

CSE 530 DATABASE MANAGEMENT SYSTEMS

LAB 2

Due Date: Sep. 30

In this lab, we will start using SQL statements to make queries and database maintenance. SQL Server is recommended for this lab. The "SQL Server Book Online" could be very helpful if you have any problem in using SQL Server or writing SQL statement.

The case we will use in this lab is based on the last lab. However, we made some modification to make things easier. We have 7 tables in this lab:

1. Customers

This table is used to store the information of the customers. It contains 9 columns, including:

customerID (varchar 10)
customerName (varchar 50)
customerType (varchar 10)
incorpDate_birthDate (datetime)
creditLimit (money)
numOfEmployees (int)
phone (varchar 50)
deliveryAddr (varchar 255)
paymentAddr (varchar 255)

2. Suppliers

This table is used to store the information of the suppliers. It contains 5 columns, including:

supplierID (int)
supplierName (varchar 50)
incorpDate (datetime)
phone (varchar 50)
address (varchar 255)

3. SalesOrderInfo

This table is used to store the basic information of the sales orders. It contains 5 columns, including:

salesOrderID (int)
customerID (varchar 10)
orderDate (datetime)
estDeliveryDate (datetime)
status (varchar)

4. SalesOrderDetails

This table is used to store the detailed information of the sales orders. It contains 5 columns, including:

salesOrderID (int)

productID (int)

discount (decimal(10,3))

quantity (int)

price (money)

5. Products

This table is used to store the detailed information of the sales orders. It contains 6 columns, including:

productID (int)

productName (varchar 50)

supplierID (int)

quantityPerUnit (int)

quantityInStock (int)

price (money)

6. PurchaseOrderInfo

This table is used to store the basic information of the purchase orders. It contains 5 columns, including:

purchaseOrderID (int)

supplierID (int)

orderDate (datetime)

reuiiredDate (datetime)

status (varchar)

7. PurchaseOrderDetails

This table is used to store the detailed information of the purchase orders. It contains 4 columns, including:

purchaseOrderID (int)

productID (int)

quantity (int)

price (money)

Questions:

Part I. SQL Query

1. Import the data from LAB2.xls to database. Each sheet of the .xls file represents a table. You may either create data schema before import data, or choose proper data type for each column when importing data.
2. (5 points) Identify primary key and foreign key for each table and create them on tables.

