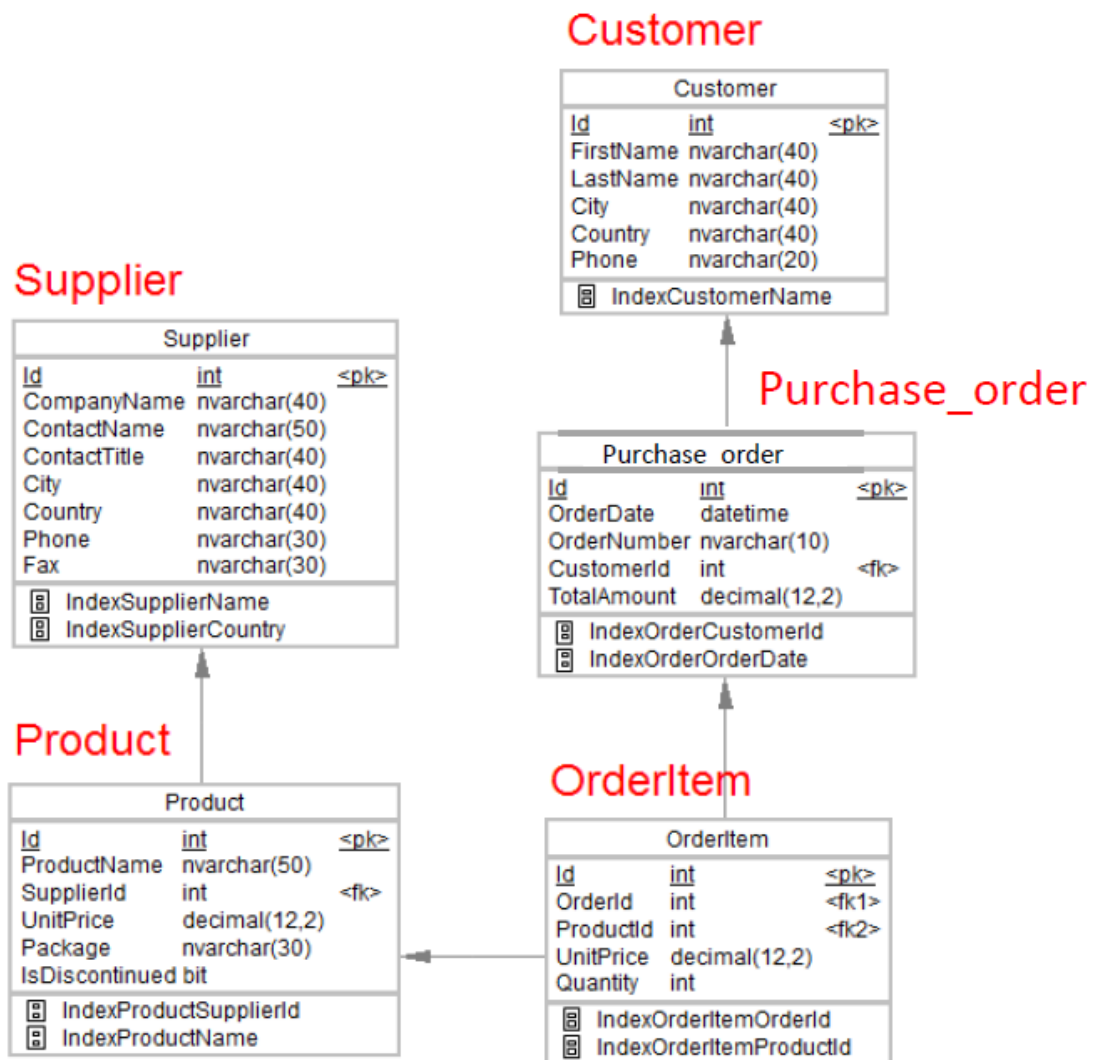# SCS 2209 - DATABASE II

**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.

**Exercise**

Consider the relational database for the **XYZ Sales Company** which contains details regarding their customers, suppliers, products, orders and items included in orders. The below ERD displays tables, columns, data types, relationships, primary keys, foreign keys, and indexes in the relational database.

## Customer

| Customer | | |
|---|---|---|
| Id | int | <pk> |
| FirstName | nvarchar(40) | |
| LastName | nvarchar(40) | |
| City | nvarchar(40) | |
| Country | nvarchar(40) | |
| Phone | nvarchar(20) | |
| 🗄 IndexCustomerName | | |

## Supplier

| Supplier | | |
|---|---|---|
| Id | int | <pk> |
| CompanyName | nvarchar(40) | |
| ContactName | nvarchar(50) | |
| ContactTitle | nvarchar(40) | |
| City | nvarchar(40) | |
| Country | nvarchar(40) | |
| Phone | nvarchar(30) | |
| Fax | nvarchar(30) | |
| 🗄 IndexSupplierName | | |
| 🗄 IndexSupplierCountry | | |

## Purchase_order

| Purchase_order | | |
|---|---|---|
| Id | int | <pk> |
| OrderDate | datetime | |
| OrderNumber | nvarchar(10) | |
| CustomerId | int | <fk> |
| TotalAmount | decimal(12,2) | |
| 🗄 IndexOrderCustomerId | | |
| 🗄 IndexOrderOrderDate | | |

## Product

| Product | | |
|---|---|---|
| Id | int | <pk> |
| ProductName | nvarchar(50) | |
| SupplierId | int | <fk> |
| UnitPrice | decimal(12,2) | |
| Package | nvarchar(30) | |
| IsDiscontinued bit | | |
| 🗄 IndexProductSupplierId | | |
| 🗄 IndexProductName | | |

## OrderItem

| OrderItem | | |
|---|---|---|
| Id | int | <pk> |
| OrderId | int | <fk1> |
| ProductId | int | <fk2> |
| UnitPrice | decimal(12,2) | |
| Quantity | int | |
| 🗄 IndexOrderItemOrderId | | |
| 🗄 IndexOrderItemProductId | | |

1. Recently customers from Sri Lanka have placed several purchase orders from the **XYZ Sales Company**. Mr.Alex Perera lives in Colombo is one such customer. His contact number is 077-1231234. Enter his details to the *Customer* table and *commit* the changes. Next examine the *Customer* table. Show that a new record has been created.

2. Mistakenly another record has been entered to the *Customer* tables where customer name is Mr.Alexian Fedrick lives in Chilaw and his contact number is 077-1112223. First enter this details to the *Customer* table. In this case the transaction has been rolled back and the record has not been created. Show that a new record has not been created.

3. Insert a new sales order into the Purchase order table. After that, insert sales order items into the order item table. Finally, commit the transaction using the COMMIT statement.

4. Delete all the purchase orders done by customer id whose id is "63" and then COMMIT the changes in the database. Show that a relevant record has been deleted.

5. Delete the supplier who supplies the product "Chai" and then ROLL BACK the changes in the database. Show that a new record has not been deleted.

6. Suddenly Customer Maria from Germany has changed her name to "Mary". Commit this change in the database and show that the name has been updated.

7. Customer Victoria Ashworth has called the store from (171) 888-5621 and company has decided to update her number on the database. But she states that she will continue keeping her previous number as well. Rollback this change in the database and show that no change has been done to the phone number.