



University of Colombo School of Computing

Database II

Lab sheet- 3

Instructions

- Download the **.sql** file in the UGVLE and import the file to phpmyadmin.
 - Use the **salescompany** database to write SQL queries for each question.
 - Save your sql queries and result sets to a text document with the relevant question number.
 - Make sure you have saved the text file using your index number.
 - Then upload it to the UGVLE.
1. Once a customer makes a new purchase order, basic details regarding the purchase order should be inserted in the purchase_order table and the items in that purchase order should be inserted to the order_item table. Consider the below invoice.

Purchase Order Number : 542420 Customer ID : 88				
Order Date : 13 January 2020 Customer Name: Ms. Paula Parente				
Product ID	Product Name	Unit Price	Quantity	Total
14	Tofu	23.25	6 Packs	139.50
3	Aniseed Syrup	10.00	12 Bottles	120.00
13	Konbu	6.00	6 Boxes	36.00
Total				295.50

Create a trigger called '**orderItem_details**' to insert the products in above invoice to order_item table when the purchase order details are inserted to the purchase_order table.

Note: Go to the 'Structure' tab in the phpMyAdmin and change the structure of Primary Key (Id) as AUTO_INCREMENT in both purchase_order and order_item table and save the changes.

Further change the structure of OrderDate column in purchase_order table to save current system date & time. (Change 'Type' as TIMESTAMP and 'Default' as CURRENT_TIMESTAMP. Then Save the changes)

2. Before inserting a new record to the customer table, a trigger called '**validate_customer**' checks the column value of FirstName, LastName, and Country. If there are any space(s) before or after the FirstName, LastName and Country, triggers should use the TRIM() function to remove those space(s). The value of the Country should be converted to upper cases by UPPER() function.

First create the validate_customer trigger and then Insert the below row into customer table. Then check the FirstName, LastName and Country column in the customer table.

```
INSERT INTO customer VALUES (92,' Ana ', ' King', 'Oulu', ' Finland ', '981-447755');
```

3. Create a new table called '**AuditLog**' to record Audit Activities in '*salescompany*' database. Whenever a DML operation happens in the database, relevant audit records should be inserted to the AuditLog table. Consider only the update operation in Customer table and create the trigger '**AuditLog_customer**' that shows you the updated records in Customer table.