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CIS336: Course Project – Commerce Business – Kitoko Fashions

Week 5

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Kitoko Fashions - Business narrative

“Kitoko Fashions” is online retailer store for boutique clothing products. Usually textile factories create extra items for every order and these remaining items are either discarded or recycled. We purchase these extra items from factories and sell them on internet for cheap price. Products are directly shipped from our own warehouse.

System Users

Following are system users:

- Managers, checking reports for sales, inventory etc.
- Employees, receiving orders and adding shipment details
- Customers, placing order from online website

Products

Following are major product categories:

- Men's wear
 - Tees
 - Jackets
 - Denim
- Women's wear
 - Tees
 - Jackets
 - Sleepwear
 - Denim
- Kids & Teens
 - Tees
 - Infants
 - Sweat pants and shorts
 - Sleepwear
 - Denim
- Home (& Bed)
 - Bed sheets
 - Pillow covers
 - Cushions covers

Suppliers

Textile exporters are the suppliers, Suppliers provides the products which are sold online to customers

Customers

- Online Customers, customers who register and order online
- Phone Order customers, customers who order by phone and are registered in system by employees

Payment Methods

Following payment methods are supported in system:

- PayPal
- Cash on delivery

Order Mechanism

- Placing order online on website, Customer can select the products from website and place order
- Ordering on phone, Customers can call between 10 AM to 5 PM (Monday-Friday) for orders.

Products Delivery

Order are delivered via leading courier to customer's doorstep. If payment mode is "Cash on Delivery", the courier will collect the money and deliver the package to customer. Order is normally delivered within 2-4 working days.

Currently orders are only delivered within US and no international shipments are made.

Online order tracking

Customers gets order update via emails. *Order confirmation email* containing details of product purchased is sent to customer. *Order tracking email* is sent on shipment with tracking details.

System Reports

Following reports are generate for the management:

- Sales report
- Inventory report
- Pending Shipments
- Suppliers report

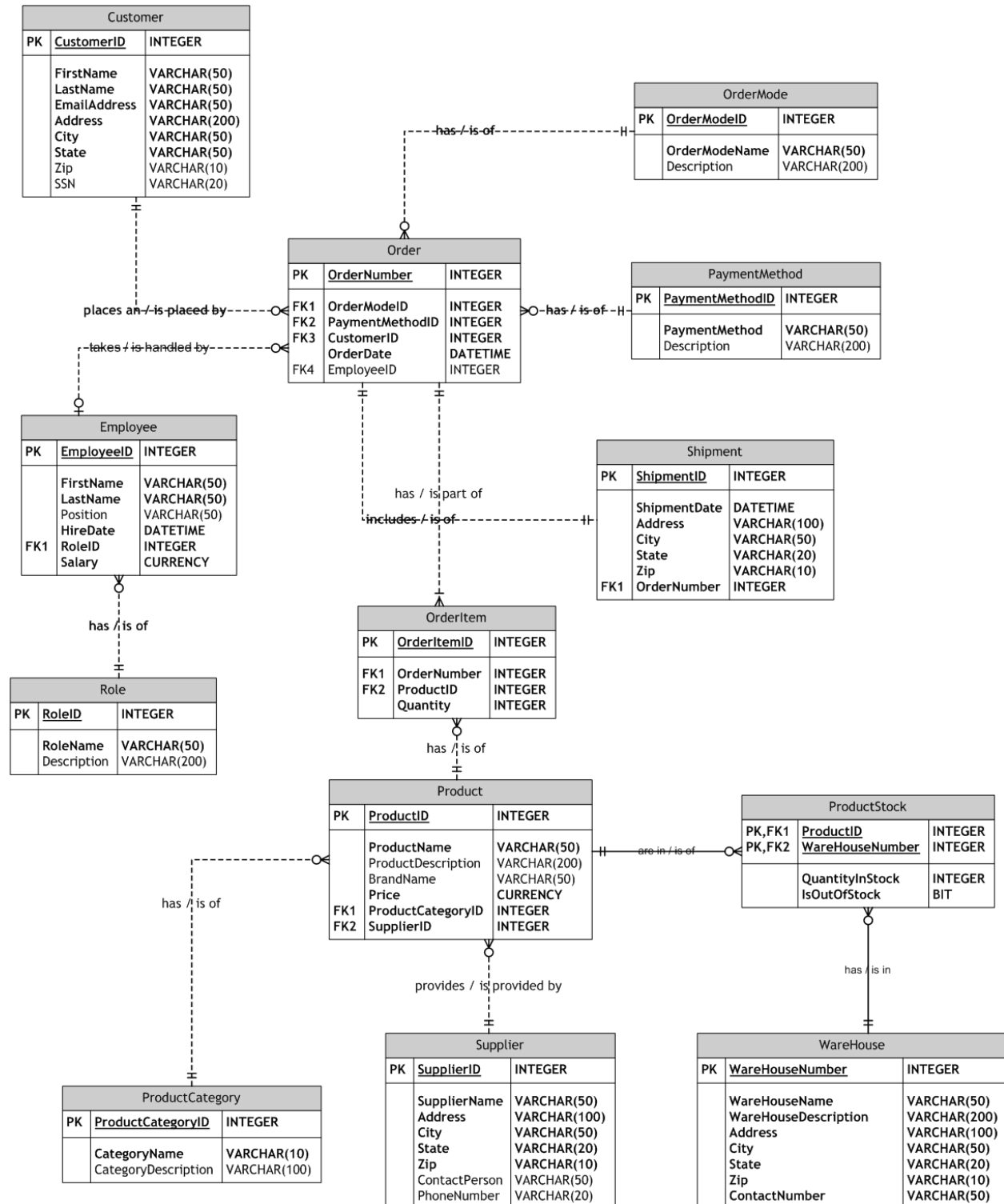
Data Dictionary

| Table Name | Attribute Name | Data Description | Data Type | Length | Required? | PK or FK? | FK Referenced Table | Default | CHECK |
|-----------------|----------------------|--|-----------|--------|-----------|-----------|--------------------------|---------|-------|
| Customer | CustomerID | Uniquely identifies customer record | INTEGER | | YES | PK | | | |
| | FirstName | Customer last name | VARCHAR | 50 | YES | | | | |
| | LastName | Customer first name | VARCHAR | 50 | YES | | | | |
| | EmailAddress | Customer email address | VARCHAR | 50 | YES | | | | |
| | Address | Customer address | VARCHAR | 200 | YES | | | | |
| | City | Customer city | VARCHAR | 50 | YES | | | | |
| | State | Customer state | VARCHAR | 50 | YES | | | | |
| | Zip | Customer zip code | VARCHAR | 10 | | | | | |
| | SSN | Customer SSN | VARCHAR | 20 | | | | | |
| Order | OrderNumber | Uniquely identifies Order record | INTEGER | | YES | PK | | | |
| | OrderModeID | Order Mode ID | INTEGER | | YES | FK | OrderMode | | |
| | PaymentMethodID | Payment Method ID | INTEGER | | YES | FK | PaymentMethod | | |
| | CustomerID | Customer ID | INTEGER | | YES | FK | Customer | | |
| | OrderDate | Order Date | DATETIME | | YES | | | | |
| OrderItem | OrderItemID | Uniquely identifies OrderItem record | INTEGER | | YES | PK | | | |
| | OrderNumber | Order Number | INTEGER | | YES | FK | Order Product | | |
| | ProductID | Product ID | INTEGER | | YES | FK | | | |
| | Quantity | Quantity ordered | INTEGER | | YES | | | | |
| | SellingPrice | Selling Price | CURRENCY | | YES | | | | |
| OrderMode | OrderModeID | Uniquely identifies billing record | INTEGER | | YES | PK | | | |
| | OrderModeName | Order mode name | VARCHAR | 50 | YES | | | | |
| | Description | Description of order mode | VARCHAR | 200 | | | | | |
| PaymentMethod | PaymentMethodID | Uniquely identifies PaymentMethod record | INTEGER | | YES | PK | | | |
| | PaymentMethod | Payment Method | VARCHAR | 50 | YES | | | | |
| | Description | Description of payment method | VARCHAR | 200 | | | | | |
| Product | ProductID | Uniquely identifies Product record | INTEGER | | YES | PK | | | |
| | ProductName | Product Name | VARCHAR | 50 | YES | | | | |
| | ProductDescription | Product Description | VARCHAR | 200 | | | | | |
| | BrandName | Brand Name of product | VARCHAR | 50 | | | | | |
| | Price | Price | CURRENCY | | YES | | | | |
| | ProductCategoryID | Product Category ID | INTEGER | | YES | | ProdcutCategory Supplier | | |
| | SupplierID | Supplier ID | INTEGER | | YES | FK | | | |
| ProductCategory | ProductCategoryID | Uniquely identifies ProductCategory record | INTEGER | | YES | PK | | | |
| | CategoryName | Category Name | VARCHAR | 50 | YES | | | | |
| | CategoryDescription | Category Description | VARCHAR | 200 | | | | | |
| Supplier | SupplierID | Uniquely identifies rating record | INTEGER | | YES | PK | | | |
| | SupplierName | Rating code | VARCHAR | 50 | YES | | | | |
| | Address | Supplier address | VARCHAR | 100 | YES | | | | |
| | City | Supplier City | VARCHAR | 50 | YES | | | | |
| | State | Supplier State | VARCHAR | 20 | YES | | | | |
| | Zip | Supplier Zip code | VARCHAR | 10 | YES | | | | |
| | ContactPerson | Supplier's Contact person | VARCHAR | 50 | | | | | |
| | PhoneNumber | Supplier's phone number | VARCHAR | 20 | | | | | |
| ProductStock | ProductID | Uniquely identifies ProductStock record | INTEGER | | YES | PK & FK | Product | | |
| | WareHouseNumber | Uniquely identifies ProductStock record | INTEGER | | YES | PK & FK | WareHouse | | |
| | QuantityInStock | Quantity of product in stock | INTEGER | | YES | | | | |
| | IsOutOfStock | Is prodcut out of stock? | BIT | | YES | | | FALSE | |
| WareHouse | WareHouseNumber | Uniquely identified WareHouse record | INTEGER | | YES | PK | | | |
| | WareHouseName | Name of warehouse | VARCHAR | 50 | YES | | | | |
| | WareHouseDescription | WareHouse Description | VARCHAR | 200 | | | | | |
| | Address | Address | VARCHAR | 100 | YES | | | | |
| | City | City of warehouse | VARCHAR | 50 | YES | | | | |
| | State | State of warehouse | VARCHAR | 20 | YES | | | | |
| | Zip | Zip code of warehouse | VARCHAR | 10 | YES | | | | |

Data Dictionary Cont.

| | | | | | | | | | |
|-----------------|-------------------|--|----------------|-----|------------|-----------|--------------|--|--|
| Employee | EmployeeID | Uniquely identifies Employee record | INTEGER | | YES | PK | | | |
| | FirstName | Employee First Name | VARCHAR | 50 | YES | | | | |
| | LastName | Employee Last Name | VARCHAR | 50 | YES | | | | |
| | Position | Position of employee | VARCHAR | 50 | | | | | |
| | HireDate | Hiring date of employee | DATETIME | | YES | | | | |
| | RoleID | Role ID of employee | INTEGER | | YES | FK | Role | | |
| | Salary | Employee Last Name | CURRENCY | | YES | | | | |
| Role | RoleID | Uniquely identifies Role record | INTEGER | | YES | PK | | | |
| | RoleName | Role name | VARCHAR | 50 | YES | | | | |
| | Description | Description of role | VARCHAR | 200 | | | | | |
| Shipment | ShipmentID | Uniquely identifies Shipment record | INTEGER | | YES | PK | | | |
| | ShipmentDate | Shipment date | DATETIME | | YES | | | | |
| | Address | Address | VARCHAR | 100 | YES | | | | |
| | City | City for shipment | VARCHAR | 50 | YES | | | | |
| | State | State for shipment | VARCHAR | 20 | YES | | | | |
| | Zip | Zip code for shipment | VARCHAR | 10 | YES | | | | |
| | OrderNumber | Order number of Shipment | VARCHAR | 10 | YES | FK | Order | | |

Kitoko Fashions – Entity Relationship Diagram (ERD)



Tables Structure and Data Screenshots

1. Customer

| | Field | Type | Null | Key | Default | Extra |
|---|--------------|--------------|------|-----|-------------|----------------|
| ► | CustomerID | int(11) | NO | PRI | NULL | auto_increment |
| | FirstName | varchar(50) | NO | | NULL | |
| | LastName | varchar(50) | NO | | NULL | |
| | EmailAddress | varchar(50) | NO | | NULL | |
| | Address | varchar(200) | NO | | NULL | |
| | City | varchar(50) | NO | | NULL | |
| | State | varchar(50) | NO | | NULL | |
| | Zip | varchar(10) | YES | | NULL | |
| | SSN | varchar(20) | YES | | NULL | |

| | CustomerID | FirstName | LastName | EmailAddress | Address | City | State | Zip | SSN |
|---|------------|-----------|----------|------------------------|-----------------|---------------|-------|-------|-------------|
| ► | 1 | Fernand | Hanks | fernandhanks@gmail.com | 100 East 87th | New York | NY | 10011 | 111-00-1010 |
| | 2 | Nina | Hanks | fernandhanks@gmail.com | 210 West 101st | New York | NY | 10035 | 111-00-1010 |
| | 3 | Gary | Morris | fernandhanks@gmail.com | 11 Sixth Ave | New York | NY | 10025 | 111-00-1010 |
| | 4 | Anita | Smythe | fernandhanks@gmail.com | 100 Maiden Lane | Richmond Hill | NY | 9011 | 111-00-1010 |
| | 5 | Marilyn | Frantzen | fernandhanks@gmail.com | 109 Bleeker | Jamaica | NY | 89011 | 111-00-1010 |

2. Employee

| | EmployeeID | FirstName | LastName | Position | HireDate | RoleID | Salary |
|---|------------|-----------|----------|-----------------|---------------------|--------|----------|
| ▶ | 1 | Sernand | Ganks | CEO | 2014-01-01 00:00:00 | 1 | 25000.00 |
| | 2 | Bash | Crain | Manager | 2014-02-01 00:00:00 | 2 | 15000.00 |
| | 3 | Simran | Rathore | OrderManager | 2014-12-01 00:00:00 | 3 | 6000.00 |
| | 4 | James | Cameron | ShipmentHandler | 2014-12-01 00:00:00 | 3 | 6000.00 |
| | 5 | Marilyn | Toosi | Cash | 2015-01-01 00:00:00 | 4 | 5000.00 |
| | 6 | Sara | Tenkradi | Employee | 2015-05-01 00:00:00 | 5 | 4000.00 |

| | Field | Type | Null | Key | Default | Extra |
|---|------------|---------------|------|-----|---------|----------------|
| ▶ | EmployeeID | int(11) | NO | PRI | NULL | auto_increment |
| | FirstName | varchar(50) | NO | | NULL | |
| | LastName | varchar(50) | NO | | NULL | |
| | Position | varchar(50) | YES | | NULL | |
| | HireDate | datetime | NO | | NULL | |
| | RoleID | int(11) | NO | MUL | NULL | |
| | Salary | decimal(10,2) | NO | | NULL | |

3. Orders

| | OrderNumber | OrderModeID | PaymentMethodID | CustomerID | OrderDate |
|---|-------------|-------------|-----------------|------------|---------------------|
| ▶ | 1 | 1 | 1 | 1 | 2105-01-01 00:00:00 |
| | 2 | 1 | 2 | 1 | 2106-01-01 00:00:00 |
| | 3 | 2 | 1 | 2 | 2105-02-01 00:00:00 |
| | 4 | 1 | 2 | 3 | 2105-03-03 00:00:00 |
| | 5 | 2 | 1 | 4 | 2106-01-12 00:00:00 |
| | 6 | 1 | 2 | 3 | 2105-11-11 00:00:00 |
| | 7 | 2 | 1 | 5 | 2105-12-09 00:00:00 |

| | Field | Type | Null | Key | Default | Extra |
|---|-----------------|----------|------|-----|---------|----------------|
| ▶ | OrderNumber | int(11) | NO | PRI | NULL | auto_increment |
| | OrderModeID | int(11) | NO | MUL | NULL | |
| | PaymentMethodID | int(11) | NO | MUL | NULL | |
| | CustomerID | int(11) | NO | MUL | NULL | |
| | OrderDate | datetime | NO | | NULL | |

4. OrderItem

| | OrderItemID | OrderNumber | ProductID | Quantity | SellingPrice |
|---|-------------|-------------|-----------|----------|--------------|
| | 1 | 1 | 1 | 3 | 50.00 |
| | 2 | 1 | 2 | 1 | 60.00 |
| | 3 | 1 | 9 | 2 | 70.00 |
| | 4 | 2 | 2 | 2 | 30.00 |
| | 5 | 2 | 4 | 1 | 50.00 |
| | 6 | 2 | 7 | 2 | 60.00 |
| | 7 | 3 | 2 | 1 | 50.00 |
| | 8 | 3 | 10 | 1 | 70.00 |
| | 9 | 3 | 6 | 1 | 60.00 |
| ▶ | 10 | 4 | 7 | 2 | 50.00 |
| | 11 | 5 | 7 | 2 | 40.00 |
| | 12 | 6 | 9 | 2 | 30.00 |
| | 13 | 7 | 8 | 1 | 40.00 |
| ★ | NULL | NULL | NULL | NULL | NULL |

| | Field | Type | Null | Key | Default | Extra |
|---|--------------|---------------|------|-----|---------|----------------|
| ▶ | OrderItemID | int(11) | NO | PRI | NULL | auto_increment |
| | OrderNumber | int(11) | NO | MUL | NULL | |
| | ProductID | int(11) | NO | MUL | NULL | |
| | Quantity | int(11) | NO | | NULL | |
| | SellingPrice | decimal(10,2) | NO | | NULL | |

5. OrderMode

| | OrderModeID | OrderModeName | Description |
|---|-------------|---------------|---------------------------------|
| ▶ | 1 | OnlineOrder | Placing order online on website |
| | 2 | PhoneOrder | Ordering on phone |

| | Field | Type | Null | Key | Default | Extra |
|---|---------------|--------------|------|-----|---------|----------------|
| ▶ | OrderModeID | int(11) | NO | PRI | NULL | auto_increment |
| | OrderModeName | varchar(50) | NO | | NULL | |
| | Description | varchar(200) | YES | | NULL | |

6. Product

| | ProductID | ProductName | ProductDescription | BrandName | Price | ProductCategoryID | SupplierID |
|---|-----------|---------------|-------------------------|------------|--------|-------------------|------------|
| ► | 1 | Shirt | T Shirt | Youngs | 50.00 | 1 | 1 |
| | 2 | Trouser | Trouser | Outfitters | 75.00 | 1 | 1 |
| | 3 | Jackets | Women jacket | Outfitters | 135.00 | 2 | 1 |
| | 4 | Sleepwear | Sleepwear for him n her | Comfy | 60.00 | 2 | 2 |
| | 5 | Denim | Denim for all | Outfitters | 75.00 | 3 | 3 |
| | 6 | Tees | Grphic tees | Stone Age | 40.00 | 3 | 3 |
| | 7 | Sweatpants | Sweatpants | CK | 35.00 | 4 | 4 |
| | 8 | Shorts | Casual shorts | Kids | 90.00 | 4 | 4 |
| | 9 | Pillow Covers | hand made pillow covers | Bed | 70.00 | 5 | 5 |
| | 10 | BedSheet | Cotton bedsheet | H&M | 130.00 | 5 | 5 |

| | Field | Type | Null | Key | Default | Extra |
|---|--------------------|---------------|------|-----|---------|----------------|
| ► | ProductID | int(11) | NO | PRI | NULL | auto_increment |
| | ProductName | varchar(50) | NO | | NULL | |
| | ProductDescription | varchar(200) | YES | | NULL | |
| | BrandName | varchar(200) | YES | | NULL | |
| | Price | decimal(10,2) | NO | | NULL | |
| | ProductCategoryID | int(11) | NO | MUL | NULL | |
| | SupplierID | int(11) | NO | MUL | NULL | |

7. PaymentMethod

| | PaymentMethodID | PaymentMethodName | Description |
|---|-----------------|-------------------|----------------------------------|
| ► | 1 | PayPal | Pay using PayPal |
| | 2 | CashOnDelivery | Pay cash when order is delivered |

| | Field | Type | Null | Key | Default | Extra |
|---|-------------------|--------------|------|-----|---------|----------------|
| ► | PaymentMethodID | int(11) | NO | PRI | NULL | auto_increment |
| | PaymentMethodName | varchar(50) | NO | | NULL | |
| | Description | varchar(200) | YES | | NULL | |

8. ProductCategory

| | ProductCategoryID | CategoryName | CategoryDescription |
|---|-------------------|--------------|---------------------------------|
| ► | 1 | Men | Mens wear |
| | 2 | Women | Wommens wear |
| | 3 | Kids | Kids wear |
| | 4 | Teens | Teens wear |
| | 5 | Home | Home & Bedding related products |

| | Field | Type | Null | Key | Default | Extra |
|---|---------------------|--------------|------|-----|---------|----------------|
| ► | ProductCategoryID | int(11) | NO | PRI | NULL | auto_increment |
| | CategoryName | varchar(50) | NO | | NULL | |
| | CategoryDescription | varchar(200) | YES | | NULL | |

9. Shipment

| | ShipmentID | ShipmentDate | Address | City | State | Zip | OrderNumber |
|---|------------|---------------------|-----------------|---------------|-------|-------|-------------|
| ► | 1 | 2105-01-01 00:00:00 | 100 East 87th | New York | NY | 100 | 1 |
| | 2 | 2106-01-01 00:00:00 | 210 West 101st | New York | NY | 10098 | 2 |
| | 3 | 2105-02-01 00:00:00 | 1st Lane | Richmond Hill | NY | 10927 | 3 |
| | 4 | 2105-03-03 00:00:00 | 103 Main Street | New Jersey | NJ | 34567 | 4 |
| | 5 | 2106-01-12 00:00:00 | 109 Bleeker | Jamaica | NY | 10010 | 5 |
| | 6 | 2105-11-11 00:00:00 | 11 Sixth Ave | New York | NY | 10035 | 1 |
| | 7 | 2105-12-09 00:00:00 | 100 Maiden Lane | Richmond Hill | CA | 89001 | 1 |

| | Field | Type | Null | Key | Default | Extra |
|---|--------------|--------------|------|-----|---------|----------------|
| ► | ShipmentID | int(11) | NO | PRI | NULL | auto_increment |
| | ShipmentDate | datetime | NO | | NULL | |
| | Address | varchar(200) | NO | | NULL | |
| | City | varchar(50) | NO | | NULL | |
| | State | varchar(50) | NO | | NULL | |
| | Zip | varchar(10) | NO | | NULL | |
| | OrderNumber | int(11) | NO | MUL | NULL | |

10. Role

| | RoleID | RoleName | Description |
|---|--------|----------|------------------------------------|
| ► | 1 | CEO | Chief executive officer |
| | 2 | Manager | Staff Manager |
| | 3 | Employee | Employee handles the orders |
| | 4 | Cashier | Employee handles the cash payments |
| | 5 | Employee | Employee handles the orders |

| | Field | Type | Null | Key | Default | Extra |
|---|-------------|--------------|------|-----|---------|----------------|
| ► | RoleID | int(11) | NO | PRI | NULL | auto_increment |
| | RoleName | varchar(50) | NO | | NULL | |
| | Description | varchar(200) | YES | | NULL | |

11. Supplier

| | SupplierID | SupplierName | Address | City | State | Zip | SSN | ContactPerson | PhoneNumber |
|---|------------|--------------|--------------------|------------|-------|-----|-----------------|---------------|------------------|
| ► | 1 | Outfitters | 1 Mall | California | CA | 100 | 018-01-001 | Jhon, Berry | (101) 21 11345 |
| | 2 | He&She | 212 Downing Street | New York | NY | 101 | 1-1-1 | Alex, Bonita | (101) 21 11345 |
| | 3 | MensFav | Jersy city | New Jersey | NJ | 102 | 2-2-1 | Lim, Kim | (101) 21 11345 |
| | 4 | Kidco | 109 Bleeker | Jamaica | CA | 103 | 901-01-112 | Barbar, White | (101) 21 11345 |
| | 5 | Home | 317 Main Boluvard | New Jersey | NJ | 104 | 101-889-8989898 | Tom, Taseer | (231) 88 9081976 |

| | Field | Type | Null | Key | Default | Extra |
|---|---------------|--------------|------|-----|---------|----------------|
| ► | SupplierID | int(11) | NO | PRI | NULL | auto_increment |
| | SupplierName | varchar(50) | NO | | NULL | |
| | Address | varchar(200) | NO | | NULL | |
| | City | varchar(50) | NO | | NULL | |
| | State | varchar(50) | NO | | NULL | |
| | Zip | varchar(10) | NO | | NULL | |
| | SSN | varchar(20) | YES | | NULL | |
| | ContactPerson | varchar(50) | YES | | NULL | |
| | PhoneNumber | varchar(20) | YES | | NULL | |

12. ProductStock

| | ProductID | WareHouseNumber | QuantityInStock | IsOutOfStock |
|---|-----------|-----------------|-----------------|--------------|
| ▶ | 1 | 1 | 100 | 0 |
| | 2 | 1 | 330 | 0 |
| | 3 | 1 | 77 | 0 |
| | 4 | 1 | 89 | 0 |
| | 5 | 1 | 23 | 0 |
| | 6 | 1 | 9 | 0 |
| | 7 | 1 | 130 | 0 |
| | 8 | 1 | 350 | 0 |
| | 9 | 1 | 331 | 0 |
| | 10 | 1 | 401 | 0 |

| | Field | Type | Null | Key | Default | Extra |
|---|-----------------|---------|------|-----|---------|----------------|
| ▶ | ProductID | int(11) | NO | PRI | NULL | auto_increment |
| | WareHouseNumber | int(11) | NO | PRI | NULL | |
| | QuantityInStock | int(11) | NO | | NULL | |
| | IsOutOfStock | bit(1) | NO | | NULL | |

13. Warehouse

| | ProductID | WareHouseNumber | QuantityInStock | IsOutOfStock |
|---|-----------|-----------------|-----------------|--------------|
| ▶ | 1 | 1 | 100 | 0 |
| | 2 | 1 | 330 | 0 |
| | 3 | 1 | 77 | 0 |
| | 4 | 1 | 89 | 0 |
| | 5 | 1 | 23 | 0 |
| | 6 | 1 | 9 | 0 |
| | 7 | 1 | 130 | 0 |
| | 8 | 1 | 350 | 0 |
| | 9 | 1 | 331 | 0 |
| | 10 | 1 | 401 | 0 |

| | Field | Type | Null | Key | Default | Extra |
|---|-----------------|---------|------|-----|---------|----------------|
| ▶ | ProductID | int(11) | NO | PRI | NULL | auto_increment |
| | WareHouseNumber | int(11) | NO | PRI | NULL | |
| | QuantityInStock | int(11) | NO | | NULL | |
| | IsOutOfStock | bit(1) | NO | | NULL | |

Tables Structure and Data Script

##DROP all tables

DROP TABLE IF EXISTS Shipment;

DROP TABLE IF EXISTS Employee;

DROP TABLE IF EXISTS Roles;

DROP TABLE IF EXISTS ProductStock;

DROP TABLE IF EXISTS WareHouse;

DROP TABLE IF EXISTS OrderItem;

DROP TABLE IF EXISTS Product;

DROP TABLE IF EXISTS Supplier;

DROP TABLE IF EXISTS ProductCategory;

DROP TABLE IF EXISTS Orders;

DROP TABLE IF EXISTS PaymentMethod;

DROP TABLE IF EXISTS OrderMode;

DROP TABLE IF EXISTS Customer;

##CREATE all tables with constraints

CREATE TABLE Customer

(

 CustomerID INT NOT NULL AUTO_INCREMENT,

 FirstName VARCHAR(50) NOT NULL,

 LastName VARCHAR(50) NOT NULL,

 EmailAddress VARCHAR(50) NOT NULL,

 Address VARCHAR(200) NOT NULL,

 City VARCHAR(50) NOT NULL,

 State VARCHAR(50) NOT NULL,

 Zip VARCHAR(10),

 SSN VARCHAR(20),

CONSTRAINT Customer_PK

PRIMARY KEY (CustomerID)

);

CREATE TABLE OrderMode

(

OrderModeID INT NOT NULL AUTO_INCREMENT,

OrderModeName VARCHAR(50) NOT NULL,

Description VARCHAR(200),

CONSTRAINT OrderMode_PK

PRIMARY KEY (OrderModeID)

);

CREATE TABLE PaymentMethod

(

PaymentMethodID INT NOT NULL AUTO_INCREMENT,

PaymentMethodName VARCHAR(50) NOT NULL,

Description VARCHAR(200),

CONSTRAINT PaymentMethod_PK

PRIMARY KEY (PaymentMethodID)

);

CREATE TABLE Orders

(

OrderNumber INT NOT NULL AUTO_INCREMENT,

OrderModeID INT NOT NULL,

PaymentMethodID INT NOT NULL,

CustomerID INT NOT NULL,

OrderDate DATETIME NOT NULL,

CONSTRAINT Order_PK

PRIMARY KEY (OrderNumber),

CONSTRAINT Order_FK_OrderMode

FOREIGN KEY (OrderModeID) REFERENCES OrderMode (OrderModeID),

CONSTRAINT Order_FK_Customer

FOREIGN KEY (CustomerID) REFERENCES Customer (CustomerID),

CONSTRAINT Order_FK_PaymentMethod

FOREIGN KEY (PaymentMethodID) REFERENCES PaymentMethod (PaymentMethodID)

);

CREATE TABLE ProductCategory

(

ProductCategoryID INT NOT NULL AUTO_INCREMENT,

CategoryName VARCHAR(50) NOT NULL,

CategoryDescription VARCHAR(200),

CONSTRAINT ProductCategory_PK

PRIMARY KEY (ProductCategoryID)

);

CREATE TABLE Supplier

(

SupplierID INT NOT NULL AUTO_INCREMENT,

SupplierName VARCHAR(50) NOT NULL,

Address VARCHAR(200) NOT NULL,

City VARCHAR(50) NOT NULL,
State VARCHAR(50) NOT NULL,
Zip VARCHAR(10) NOT NULL,
SSN VARCHAR(20),
ContactPerson VARCHAR(50),
PhoneNumber VARCHAR(20),

CONSTRAINT Supplier_PK

PRIMARY KEY (SupplierID)

);

CREATE TABLE Product

(

ProductID INT NOT NULL AUTO_INCREMENT,
ProductName VARCHAR(50) NOT NULL,
ProductDescription VARCHAR(200),
BrandName VARCHAR(200),
Price DECIMAL(10,2) NOT NULL,
ProductCategoryID INT NOT NULL,
SupplierID INT NOT NULL,

CONSTRAINT Product_PK

PRIMARY KEY (ProductID),

CONSTRAINT Product_FK_ProductCategory

FOREIGN KEY (ProductCategoryID) REFERENCES ProductCategory(ProductCategoryID),

CONSTRAINT Supplier_FK_Product

FOREIGN KEY (SupplierID) REFERENCES Supplier(SupplierID)

);

CREATE TABLE OrderItem

(
 OrderItemID INT NOT NULL AUTO_INCREMENT,
 OrderNumber INT NOT NULL,
 ProductID INT NOT NULL,
 Quantity INT NOT NULL,
 SellingPrice DECIMAL(10,2) NOT NULL,

CONSTRAINT OrderItem_PK

PRIMARY KEY (OrderItemID),

CONSTRAINT OrderItem_FK_Order

FOREIGN KEY (OrderNumber) REFERENCES Orders(OrderNumber),

CONSTRAINT OrderItem_FK_Product

FOREIGN KEY (ProductID) REFERENCES Product(ProductID)

);

CREATE TABLE WareHouse

(
 WareHouseNumber INT NOT NULL AUTO_INCREMENT,
 WareHouseName VARCHAR(50) NOT NULL,
 WareHouseDescription VARCHAR(200),
 City VARCHAR(50) NOT NULL,
 State VARCHAR(50) NOT NULL,
 Zip VARCHAR(10) NOT NULL,

CONSTRAINT WareHouse_PK

PRIMARY KEY (WareHouseNumber)

);

CREATE TABLE ProductStock

(

ProductID INT NOT NULL AUTO_INCREMENT,

WareHouseNumber INT NOT NULL,

QuantityInStock INT NOT NULL,

IsOutOfStock BIT NOT NULL,

CONSTRAINT ProductStock_PK

PRIMARY KEY (ProductID, WareHouseNumber),

CONSTRAINT ProductStock_FK_Product

FOREIGN KEY (ProductID) REFERENCES Product(ProductID),

CONSTRAINT ProductStock_FK_WareHouse

FOREIGN KEY (WareHouseNumber) REFERENCES WareHouse(WareHouseNumber)

);

CREATE TABLE Roles

(

RoleID INT NOT NULL AUTO_INCREMENT,

RoleName VARCHAR(50) NOT NULL,

Description VARCHAR(200),

CONSTRAINT Role_PK

PRIMARY KEY (RoleID)

);

CREATE TABLE Employee

```
(
    EmployeeID INT NOT NULL AUTO_INCREMENT,
    FirstName VARCHAR(50) NOT NULL,
    LastName VARCHAR(50) NOT NULL,
    Position VARCHAR(50),
    HireDate DATETIME NOT NULL,
    RoleID INT NOT NULL,
    Salary DECIMAL(10,2) NOT NULL,

CONSTRAINT Employee_PK
    PRIMARY KEY (EmployeeID),
CONSTRAINT Employee_FK_Role
    FOREIGN KEY (RoleID) REFERENCES Roles(RoleID)
);

CREATE TABLE Shipment
(
    ShipmentID INT NOT NULL AUTO_INCREMENT,
    ShipmentDate DATETIME NOT NULL,
    Address VARCHAR(200) NOT NULL,
    City VARCHAR(50) NOT NULL,
    State VARCHAR(50) NOT NULL,
    Zip VARCHAR(10) NOT NULL,
    OrderNumber INT NOT NULL,

CONSTRAINT Shipment_PK
    PRIMARY KEY (ShipmentID),
CONSTRAINT Shipment_FK_Order
    FOREIGN KEY (OrderNumber) REFERENCES Orders(OrderNumber)
```

);

INSERT data into all tables

```
INSERT INTO Customer(FirstName,LastName,EmailAddress,Address,City,State,Zip,SSN) VALUES
('Fernand','Hanks','fernandhanks@gmail.com','100 East 87th','New York','NY',10011, '111-00-1010'),
('Nina','Hanks','fernandhanks@gmail.com','210 West 101st','New York','NY',10035, '111-00-1010'),
('Gary','Morris','fernandhanks@gmail.com','11 Sixth Ave','New York','NY',10025, '111-00-1010'),
('Anita','Smythe','fernandhanks@gmail.com','100 Maiden Lane','Richmond Hill','NY',9011, '111-00-1010'),
('Marilyn','Frantzen','fernandhanks@gmail.com','109 Bleeker','Jamaica','NY',89011, '111-00-1010');
```

```
INSERT INTO Roles(RoleName,Description) VALUES
```

```
('CEO','Chief executive officer'),
('Manager','Staff Manager'),
('Employee','Employee handles the orders'),
('Cashier','Employee handles the cash payments'),
('Employee','Employee handles the orders');
```

```
INSERT INTO Employee(FirstName,LastName,Position,HireDate,RoleID,Salary) VALUES
```

```
('Sernand','Ganks','CEO','2014-01-01',1,25000),
('Bash','Crain','Manager','2014-02-01',2,15000),
('Simran','Rathore','OrderManager','2014-12-01',3,6000),
('James','Cameron','ShipmentHandler','2014-12-01',3,6000),
('Marilyn','Toosi','Cash','2015-01-01',4,5000),
('Sara','Tenkradi','Employee','2015-05-01',5,4000);
```

```
INSERT INTO PaymentMethod(PaymentMethodName,Description) VALUES
```

```
('PayPal','Pay using PayPal'),
```

('CashOnDelivery','Pay cash when order is delivered');

INSERT INTO ProductCategory(CategoryName,CategoryDescription) VALUES

('Men','Mens wear'),

('Women','Wommens wear'),

('Kids','Kids wear'),

('Teens','Teens wear'),

('Home','Home & Bedding related products');

INSERT INTO WareHouse(WareHouseName,`WareHouseDescription`,`City`,`State`,`Zip`) VALUES

('eTextile -1','eTextile products warehouse','New York', 'NY', 10012),

('eTextile -2','eTextile products warehouse','New Jersey', 'NJ', 10011),

('eTextile -3','eTextile products warehouse','New York', 'NY', 10013),

('eTextile -4','eTextile products warehouse','New York', 'NJ', 10015),

('eTextile -5','eTextile products warehouse','New York', 'NY', 10016);

INSERT INTO

Supplier(`SupplierName`,`Address`,`City`,`State`,`Zip`,`SSN`,`ContactPerson`,`PhoneNumber`) VALUES

('Outfitters', '1 Mall', 'California', 'CA', 100, '018-01-001', 'Jhon, Berry', '(101) 21 11345'),

('He&She', '212 Downing Street', 'New York', 'NY', 101, '1-1-1', 'Alex, Bonita', '(101) 21 11345'),

('MensFav', 'Jersy city', 'New Jersey', 'NJ', 102, '2-2-1', 'Lim, Kim', '(101) 21 11345'),

('Kidco', '109 Bleeker', 'Jamaica', 'CA', 103, '901-01-112', 'Barbar, White', '(101) 21 11345'),

('Home', '317 Main Boluvard', 'New Jersey', 'NJ', 104, '101-889-8989898', 'Tom, Taseer', '(231) 88 9081976');

INSERT INTO

Product(`ProductName`,`ProductDescription`,`BrandName`,`Price`,`ProductCategoryID`,`SupplierID`) VALUES

```
('Shirt','T Shirt','Youngs',50,1,1),
('Trouser','Trouser','Outfitters',75,1,1),
('Jackets','Women jacket','Outfitters',135,2,1),
('Sleepwear','Sleepwear for him n her','Comfy',60,2,2),
('Denim','Denim for all','Outfitters',75,3,3),
('Tees','Grphic tees','Stone Age',40,3,3),
('Sweatpants','Sweatpants','CK',35,4,4),
('Shorts','Casual shorts','Kids',90,4,4),
('Pillow Covers','hand made pillow covers','Bed',70,5,5),
('BedSheet','Cotton bedsheet','H&M',130,5,5);
```

```
INSERT INTO OrderMode(`OrderModeName`,`Description`)VALUES
('OnlineOrder','Placing order online on website'),
('PhoneOrder','Ordering on phone');
```

```
INSERT INTO Orders(`OrderModelID`,`PaymentMethodID`,`CustomerID`,`OrderDate`)VALUES
(1,1,1,'2105-01-01'),
(1,2,1,'2106-01-01'),
(2,1,2,'2105-02-01'),
(1,2,3,'2105-03-03'),
(2,1,4,'2106-01-12'),
(1,2,3,'2105-11-11'),
(2,1,5,'2105-12-09');
```

```
INSERT INTO OrderItem(`OrderNumber`,`ProductID`,`Quantity`,`SellingPrice`)VALUES
(1,1,3,50),
(1,2,1,60),
(1,9,2,70),
(2,2,2,30),
```


(2,4,1,50),
(2,7,2,60),
(3,2,1,50),
(3,10,1,70),
(3,6,1,60),
(4,7,2,50),
(5,7,2,40),
(6,9,2,30),
(7,8,1,40);

INSERT INTO ProductStock(`ProductID`,`WareHouseNumber`,`QuantityInStock`,`IsOutOfStock`)VALUES

(1,1,100,0),
(2,1,330,0),
(3,1,77,0),
(4,1,89,0),
(5,1,23,0),
(6,1,9,0),
(7,1,130,0),
(8,1,350,0),
(9,1,331,0),
(10,1,401,0);

INSERT INTO Shipment(`ShipmentDate`,`Address`,`City`,`State`,`Zip`,`OrderNumber`)VALUES

('2105-01-01','100 East 87th','New York','NY', 100, 1),
('2106-01-01','210 West 101st','New York','NY', 10098, 2),
('2105-02-01','1st Lane','Richmond Hill','NY', 10927, 3),
('2105-03-03','103 Main Street','New Jersey','NJ', 34567, 4),
('2106-01-12','109 Bleeker','Jamaica','NY', 10010, 5),

```
('2105-11-11','11 Sixth Ave','New York','NY', 10035, 1),  
('2105-12-09','100 Maiden Lane','Richmond Hill','CA', 89001, 1);
```

##SELECT data from all tables to show the data in each table

```
SELECT * FROM Customer;
```

```
SELECT * FROM Employee;
```

```
SELECT * FROM Orders;
```

```
SELECT * FROM OrderItem;
```

```
SELECT * FROM OrderMode;
```

```
SELECT * FROM Product;
```

```
SELECT * FROM ProductStock;
```

```
SELECT * FROM PaymentMethod;
```

```
SELECT * FROM ProductCategory;
```

```
SELECT * FROM Shipment;
```

```
SELECT * FROM Roles;
```

```
SELECT * FROM Supplier;
```

```
SELECT * FROM ProductStock;
```