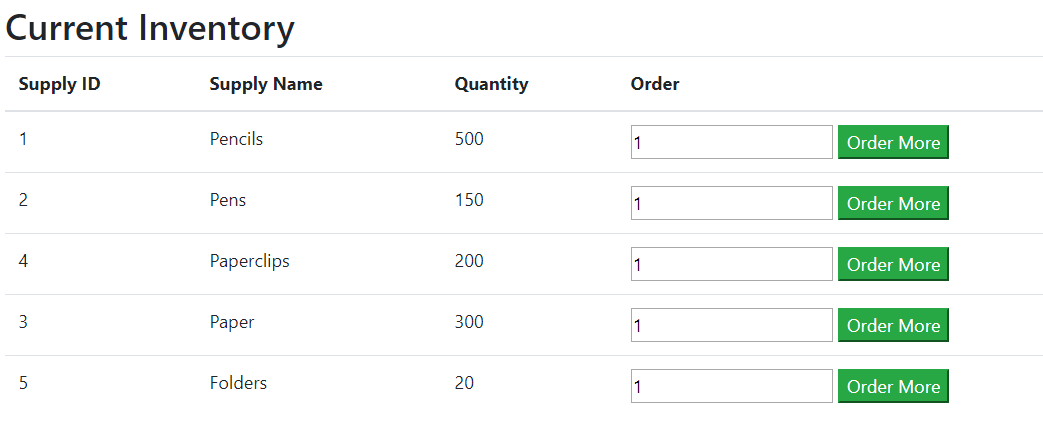
Name cannot be more than 25 characters in Suppliers table.

**Not NULL constraints**

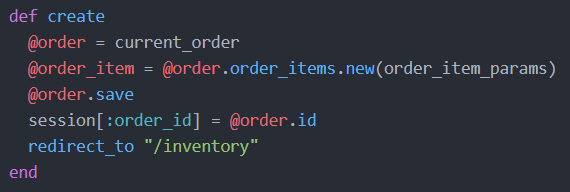
There is not a single variable that should be null

**pages:**

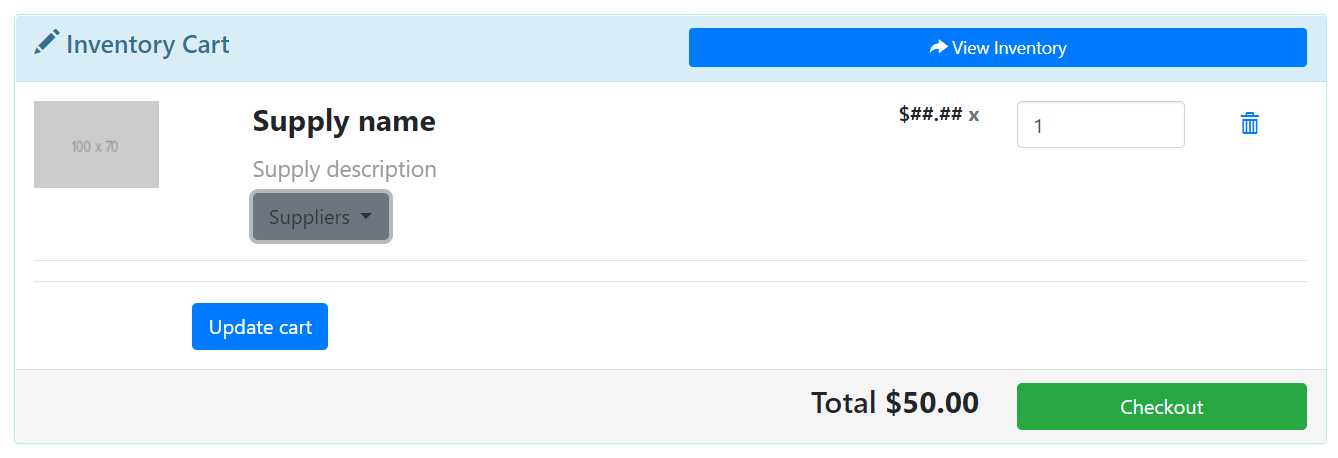
Inventory:



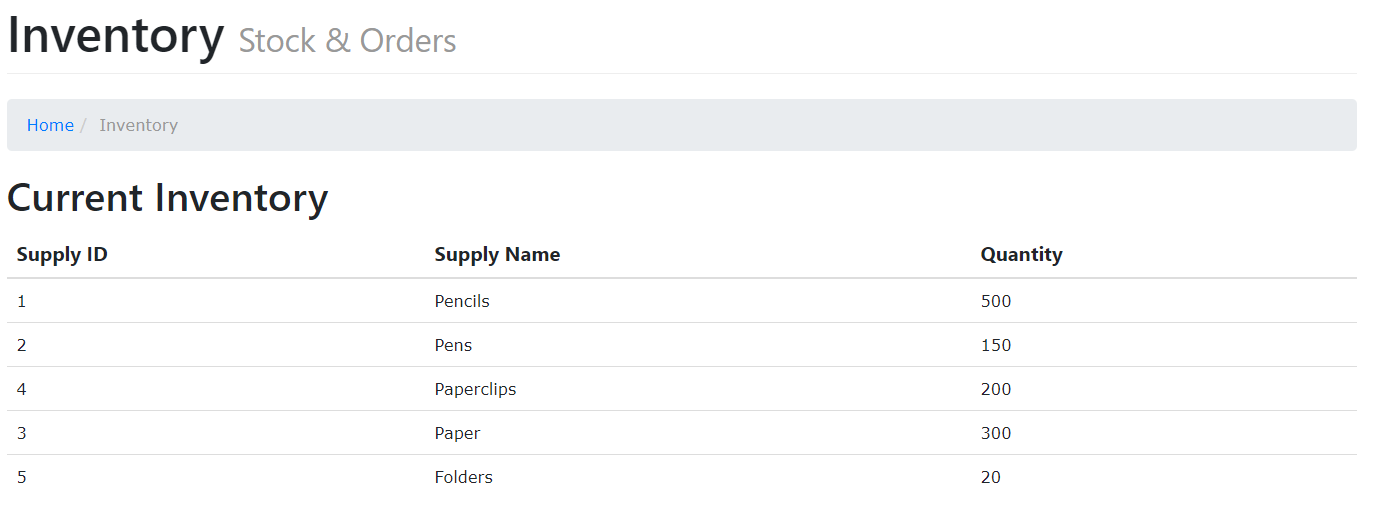
Inventory Functionality:



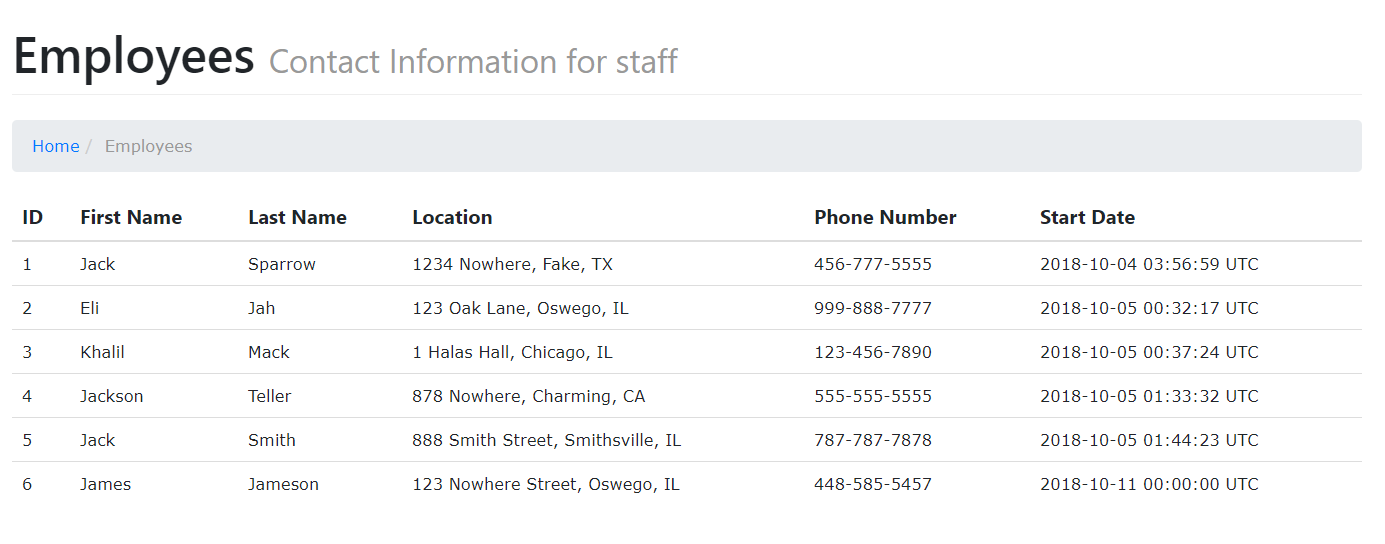
Inventory Cart:



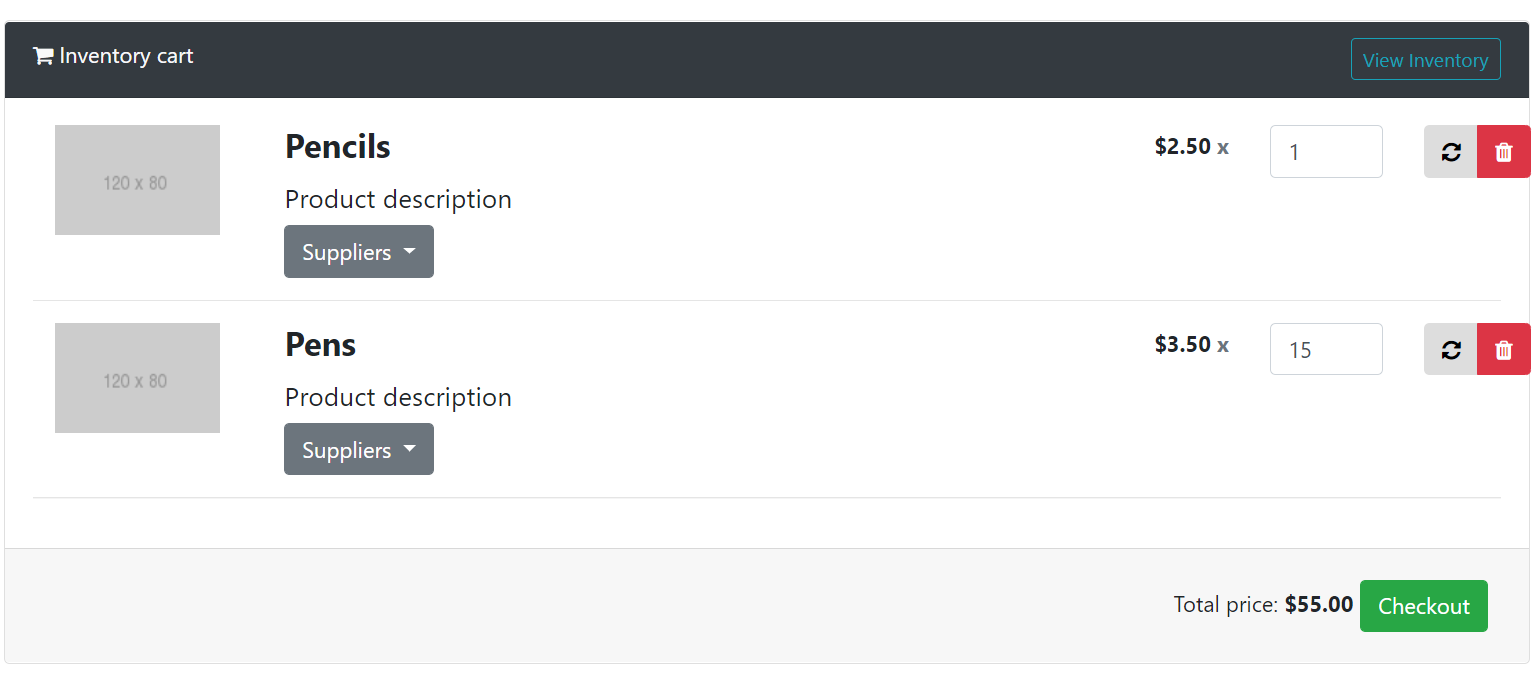
Normal User Inventory View:



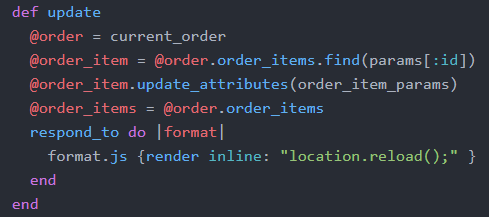
Employees:



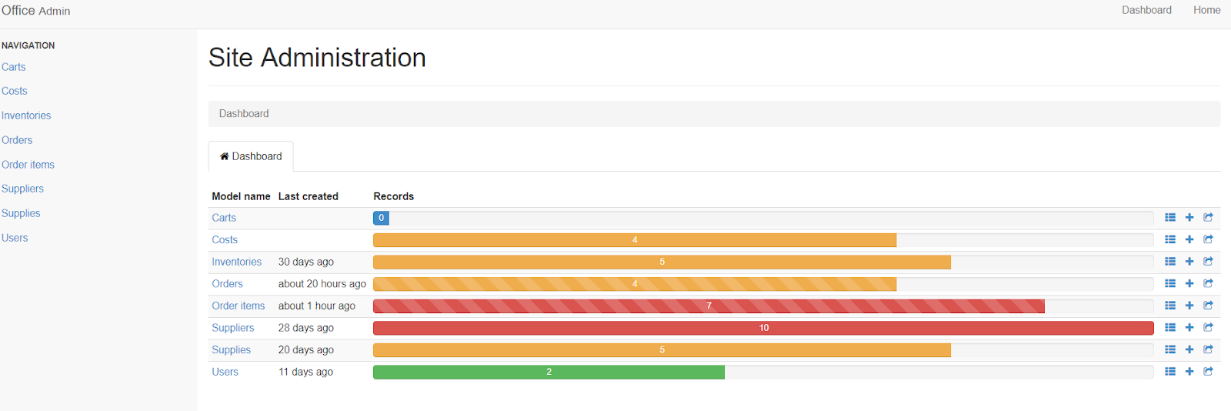
Cart:



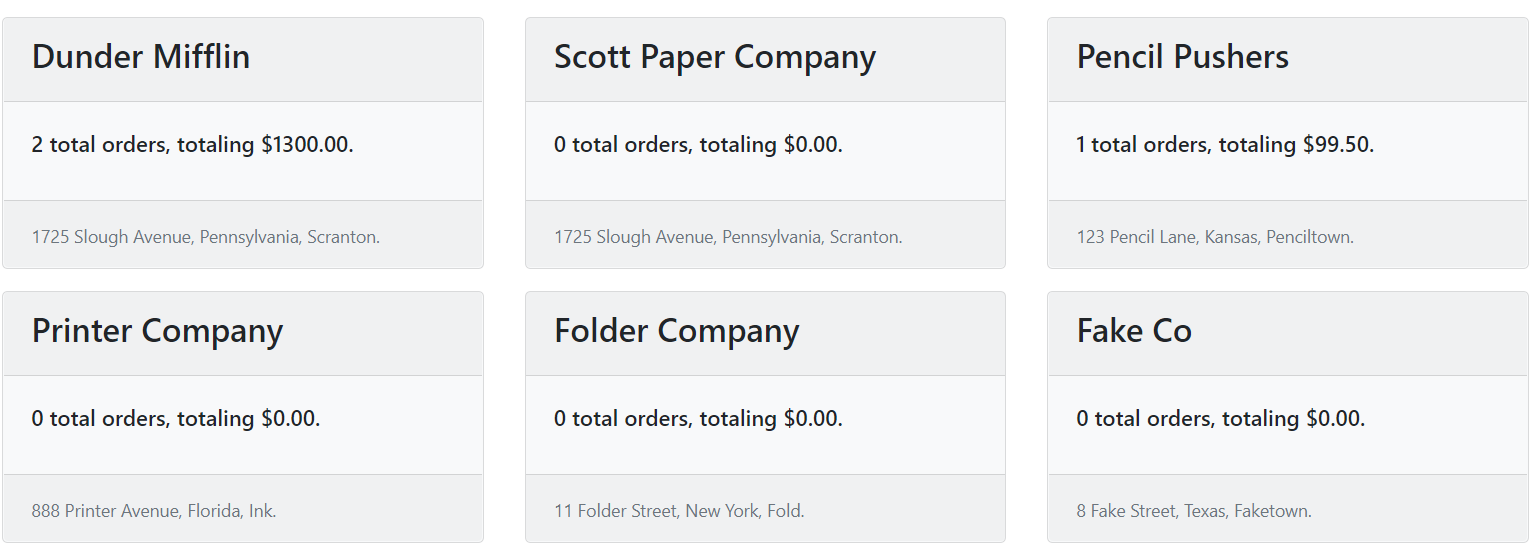
Cart Functionality:

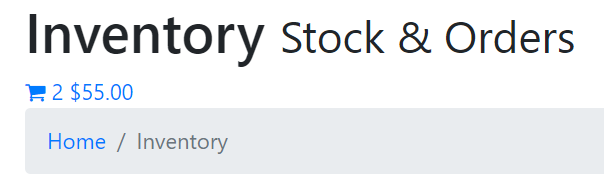
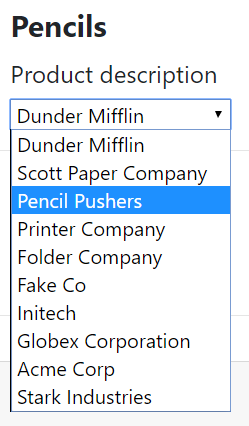
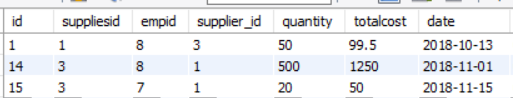


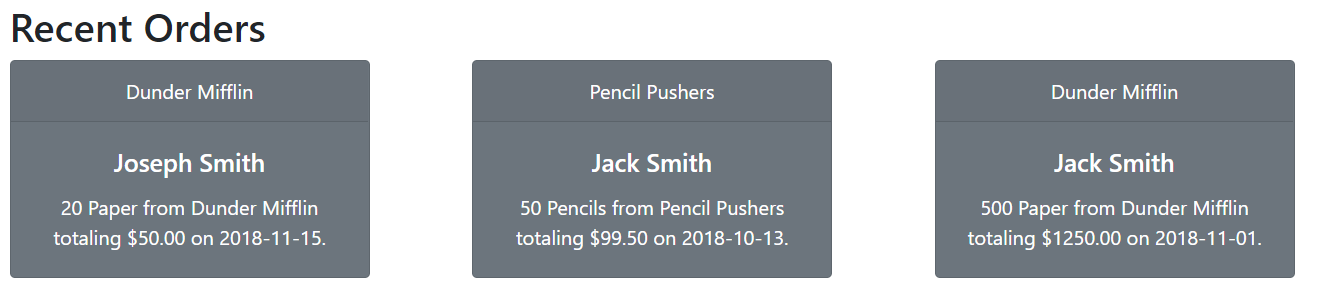
Admin Page:



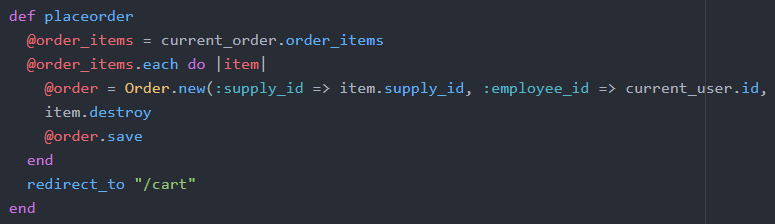
Query Page:



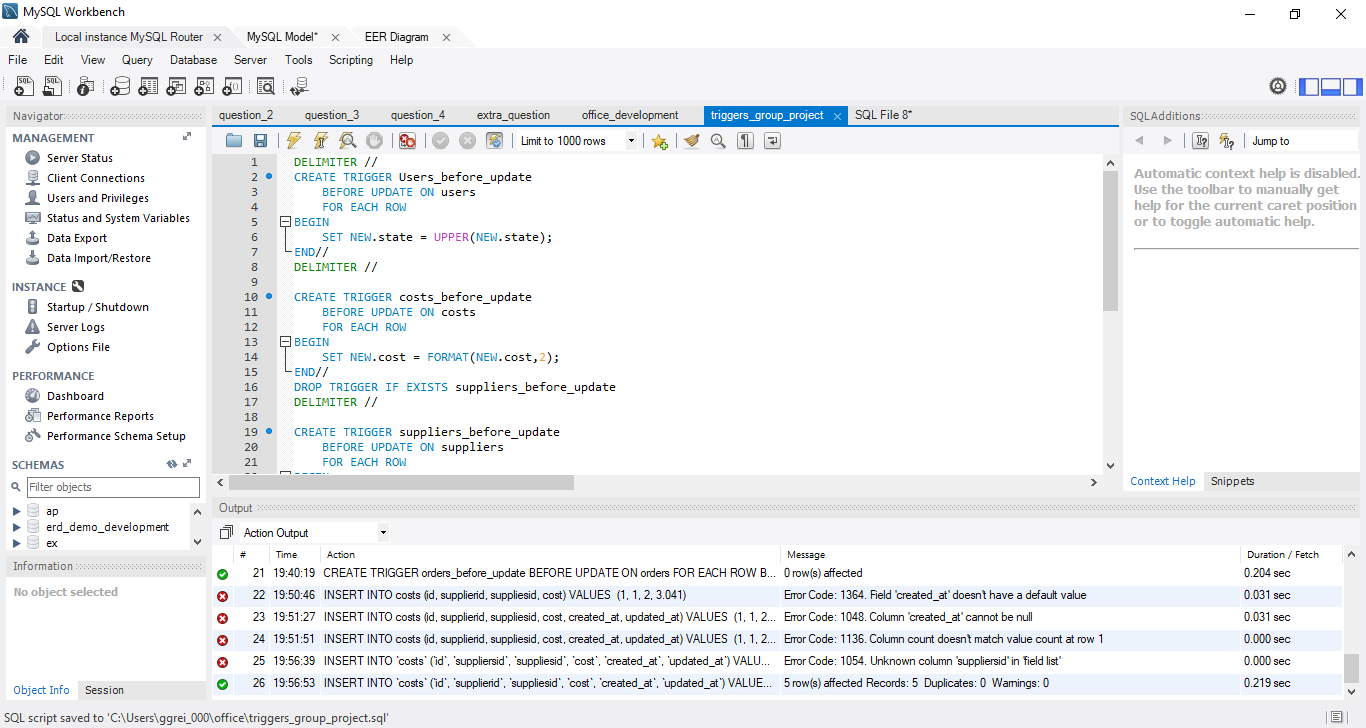
  



Order Functionality:

https://lh5.googleusercontent.com/DMZ3M6tWG9U5nqy5kgWYjBDd7zOstT8j-0Uyl2LVX5kKmVEpo8thg0Muia6558o1Pi44P9POJf0-BDVPADxo5sQ7jj2EM9fhZRZkI0TEo6xzh6du5qVF15LOZsnBEft7mbjh754td6Q

**TRIGGERS:**



Triggers correct mixed-case state names in the users and suppliers database and format float variables to 2 decimal places for cost in the costs table and total cost in the orders table.

**EVENTS:**

Event to update inventory every 12 hours:

