P4 IMPLEMENTATION

CLOTHING E-COMMERCE

Based on the final ERD submitted in the P3, we have developed the SQL queries to implement and create various stored procedures, triggers and views.

To sum up the details of the database created, the following table would state the components:

Check Constraints:

Sno.	Table	Primary key	Foreign Key	Check constraint
1.	category	categoryID	-	CHK_categoryID
2.	creditcard	creditCardNo	customerID	-
3.	customer	customerID	-	CHK_PhoneNo
4.	customerAddress	customerAddressID	customerID	CHK_postalCode
5.	customerFeedback	FeedbackID	customerID,orderID	CHK_experienceRating, CHK_productRating, CHK_shippingRating
6.	order	orderID	customerID,shipmentID	CHK_orderID
7.	orderDetailsID	orderDetailsID	orderID,productID	CHK_orderDetailsID
8.	payment	paymentID	orderID,creditCardNo	CHK_paymentID
9.	product	productID	categoryID	CHK_productID
10.	productStock	productStockID	productID	CHK_productStock
11.	shipment	shipmentID	customerAddressID	CHK_shipmentID
12.	shipper	shipperID	shipmentID	CHK_shipperID
13.	supplier	supplierID	-	CHK_supplierID
14.	supplierAddress	supplierAddressID	supplierID	CHK_supplierAddressID
15.	supplies	supplierID, productID	-	-

Data encryption:

Sno.	Table	Column Encrypted
1.	creditcard	creditCardNo

Non-Clustered Indexes:

S.No	Table	Non-Clustered Indexes
1.	creditcard	prim_key_creditcard
2.	payment	prim_key_payment
3.	productStock	prim_key_productStock
4.	shipper	prim_key_shipperID

Procedures, views, trigger created:

S.No	Category created	Name
1.	Procedure	GetCustomerFeedbackWith
2.	Procedure	GetCustomerIDandOrderIDWithExperienceRating
3.	Procedure	GetCustomerInformation
4.	Procedure	GetPaymentStatusWith
5.	Procedure	updateProductPrice
6.	Trigger	CheckProductPriceChanges
7.	View	ShowSupplierInfoAndTheirAddress
8.	View	ViewProductInfoWithUnits
9.	View	CustomersAndTheirCreditCards

SQL QUERIES

CREATING A DATABASE:

SQL Query:

```
CREATE DATABASE [DMDDP4]
```

CREATING TABLES:

Table 1: category

```
/* CREATE table category */
CREATE TABLE [dbo].[category] (
  [categoryID] int NOT NULL,
  [categoryName] varchar(30) NOT NULL,
  [categoryDescription] varchar(200) NOT NULL,
  [categoryPicture] varbinary(max),
  CONSTRAINT prim_Key PRIMARY KEY CLUSTERED ([categoryID] ASC),
  )
ON [PRIMARY]
/*Add a CHECK FOR Category Table */
ALTER TABLE [dbo].[category] ADD CONSTRAINT CHK_CategoryID CHECK (categoryID > 0 );
GO
```

Table 2: creditcard

```
/* CREATE table creditcard */
CREATE TABLE [dbo].[creditcard] (
  [creditCardNo] varchar(45) NOT NULL,
  [customerID] int NOT NULL,
  [SetAsPrimary] varchar(20) NOT NULL,
  [creditCardType] varchar(20),
```

```
  [cardExpiry] varchar(20),
  CONSTRAINT prim_key_creditcard PRIMARY KEY NONCLUSTERED ([creditCardNo]),
  )
ON [PRIMARY]

-- Add and CHECK Constraint FOREIGN KEY for CreditCard Table --
ALTER TABLE [dbo].[creditcard] WITH CHECK ADD CONSTRAINT
foreign_CustomerID_CreditCard
FOREIGN KEY ([customerID]) REFERENCES [dbo].[customer] ([customerID])
```

Table: customer

```
/* CREATE table customer */
CREATE TABLE [dbo].[customer] (
  [customerID] int NOT NULL,
  [customerFirstName] varchar(45) NOT NULL,
  [customerLastName] varchar(45) NOT NULL,
  [customerPhoneNo] varchar(45),
  [customerEmail] varchar(45) NOT NULL

  CONSTRAINT prim_Key_customer PRIMARY KEY CLUSTERED ([customerID] ASC),
  )
ON [PRIMARY]

--Add a CHECK for CustomerPhoneNo in customer Table --
ALTER TABLE [dbo].[customer]  WITH CHECK ADD  CONSTRAINT CHK_PhoneNo
CHECK (customerPhoneNo NOT LIKE '%[^0-9]%')
```

Table: customerAddress

```
/* CREATE table customerAddress */
```

```
CREATE TABLE [dbo].[customerAddress] (
  [customerAddressID] int NOT NULL,
  [customerID] int NOT NULL,
  [street] varchar(20) NOT NULL,
  [city] varchar(20) NOT NULL,
  [PostalCode] varchar(20) NOT NULL,
  [useAsBillingAddress] varchar(20) NOT NULL

  CONSTRAINT prim_Key_customerAddress PRIMARY KEY CLUSTERED
([customerAddressID] ASC),
  )
ON [PRIMARY]

-- Add a CHECK CONSTRAINT FOREIGN KEYS for CustomerAddress Table --
ALTER TABLE [dbo].[customerAddress]  WITH CHECK ADD CONSTRAINT
foreign_customerAddress
FOREIGN KEY ([customerID]) REFERENCES [dbo].[customer] ([customerID])

-- Add CHECK CONSTRAINT for PHONE No in CustomerFeedbackTable --
ALTER TABLE [dbo].[customerAddress]  WITH CHECK ADD CONSTRAINT
CHK_PostalCode_customerAddress
CHECK (PostalCode NOT LIKE '%[^0-9]%')
```

Table: customerFeedback

```
/* CREATE table customerFeedback */
CREATE TABLE [dbo].[customerFeedback] (
  [FeedbackID] int NOT NULL,
  [customerID] int NOT NULL,
  [orderID] int NOT NULL,
```

```
  [productRating] decimal(2,1),
  [shippingRating]  decimal(2,1),
  [experienceRating] decimal(2,1)

  CONSTRAINT prim_Key_customerFeedback PRIMARY KEY NONCLUSTERED
([FeedbackID] ASC),
  )
ON [PRIMARY]

-- Add CHECK CONSTRAINT FOREIGN KEYS for CustomerFeedback Table--
ALTER TABLE [dbo].[customerFeedback]  WITH CHECK ADD CONSTRAINT
foreign_key_customer_customerFeedback
FOREIGN KEY ([customerID]) REFERENCES [dbo].[customer] ([customerID])

ALTER TABLE [dbo].[customerFeedback]  WITH CHECK ADD CONSTRAINT
foreign_key_order_customerFeedback
FOREIGN KEY ([orderID]) REFERENCES [dbo].[order] ([orderID])

-- Add CHECK CONSTRAINT for COLUMN VALUES in CustomerFeedbackTable --
ALTER TABLE [dbo].[customerFeedback] WITH CHECK ADD  CONSTRAINT
CHK_productRating
CHECK ([productRating] > 0 AND [productRating] <= 5);

ALTER TABLE [dbo].[customerFeedback] WITH CHECK ADD  CONSTRAINT
CHK_shippingRating
CHECK ([shippingRating] > 0 AND [shippingRating] <= 5);

ALTER TABLE [dbo].[customerFeedback] WITH CHECK ADD  CONSTRAINT
CHK_experienceRating
CHECK ([experienceRating] > 0 AND [experienceRating] <= 5);
```

Table: order

```
/* CREATE table order */
CREATE TABLE [dbo].[order] (
  [orderID] int NOT NULL,
  [orderDate] date NOT NULL,
  [customerID] int NOT NULL,
  [orderTotal] varchar(20) NOT NULL,
  [shipmentID] int NOT NULL,
  [orderTime] time

  CONSTRAINT prim_Key_order PRIMARY KEY CLUSTERED ([orderID] ASC),
  )
ON [PRIMARY]

-- Add CHECK CONSTRAINT FOREIGN KEYS for order Table--
ALTER TABLE [dbo].[order] WITH CHECK ADD CONSTRAINT
foreign_key_customer_order
FOREIGN KEY ([customerID]) REFERENCES [dbo].[customer] ([customerID])

ALTER TABLE [dbo].[order] WITH CHECK ADD CONSTRAINT
foreign_key_shipment_order
FOREIGN KEY ([shipmentID]) REFERENCES [dbo].[shipment] ([shipmentID])

--Add a CHECK for OrderID in order Table --
ALTER TABLE [dbo].[order] WITH CHECK ADD CONSTRAINT CHK_orderID CHECK
(orderID > 0);
```

Table: orderDetails

```
/* CREATE table orderDetails */

CREATE TABLE [dbo].[orderDetails] (

  [orderDetailsID] int NOT NULL,

  [orderID] int NOT NULL,

  [productID] int NOT NULL,

  [orderQuantity] varchar(20),

  [fulfillmentStatus] varchar(20)


  CONSTRAINT prim_Key_orderDetails PRIMARY KEY CLUSTERED ([orderDetailsID]
ASC),

  )

ON [PRIMARY]


-- Add CHECK CONSTRAINT FOREIGN KEYS for orderDetails Table--

ALTER TABLE [dbo].[orderDetails] WITH CHECK ADD  CONSTRAINT
foreign_key_orderID_orderDetails

FOREIGN KEY ([orderID]) REFERENCES [dbo].[order] ([orderID])


ALTER TABLE [dbo].[orderDetails] WITH CHECK ADD  CONSTRAINT
foreign_key_productID_orderDetails

FOREIGN KEY ([productID]) REFERENCES [dbo].[product] ([productID])


--Add a CHECK for orderDetailsID in orderDetails Table --

ALTER TABLE [dbo].[orderDetails] WITH CHECK ADD CONSTRAINT
CHK_orderDetailsID CHECK (orderDetailsID > 0 );
```

Table: payment

```
/* CREATE table payment */

CREATE TABLE [dbo].[payment] (
```

```
  [paymentID] int NOT NULL,
  [orderID] int NOT NULL,
  [paymentMethod] varchar(30) NOT NULL,
  [paymentStatus] varchar(20),
  [paymentDate] date,
  [paymentTime] time,
  [paymentError] varchar(20),
  [creditCardNo] varchar(45) NOT NULL

  CONSTRAINT prim_Key_payment PRIMARY KEY NONCLUSTERED ([paymentID] ASC),
  )
ON [PRIMARY]

-- Add CHECK CONSTRAINT FOREIGN KEY for payment Table--
ALTER TABLE [dbo].[payment] WITH CHECK ADD  CONSTRAINT
foreign_key_orderID_payment
FOREIGN KEY ([orderID]) REFERENCES [dbo].[order] ([orderID])

ALTER TABLE [dbo].[payment] WITH CHECK ADD CONSTRAINT
foreign_key_creditCardNo_payment
FOREIGN KEY (creditCardNo) REFERENCES [dbo].[creditCard] ([creditCardNo])

--Add a CHECK for paymentID in payment Table --
ALTER TABLE [dbo].[payment] WITH CHECK ADD CONSTRAINT CHK_paymentID
CHECK (paymentID > 0)
```

Table: product

```
/* CREATE table product */
CREATE TABLE [dbo].[product] (
```

```
  [productID] int NOT NULL,
  [categoryID] int NOT NULL,
  [productName] varchar(45) NOT NULL,
  [productPrice] int,
  [productColor] varchar(20),
  [productSize] varchar(20),
  [discount] varchar(20),
  [productWeight] varchar(20),
  [productPicture] varbinary(max),
  [productDescription] varchar(200)

  CONSTRAINT prim_Key_product PRIMARY KEY CLUSTERED ([productID] ASC),
  )
ON [PRIMARY]

-- Add CHECK CONSTRAINT FOREIGN KEY for product Table--
ALTER TABLE [dbo].[product] WITH CHECK ADD  CONSTRAINT foreign_key_categoryID
FOREIGN KEY ([categoryID]) REFERENCES [dbo].[category] ([categoryID])

--Add a CHECK for productID in product Table --
ALTER TABLE [dbo].[product] WITH CHECK ADD CONSTRAINT CHK_productID
CHECK (productID > 0 );
```

Table: productStock

```
/* CREATE table productStock */
CREATE TABLE [dbo].[productStock] (
  [productStockID] int NOT NULL,
  [productID] int NOT NULL,
  [unitsInStock] varchar(20),
```

```
  [unitsInOrder] varchar(20)


  CONSTRAINT prim_Key_productStockID PRIMARY KEY NONCLUSTERED
([productStockID]),

  )

ON [PRIMARY]


-- Add CHECK CONSTRAINT FOREIGN KEY for productStock Table--

ALTER TABLE [dbo].[productStock]  WITH CHECK ADD CONSTRAINT
foreign_key_productID_productStock

FOREIGN KEY ([productID]) REFERENCES [dbo].[product] ([productID])


--Add a CHECK for productStockID in productStock Table --

ALTER TABLE [dbo].[productStock] WITH CHECK ADD CONSTRAINT
CHK_productStock CHECK (productStockID > 0)
```

Table: Shipment

```
/* CREATE table shipment */

CREATE TABLE [dbo].[shipment] (

  [shipmentID] int NOT NULL,

  [customerAddressID] int NOT NULL,

  [shippingDate] date NOT NULL,

  [shippingMethod] varchar(20) NOT NULL


  CONSTRAINT prim_Key_shipment PRIMARY KEY CLUSTERED ([shipmentID] ASC),

  )

ON [PRIMARY]


-- Add CHECK CONSTRAINT FOREIGN KEY for shipment Table--
```

ALTER TABLE [dbo].[shipment] WITH CHECK ADD CONSTRAINT foreign_shipment

FOREIGN KEY ([customerAddressID]) REFERENCES [dbo].[customerAddress] ([customerAddressID])

--Add a CHECK for shipmentID in shipment Table --

ALTER TABLE [dbo].[shipment] WITH CHECK ADD CONSTRAINT CHK_shipmentID CHECK (shipmentID > 0);

Table: shipper

```
/* CREATE table shipper */

CREATE TABLE [dbo].[shipper] (

  [shipperID] int NOT NULL,

  [shipmentID] int NOT NULL,

  [shipperName] varchar(45),

  [shipperPhoneNo] varchar(20)


  CONSTRAINT prim_Key_shipperID PRIMARY KEY NONCLUSTERED ([shipperID]),

  )

ON [PRIMARY]
```

-- Add CHECK CONSTRAINT FOREIGN KEY for shipper Table--

ALTER TABLE [dbo].[shipper] WITH CHECK ADD CONSTRAINT foreign_key_shipmentID_shipper

FOREIGN KEY ([shipmentID]) REFERENCES [dbo].[shipment] ([shipmentID])

--Add a CHECK for shipperID in shipper Table --

ALTER TABLE [dbo].[shipper] WITH CHECK ADD CONSTRAINT CHK_shipperID CHECK (shipperID > 0)

Table: supplier

```
/* CREATE table supplier */
CREATE TABLE [dbo].[supplier] (
  [supplierID] int NOT NULL,
  [supplierFirstName] varchar(20) NOT NULL,
  [supplierLastName] varchar(20),
  [supplierPhoneNo] varchar(20),
  [supplierEmail] varchar(45),
  [supplierURL] varchar(45),
  [supplierDescription] varchar(200),

  CONSTRAINT prim_Key_supplierID PRIMARY KEY CLUSTERED ([supplierID] ASC),
  )
ON [PRIMARY]

--Add a CHECK for supplierID in supplier Table --
ALTER TABLE [dbo].[supplier]  WITH CHECK ADD CONSTRAINT CHK_supplierID
CHECK (supplierID > 0)
```

Table: supplierAddress

```
/* CREATE table supplierAddress */
CREATE TABLE [dbo].[supplierAddress] (
  [supplierAddressID] int NOT NULL,
  [supplierID] int NOT NULL,
  [street] varchar(20) NOT NULL,
  [city] varchar(20),
  [postalCode] varchar(20),
```

```
  CONSTRAINT prim_Key_supplierAddressID PRIMARY KEY NONCLUSTERED
([supplierAddressID]),

  )

ON [PRIMARY]


-- Add CHECK CONSTRAINT FOREIGN KEY for supplierAddress Table--

ALTER TABLE [dbo].[supplierAddress] WITH CHECK ADD CONSTRAINT
foreign_key_supplierID_supplierAddress

FOREIGN KEY ([supplierID]) REFERENCES [dbo].[supplier] ([supplierID])


--Add a CHECK for supplieraddressID in supplierAddress Table --

ALTER TABLE [dbo].[supplierAddress] WITH CHECK ADD CONSTRAINT
CHK_supplierAddressID CHECK (supplierAddressID > 0)
```

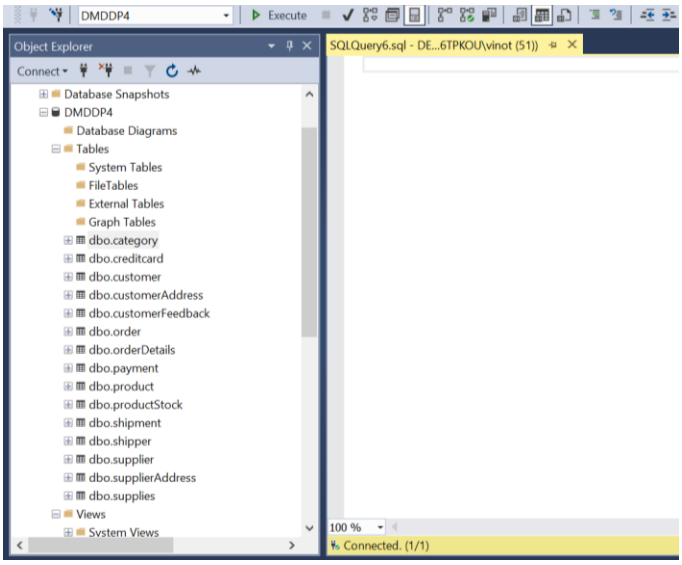
Table: supplies

```
/* CREATE table supplies */

CREATE TABLE [dbo].[supplies] (

  [supplierID] int NOT NULL,

  [productID] int NOT NULL


  CONSTRAINT prim_Key_supplies PRIMARY KEY CLUSTERED
([supplierID],[productID]),

  )

ON [PRIMARY]


-- Add CHECK CONSTRAINT FOREIGN KEY for supplies Table--

ALTER TABLE [dbo].[supplies]  WITH CHECK ADD CONSTRAINT
foreign_key_supplierID_supplies

FOREIGN KEY ([supplierID]) REFERENCES [dbo].[supplier] ([supplierID])
```

ALTER TABLE [dbo].[supplies] WITH CHECK ADD CONSTRAINT foreign_key_productID_supplies

FOREIGN KEY ([productID]) REFERENCES [dbo].[product] ([productID])

<u>Result:</u> Displaying the names of the table in the created database DMDDP4



INSERTING THE DATA INTO THE CREATED TABLES OF THE DATABASE DMDDP4

Inserting into category table:

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES (1,'T-Shirts','T-Shirts great for casual wear, work, parties', '/Users/ritz/documents/Database/Homeworks/Project/T-shirt.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(2,'Shirts','Shirts great for casual wear, work, parties', '/Users/ritz/documents/Database/Homeworks/Project/Shirt.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(3,'Sweaters','Winter Sweaters', '/Users/ritz/documents/Database/Homeworks/Project/Sweaters.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(4,'SweatShirts','Casual style Sweatshirts, Winter Sweatshirts', '/Users/ritz/documents/Database/Homeworks/Project/SweatShirts.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(5,'Jackets','Jackets great for casual wear, work, parties, winter', '/Users/ritz/documents/Database/Homeworks/Project/Jackets.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(6,'Casual Trousers','Casual trousers great for casual wear, work, parties', '/Users/ritz/documents/Database/Homeworks/Project/Trousers.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(7,'Shorts','Shorts great for casual wear, parties', '/Users/ritz/documents/Database/Homeworks/Project/Shorts.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(8,'Joggers','Joggers great for casual wear, work-out, gym', '/Users/ritz/documents/Database/Homeworks/Project/Joggers.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(9,'Dresses','Dresses great for casual wear, work, parties', '/Users/ritz/documents/Database/Homeworks/Project/Dresses.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(10,'Jumpsuits','Jumpsuits great for casual wear, work, parties', '/Users/ritz/documents/Database/Homeworks/Project/Jumpsuits.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(11,'Skirts','Skirts great for casual wear, work, parties', '/Users/ritz/documents/Database/Homeworks/Project/Skirts.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(12,'Shrugs','Shrugs great for casual wear, work, parties', '/Users/ritz/documents/Database/Homeworks/Project/Shrugs.jpg');

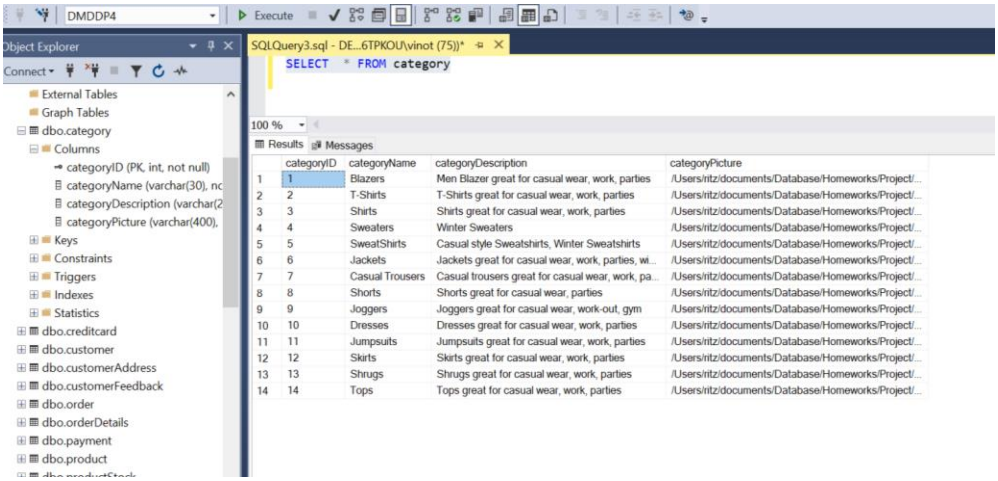
INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(13,'Tops','Tops great for casual wear, work, parties', '/Users/ritz/documents/Database/Homeworks/Project/Tops.jpg');

INSERT INTO category (categoryID, categoryName, categoryDescription, categoryPicture)

VALUES(14,'Blazer','Blazers great for work, parties', '/Users/ritz/documents/Database/Homeworks/Project/Blazer.jpg');

Displaying category table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



Inserting into creditCard table:

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES ('123456789',1,'yes','VISA','11/21');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('2222405343248877',2,'yes','VISA','01/23');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('2222990905257051',3,'yes','VISA','01/23');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('2223007648726984',4,'no','MASTERCARD','03/25');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('2223577120017656',5,'yes','APPEX','09/25');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('378282246310005',1,'no','MASTERCARD','11/25');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('5105105105105100',6,'yes','VISA','09/25');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('5111010030175156',7,'no','MASTERCARD','08/23');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('5185540810000019',8,'yes','APPEX','02/24');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('5200828282828210',9,'no','APPEX','04/27');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('5204230080000017',10,'no','MASTERCARD','04/27');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('5204740009900014',11,'yes','VISA','05/25');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('5420923878724339',12,'no','VISA','06/23'),

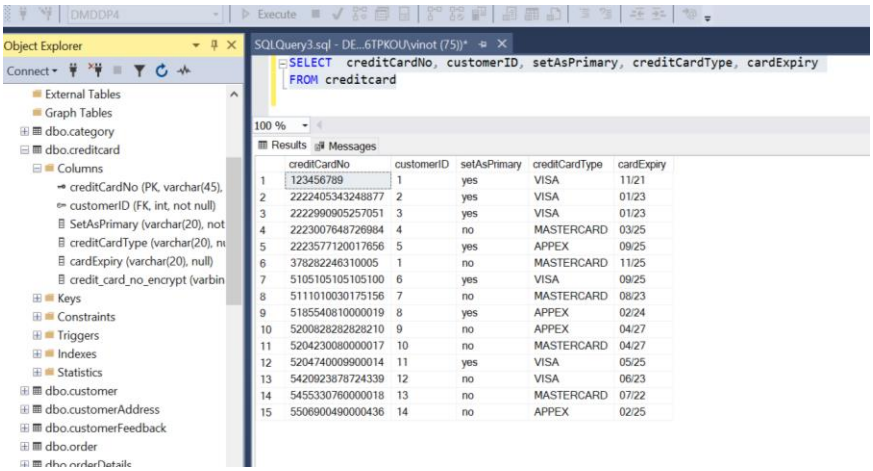
INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('5455330760000018',13,'no','MASTERCARD','07/22');

INSERT INTO creditcard (creditCardNo, customerID, setAsPrimary, creditCardType, cardExpiry)

VALUES('5506900490000436',14,'no','APPEX','02/25');

Displaying creditcard table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



Inserting into Customer table:

INSERT INTO Customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES (1,'Cecelia','Chapman','8493221093','cecelia@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES (2,'Iris','Watson','3725872335','iris@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(3,'Celeste','Slater','7867138616','celeste@gmail.com');

INSERT INTO Customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(4,'Theodore','Lowe','7867138616','Theodore@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(5,'Kyla','Olsen','6543935734','kyla@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(6,'Hiroko','Potter','3142446306','hiroko@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(7,'Nyssa','Vazquez','9472785929','nyssa@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(8,'Lawrence','Moreno','6845791879','lawrence@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(9,'Ian','Somerhalder','3142444006','Ian@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(10,'Aaron','Hawkins','6606634518','aaron@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(11,'Hedy','Greene','6082652215','hedy@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(12,'Melvin','Porter','9591198364','melvin@gmail.com');

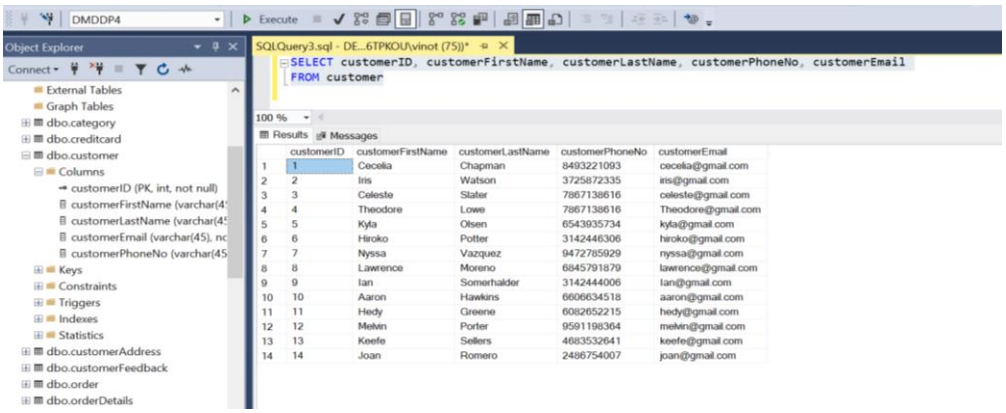
INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(13,'Keefe','Sellers','4683532641','keefe@gmail.com');

INSERT INTO customer (customerID, customerFirstName, customerLastName, customerPhoneNo, customerEmail)

VALUES(14,'Joan','Romero','2486754007','joan@gmail.com');

Displaying customer table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



Inserting into customerAddress table:

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (1,1,'Marlboro street','Mankato','96522','yes');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (2,1,'Amet street','RockyMount WA','48580','no');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (3,2,'Arcu street','Tinsville','19587','yes');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (4,3,'Seasame street','SantaBarbara','88017','yes');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (5,4,'Maple street','Wilmington','05182','yes');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (6,5,'Cedar street','Watertown','07367','no');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (7,6,'Elm street','SantaBarbara','88317','yes');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (8,7,'Lake street','Kingsport','56618','no');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (9,8,'Pine street','SouthPort','80317','yes');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (10,9,'Seventh street','Dakota','79637','yes');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (11,10,'Main street','Louisiana','67973','yes');

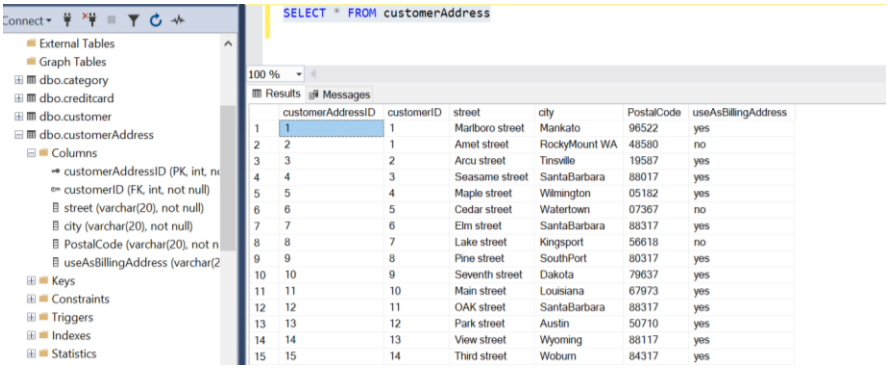
INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (12,11,'OAK street','SantaBarbara','88317','yes');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (13,12,'Park street','Austin','50710','yes');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (14,13,'View street','Wyoming','88117','yes');

INSERT INTO customerAddress (customerAddressID, customerID, street, city, postalCode, useAsBillingAddress) VALUES (15,14,'Third street','Woburn','84317','yes');

Displaying customerAddress table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



	customerAddressID	customerID	street	city	PostalCode	useAsBillingAddress
1	1	1	Marlboro street	Mankato	96522	yes
2	2	1	Amet street	RockyMount WA	48580	no
3	3	2	Arcu street	Tinsville	19587	yes
4	4	3	Seasame street	SantaBarbara	88017	yes
5	5	4	Maple street	Wilmington	05182	yes
6	6	5	Cedar street	Watertown	07367	no
7	7	6	Elm street	SantaBarbara	88317	yes
8	8	7	Lake street	Kingsport	56618	no
9	9	8	Pine street	SouthPort	80317	yes
10	10	9	Seventh street	Dakota	79637	yes
11	11	10	Main street	Louisiana	67973	yes
12	12	11	OAK street	SantaBarbara	88317	yes
13	13	12	Park street	Austin	50710	yes
14	14	13	View street	Wyoming	88117	yes
15	15	14	Third street	Woburn	84317	yes

Inserting into customerFeedback:

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (1,1,1,3.5,4.5,4.0);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (2,2,1,4.5,4.5,4.5);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (3,3,2,2.8,3.5,3.0);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (4,4,3,4.5,5.0,5.0);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (5,5,4,3.4,4.0,4.0);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (6,6,5,4.0,4.0,4.0);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (7,7,6,5.0,4.5,5.0);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (8,8,7,5.0,5.0,5.0);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (9,9,8,3.5,3.5,3.5);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (10,10,9,4.5,3.0,4.5);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (11,11,10,5.0,5.0,5.0);

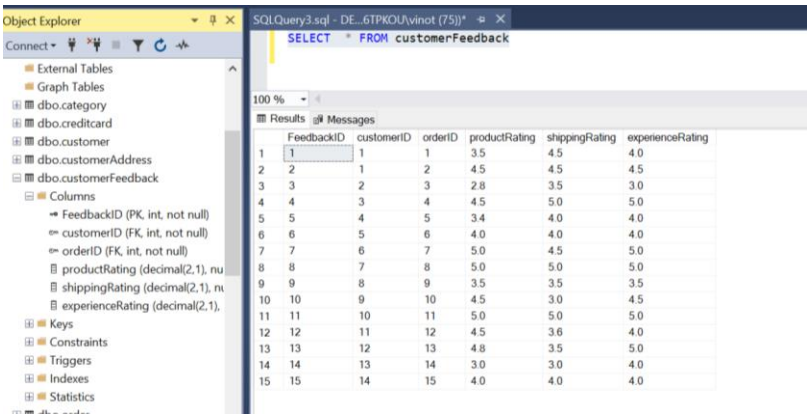
INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (12,12,11,4.5,3.6,4.0);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (13,13,12,4.8,3.5,5.0);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (14,14,13,3.0,3.0,4.0);

INSERT INTO customerFeedback (FeedbackID, orderID, customerID, productRating, shippingRating, experienceRating) VALUES (15,15,14,4.0,4.0,4.0);

<u>Displaying customerFeedback table:</u> The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



	FeedbackID	customerID	orderID	productRating	shippingRating	experienceRating
1	1	1	1	3.5	4.5	4.0
2	2	1	2	4.5	4.5	4.5
3	3	2	3	2.8	3.5	3.0
4	4	3	4	4.5	5.0	5.0
5	5	4	5	3.4	4.0	4.0
6	6	5	6	4.0	4.0	4.0
7	7	6	7	5.0	4.5	5.0
8	8	7	8	5.0	5.0	5.0
9	9	8	9	3.5	3.5	3.5
10	10	9	10	4.5	3.0	4.5
11	11	10	11	5.0	5.0	5.0
12	12	11	12	4.5	3.6	4.0
13	13	12	13	4.8	3.5	5.0
14	14	13	14	3.0	3.0	4.0
15	15	14	15	4.0	4.0	4.0

Inserting into [order] table:

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (1,1,'01/17/2020','$209',1,'20:30:12');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (2,1,'02/18/2020','$39',2,'20:30:12');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (3,2,'02/11/2020','$300',3,'10:30:06');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (4,3,'01/01/2020','$400',4,'09:30:04');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (5,4,'01/17/2020','$29',5,'12:30:08');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (6,5,'01/21/2020','$39',6,'21:30:11');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (7,6,'05/01/2020','$20',7,'13:00:12');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (8,7,'02/26/2020','$31',8,'15:00:12');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (9,8,'03/10/2020','$500',9,'16:13:00');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (10,9,'01/06/2020','$600',10,'20:30:12');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (11,10,'01/04/2020','$700',11,'17:15:36');

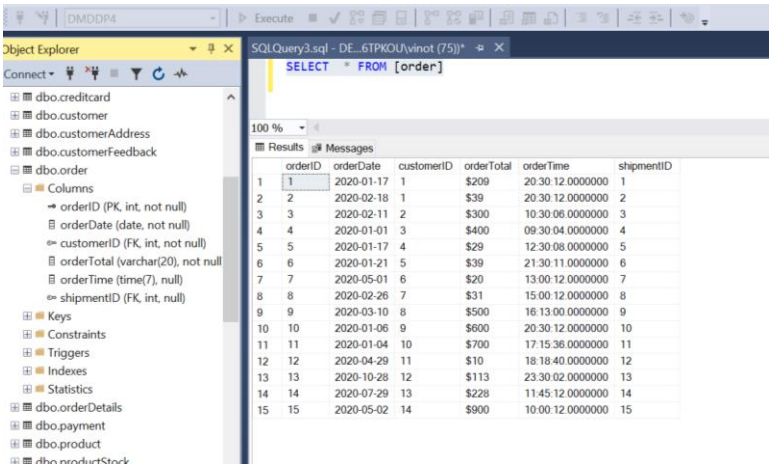
INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (12,11,'04/29/2020','$10',12,'18:18:40');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (13,12,'10/28/2020','$113',13,'23:30:02');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (14,13,'07/29/2020','$228',14,'11:45:12');

INSERT INTO [order] (orderID, customerID, orderDate, orderTotal, shipmentID, orderTime) VALUES (15,14,'05/02/2020','$900',15,'10:00:12');

Displaying order table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



<u>Inserting into orderDetails table:</u>

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (1,1,1,'4','Delivered');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (2,2,1,'4','Delivered');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (3,3,8,'2','Not Applied');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (4,4,7,'3','Not Applied');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (5,5,6,'2','Fulfilled');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (6,6,5,'1','Not Applied');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (7,7,4,'2','Fulfilled');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (8,8,3,'1','Failed');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (9,9,2,'3','Confrimed');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (10,10,1,'1','Not Applied');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (11,11,9,'2','Not Applied');

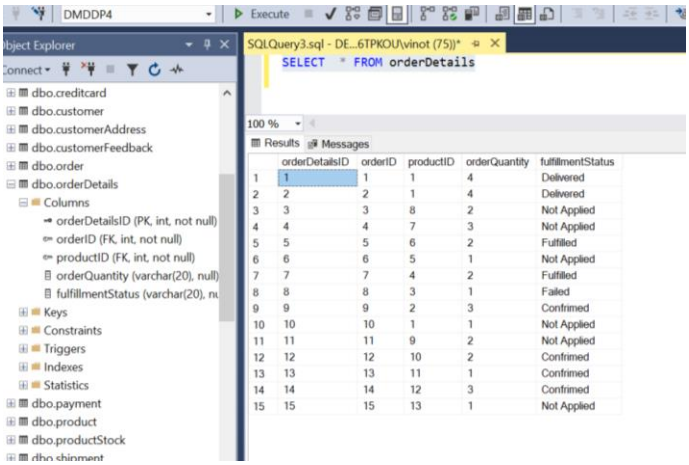
INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (12,12,10,'2','Confrimed');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (13,13,11,'1','Confrimed');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (14,14,12,'3','Confrimed');

INSERT INTO orderDetails (orderDetailsID, orderID, productID, orderQuantity, fulfillmentStatus) VALUES (15,15,13,'1','Not Applied');

Displaying orderDetails table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



Inserting into payment table:

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES (1,1,'VISA','Approved','01/17/2020','20:32:02','NO ERROR', '123456789');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES (2,2,'VISA','Approved','02/11/2020','10:35:02','NO ERROR', '2222405343248877');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES (3,3,'VISA','Pending','01/01/2020','09:35:02','Pending', '2222990905257051');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES (4,4,'MASTERCARD','Failed','01/17/2020','12:35:02','Card Invalid', '2223007648726984');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES
(5,5,'APPEX','Approved','01/21/2020','21:30:02','NO ERROR', '2223577120017656');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES
(6,6,'VISA','Pending','05/01/2020','13:10:52','Pending', '378282246310005');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES
(7,7,'MASTERCARD','Approved','02/26/2020','15:12:02','NO ERROR', '5105105105105100');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES
(8,8,'APPEX','Failed','03/10/2020','16:32:02','Server Time Out', '5111010030175156');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES
(9,9,'APPEX','Approved','01/06/2020','20:32:02','NO ERROR', '5185540810000019');

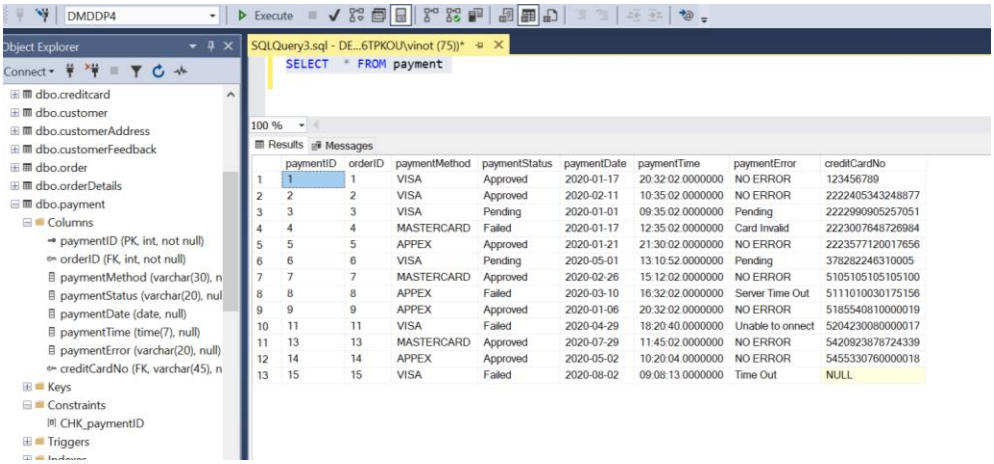
INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES
(11,11,'VISA','Failed','04/29/2020','18:20:40','Unable to onnect', '5200828282828210');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES
(13,13,'MASTERCARD','Approved','07/29/2020','11:45:02','NO ERROR', '5204230080000017');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES
(14,14,'APPEX','Approved','05/02/2020','10:20:04','NO ERROR', '5204740009900014');

INSERT INTO payment (paymentID, orderID, paymentMethod, paymentStatus, paymentDate, paymentTime, paymentError, creditCardNo) VALUES
(15,15,'VISA','Failed','08/02/2020','09:08:13','Time Out', '5420923878724339');

Displaying payment table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



	paymentID	orderID	paymentMethod	paymentStatus	paymentDate	paymentTime	paymentError	creditCardNo
1	1	1	VISA	Approved	2020-01-17	20:32:02.0000000	NO ERROR	123456789
2	2	2	VISA	Approved	2020-02-11	10:35:02.0000000	NO ERROR	2222405343248877
3	3	3	VISA	Pending	2020-01-01	09:35:02.0000000	Pending	2222990905257051
4	4	4	MASTERCARD	Failed	2020-01-17	12:35:02.0000000	Card Invalid	2223007648726984
5	5	5	APPEX	Approved	2020-01-21	21:30:02.0000000	NO ERROR	2223577120017656
6	6	6	VISA	Pending	2020-05-01	13:10:52.0000000	Pending	378282246310005
7	7	7	MASTERCARD	Approved	2020-02-26	15:12:02.0000000	NO ERROR	5105105105105100
8	8	8	APPEX	Failed	2020-03-10	16:32:02.0000000	Server Time Out	5111010030175156
9	9	9	APPEX	Approved	2020-01-06	20:32:02.0000000	NO ERROR	5185540810000019
10	11	11	VISA	Failed	2020-04-29	18:20:40.0000000	Unable to onnect	5204230080000017
11	13	13	MASTERCARD	Approved	2020-07-29	11:45:02.0000000	NO ERROR	5420923878724339
12	14	14	APPEX	Approved	2020-05-02	10:20:04.0000000	NO ERROR	5455330760000018
13	15	15	VISA	Failed	2020-08-02	09:08:13.0000000	Time Out	NULL

<u>Inserting into product table:</u>

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (1,'Mustard T-Shirt',1,35,'yellow','Small','10%','120gms', '/Users/ritz/documents/Database/Homeworks/Project/9b375b94dd6c9f3f9c6079cb8e8111a8.jpg','88% Polyster, 12% Spandex, Machine Wash');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (2,'Mustard T-Shirts',1,40,'yellow','Large','10%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/T-shirt.jpg','88% polyester,12% spandex,machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (3,'Roadster Shirts',2,103,'blue','Medium','10%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/RoadsterShirtSmall.jpg','88% polyester,12% spandex,machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (4,'Forever Sweaters',3,40,'pink','large','10%','120gms', '/Users/ritz/documents/Database/Homeworks/Project/ForeverSweaterslarge.jpg','88% polyester,12% wool, Hand wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (5,'Forever Sweatshirts',4,39,'white','Medium','10%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/ForeverSweatshirtsWhiteMedium.jpg','90% cotton, machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (6,'Forever Sweatshirts',4,39,'black','Medium','10%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/ForeverSweatshirtsBlackMedium.jpg','90% cotton, machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (7,'Forever Sweatshirts',4,42,'pink','large','10%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/ForeverSweatshirtsPinkLarge.jpg','90% cotton, machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (8,'Polo Jackets',5,40,'blue','medium','10%','150gms', '/Users/ritz/documents/Database/Homeworks/Project/ForeverSweatshirtsPinkLarge.jpg','90% Denim, 10% Cotton machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (9,'Casual Trousers',6,70,'beige','medium','20%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/CasualTrousers.jpg','90% cotton, machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (10,'Jayleane Shorts',7,70,'black','medium','20%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/JayleaneBlackShorts.jpg','90% cotton, machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (11,'Joggers',8,60,'black','medium','20%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/BlackJoggers.jpg','90% cotton, machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (12,'Dresses',9,60,'red','medium','20%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/RedDresses.jpg','90% cotton, machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (13,'Jumpsuits',10,30,'blue print on white','medium','20%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/Jumpsuits.jpg','90% cotton, machine wash.');

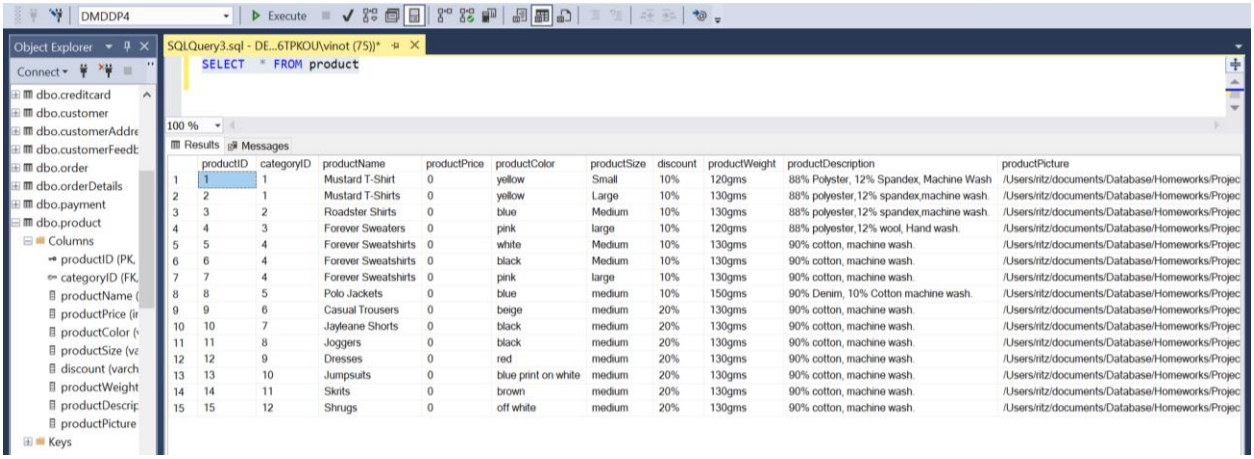
INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (14,'Skrits',11,35,'brown','medium','20%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/brownSkirts.jpg','90% cotton, machine wash.');

INSERT INTO product (productID, productName, categoryID, productPrice, productColor, productSize, discount, productWeight, productPicture, productDescription)

VALUES (15,'Shrugs',12,35,'off white','medium','20%','130gms', '/Users/ritz/documents/Database/Homeworks/Project/OffWhiteShrugs.jpg','90% cotton, machine wash.');

<u>Displaying product table:</u> The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



	productID	categoryID	productName	productPrice	productColor	productSize	discount	productWeight	productDescription	productPicture
1	1	1	Mustard T-Shirt	0	yellow	Small	10%	120gms	88% Polyster, 12% Spandex, Machine Wash	/Users/ritz/documents/Database/Homeworks/Projec
2	2	1	Mustard T-Shirts	0	yellow	Large	10%	130gms	88% polyester,12% spandex,machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
3	3	2	Roadster Shirts	0	blue	Medium	10%	130gms	88% polyester,12% spandex,machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
4	4	3	Forever Sweaters	0	pink	large	10%	120gms	88% polyester,12% wool, Hand wash.	/Users/ritz/documents/Database/Homeworks/Projec
5	5	4	Forever Sweatshirts	0	white	Medium	10%	130gms	90% cotton, machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
6	6	4	Forever Sweatshirts	0	black	Medium	10%	130gms	90% cotton, machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
7	7	4	Forever Sweatshirts	0	pink	large	10%	130gms	90% cotton, machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
8	8	5	Polo Jackets	0	blue	medium	10%	150gms	90% Denim, 10% Cotton machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
9	9	6	Casual Trousers	0	beige	medium	20%	130gms	90% cotton, machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
10	10	7	Jayleane Shorts	0	black	medium	20%	130gms	90% cotton, machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
11	11	8	Joggers	0	black	medium	20%	130gms	90% cotton, machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
12	12	9	Dresses	0	red	medium	20%	130gms	90% cotton, machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
13	13	10	Jumpsuits	0	blue print on white	medium	20%	130gms	90% cotton, machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
14	14	11	Skrits	0	brown	medium	20%	130gms	90% cotton, machine wash.	/Users/ritz/documents/Database/Homeworks/Projec
15	15	12	Shrugs	0	off white	medium	20%	130gms	90% cotton, machine wash.	/Users/ritz/documents/Database/Homeworks/Projec

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<u>Inserting into productStock table:</u>

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (1,1,'10','4');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (2,2,'10','4');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (3,3,'20','6');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (4,4,'40','15');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (5,5,'10','2');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (6,6,'30','20');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (7,7,'35','25');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (8,8,'30','5');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (9,9,'20','14');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (10,10,'25','14');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (11,11,'30','24');

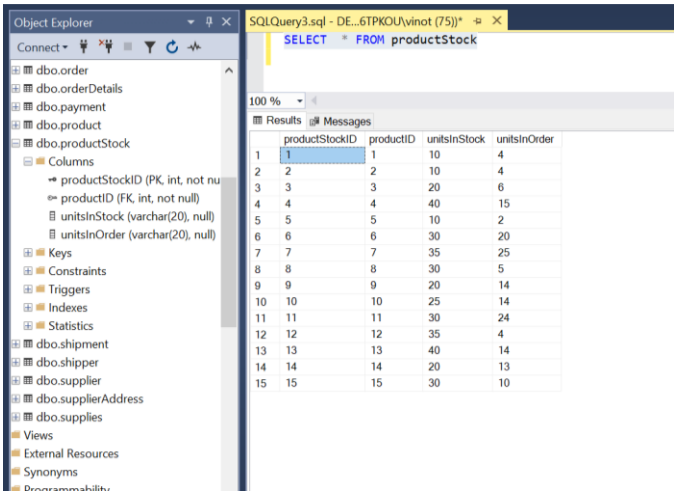
INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (12,12,'35','4');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (13,13,'40','14');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (14,14,'20','13');

INSERT INTO productStock (productStockID, productID, unitsInStock, unitsInOrder) VALUES (15,15,'30','10');

Displaying productStock table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



Inserting into shipment table:

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (1,1,'01/18/2020','USPS priority shipping');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (2,1,'02/18/2020','USPS priority shipping');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (3,3,'02/20/2020','UPS Ground');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (4,4,'02/01/2020','USPS First Class Package');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (5,5,'03/02/2020','UPS Ground');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (6,6,'01/23/2020','UPS 3-Day Select');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (7,7,'07/01/2020','UPS NEXT DAY Air');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (8,8,'05/03/2020','FedEX Ground');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (9,9,'11/10/2020','UPS 2-Day Air');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (10,10,'08/06/2020','FedEx First Class Package');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (11,11,'06/04/2020','FedEx Next Day Air');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (12,12,'04/05/2020','FedEx Ground');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (13,13,'05/11/2020','USPS Ground');

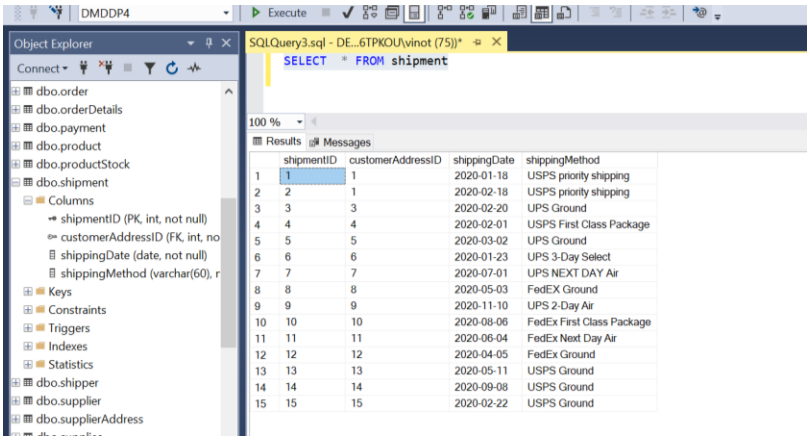
INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (14,14,'09/08/2020','USPS Ground');

INSERT INTO shipment (shipmentID, customerAddressID, shippingDAte, shippingMethod)

VALUES (15,15,'02/22/2020','USPS Ground');

Displaying shipment table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



	shipmentID	customerAddressID	shippingDate	shippingMethod
1	1	1	2020-01-18	USPS priority shipping
2	2	1	2020-02-18	USPS priority shipping
3	3	3	2020-02-20	UPS Ground
4	4	4	2020-02-01	USPS First Class Package
5	5	5	2020-03-02	UPS Ground
6	6	6	2020-01-23	UPS 3-Day Select
7	7	7	2020-07-01	UPS NEXT DAY Air
8	8	8	2020-05-03	FedEX Ground
9	9	9	2020-11-10	UPS 2-Day Air
10	10	10	2020-08-06	FedEx First Class Package
11	11	11	2020-06-04	FedEx Next Day Air
12	12	12	2020-04-05	FedEx Ground
13	13	13	2020-05-11	USPS Ground
14	14	14	2020-09-08	USPS Ground
15	15	15	2020-02-22	USPS Ground

Inserting into shipper table:

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (1,1,'Real Essentials','4312546565');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (2,15,'Real Essentials','4312546565');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (3,14,'Rowey','74623104362');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (4,13,'Mayhem','84730654265');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (5,12,'for-Ever','89734065245');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (6,11,'Real clothing','12381521343');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (7,10,'Essentials','893648724512');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (8,9,'Corry Clothing','65434213121');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (9,8,'Emma Boutique','12313435564');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (10,7,'Femina','371287814432');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (11,6,'Jay Cotton','64392745613');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (12,5,'Cotton King','45623911243');

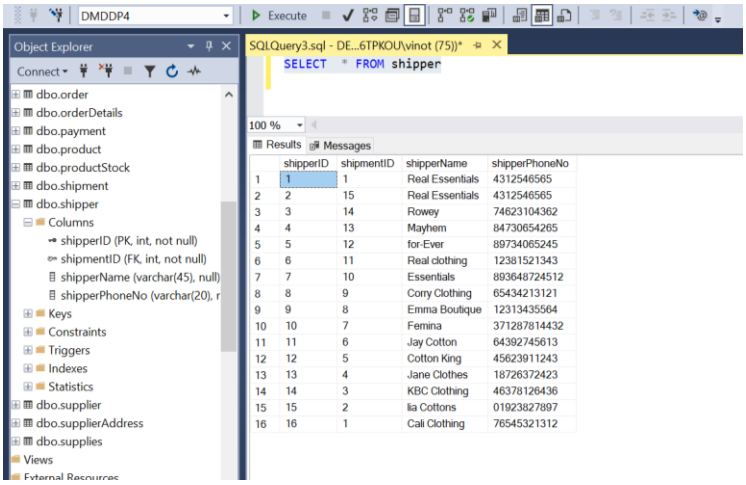
INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (13,4,'Jane Clothes','18726372423');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (14,3,'KBC Clothing','46378126436');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (15,2,'lia Cottons','01923827897');

INSERT INTO shipper (shipperID, shipmentID, shipperName, shipperPhoneNo) VALUES (16,1,'Cali Clothing','76545321312');

Displaying shipper table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



Inserting into supplier table:

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES (1,'Tamara','Howe','1213431320','Tamara@gmail.com','www.THSuppliers.com','we supply best of clothing');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(2,'Owen','Babara','2233445566','owen@gmail.com','www.OwenSuppliers.com','we supply all kind of clothes');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(3,'Amara','welson','9087654321','amara@gmail.com','www.amaraBoutique.com','worl d standards clothing');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(4,'Neha','Kishore','4793284123','neha@gmail.com','www.nehaclothins.com','Best clothing');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(5,'Ria','Lamba','9283018349','ria@gmail.com','www.riaBoutique.com','Finest Clothes');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(6,'Mark','Mayer','8237138236','mark@gmail.com','www.markSupplies.com','best quality clothes');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(7,'Leo','Lama','1903892832','Leo@gmail.com','www.leoClothing.com','Finest clothings');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(8,'Jane','Corry','8278139217','jane@gmail.com','www.janeBoutique.com','Best Clothing');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(9,'Kristine','Walker','2837189782','Kristine@gmail.com','www.kristineBoutique.com','we supply best quality clothes');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(10,'Ariya','Sen','2918382321','ariya@gmail.com','www.ariyaClothing.com','best quality clothes');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(11,'Maureen','Den','8237923811','maureen@gmail.com','www.maureenClothing.com','finest Clothes');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(12,'Rachel','Doe','2371837927','rachel@gmail.com','www.rachelDaleClothing.com','best clothing');

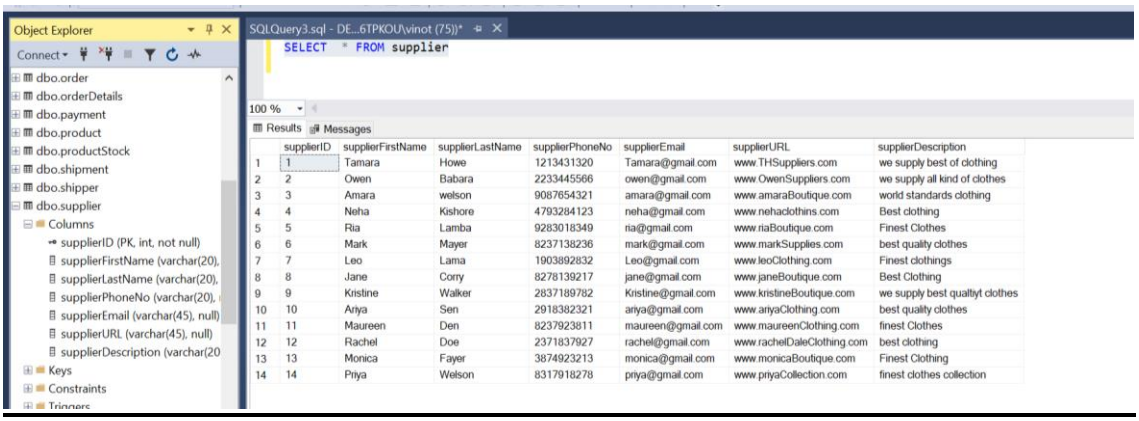
INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(13,'Monica','Fayer','3874923213','monica@gmail.com','www.monicaBoutique.com','Finest Clothing');

INSERT INTO supplier (supplierID, supplierFirstName, supplierLastName, supplierPhoneNo, supplierEmail, supplierURL, supplierDescription)

VALUES(14,'Priya','Welson','8317918278','priya@gmail.com','www.priyaCollection.com','finest clothes collection ');

Displaying supplier table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



	supplierID	supplierFirstName	supplierLastName	supplierPhoneNo	supplierEmail	supplierURL	supplierDescription
1	1	Tamara	Howe	1213431320	Tamara@gmail.com	www.THSuppliers.com	we supply best of clothing
2	2	Owen	Babara	2233445566	owen@gmail.com	www.OwenSuppliers.com	we supply all kind of clothes
3	3	Amara	welson	9087654321	amara@gmail.com	www.amaraBoutique.com	world standards clothing
4	4	Neha	Kishore	4793284123	neha@gmail.com	www.nehaclothins.com	Best clothing
5	5	Ria	Lamba	9283018349	ria@gmail.com	www.riaBoutique.com	Finest Clothes
6	6	Mark	Mayer	8237138236	mark@gmail.com	www.markSupplies.com	best quality clothes
7	7	Leo	Lama	1903892832	Leo@gmail.com	www.leoClothing.com	Finest clothings
8	8	Jane	Corry	8278139217	jane@gmail.com	www.janeBoutique.com	Best Clothing
9	9	Kristine	Walker	2837189782	Kristine@gmail.com	www.kristineBoutique.com	we supply best qualityt clothes
10	10	Ariya	Sen	2918382321	ariya@gmail.com	www.ariyaClothing.com	best quality clothes
11	11	Maureen	Den	8237923811	maureen@gmail.com	www.maureenClothing.com	finest Clothes
12	12	Rachel	Doe	2371837927	rachel@gmail.com	www.rachelDaleClothing.com	best clothing
13	13	Monica	Fayer	3874923213	monica@gmail.com	www.monicaBoutique.com	Finest Clothing
14	14	Priya	Welson	8317918278	priya@gmail.com	www.priyaCollection.com	finest clothes collection

---

Inserting into supplierAddress table:

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (1,1,'AntonioStreet','RoseVille','11523');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (2,2,'FirstStreet','Woburn','10923');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (3,3,'Second Street','Framingham','19203');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (4,4,'Cedar Street','SomerVille','10923');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (5,5,'Parch Street','Mankota','10934');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (6,6,'Third Street','Bessemer','29831');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (7,7,'Long street','Atmore','37682');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (8,8,'Sesame street','Auburn','19082');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (9,9,'Fourth street','Clanton','92183');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (10,10,'Marlboro','Arlington','92138');

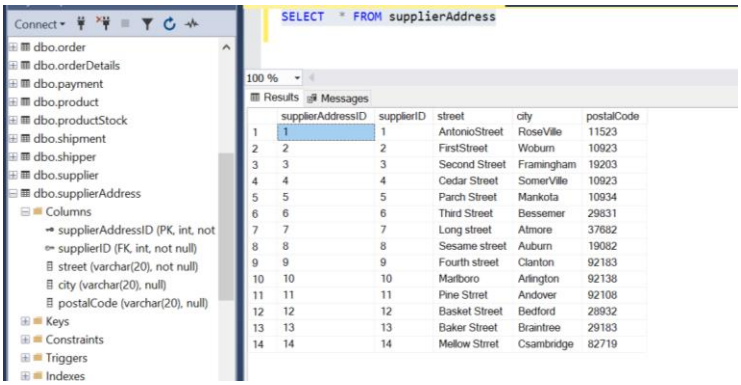
INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (11,11,'Pine Strret','Andover','92108');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (12,12,'Basket Street','Bedford','28932');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (13,13,'Baker Street','Braintree','29183');

INSERT INTO supplierAddress (supplierAddressID, supplierID, street,city, postalCode) VALUES (14,14,'Mellow Strret','Csambridge','82719');

Displaying supplierAddress table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



Inserting into supplies table:

INSERT INTO supplies (supplierID, productID) VALUES (1,1);

INSERT INTO supplies (supplierID, productID) VALUES (2,2);

INSERT INTO supplies (supplierID, productID) VALUES (3,3);

INSERT INTO supplies (supplierID, productID) VALUES (4,4);

INSERT INTO supplies (supplierID, productID) VALUES (5,5);

INSERT INTO supplies (supplierID, productID) VALUES (6,6);

INSERT INTO supplies (supplierID, productID) VALUES (7,7);

INSERT INTO supplies (supplierID, productID) VALUES (8,8);

INSERT INTO supplies (supplierID, productID) VALUES (9,9);

INSERT INTO supplies (supplierID, productID) VALUES (10,10);

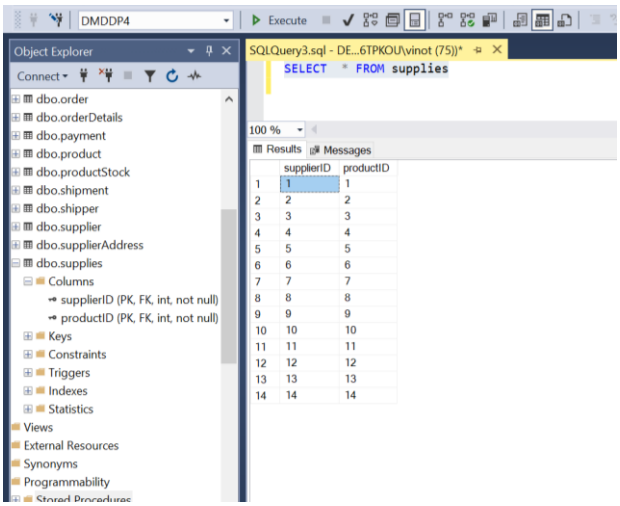
INSERT INTO supplies (supplierID, productID) VALUES (11,11);

INSERT INTO supplies (supplierID, productID) VALUES (12,12);

INSERT INTO supplies (supplierID, productID) VALUES (13,13);

INSERT INTO supplies (supplierID, productID) VALUES (14,14);

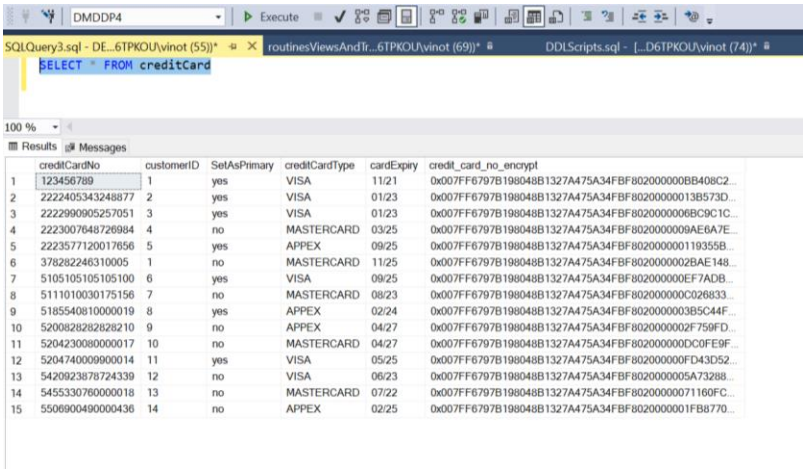
Displaying supplies table: The columns are also displayed in the Object Explorer where the Primary and Foreign keys are depicted.



DATA ENCRYPTION:

```
--CHECK IF ANY KEY EXISTS--
SELECT *
FROM sys.symmetric_keys
WHERE name = '##MS_ServiceMasterKey##';
GO

-- Create database Key
CREATE MASTER KEY ENCRYPTION BY PASSWORD = 'DMDDP4Encrypt';
GO

-- Create self signed certificate
CREATE CERTIFICATE Certificate1
WITH SUBJECT = 'EncryptCreditCardData';
GO

-- Create symmetric Key
CREATE SYMMETRIC KEY SymmetricKey1
 WITH ALGORITHM = AES_128
 ENCRYPTION BY CERTIFICATE Certificate1;
GO


ALTER TABLE creditCard
ADD credit_card_no_encrypt varbinary(MAX) NULL
GO
```

```
-- Opens the symmetric key for use
OPEN SYMMETRIC KEY SymmetricKey1
DECRYPTION BY CERTIFICATE Certificate1;
GO

-- Populating encrypted credit card no into new column
UPDATE creditCard
SET Credit_card_number_encrypt = EncryptByKey
(Key_GUID('SymmetricKey1'),creditCardNo)
FROM creditCard;
GO

-- Closes the symmetric key
CLOSE SYMMETRIC KEY SymmetricKey1;
GO

----CHECK THE NEW ENCRYPTED DATA-------
SELECT * FROM creditCard
```



	creditCardNo	customerID	SetAsPrimary	creditCardType	cardExpiry	credit_card_no_encrypt
1	123456789	1	yes	VISA	11/21	0x007FF6797B198048B1327A475A34FBF802000000BB408C2...
2	2222405343248877	2	yes	VISA	01/23	0x007FF6797B198048B1327A475A34FBF8020000000013B573D...
3	2222990905257051	3	yes	VISA	01/23	0x007FF6797B198048B1327A475A34FBF8020000000 6BC9C1C...
4	2223007648726984	4	no	MASTERCARD	03/25	0x007FF6797B198048B1327A475A34FBF8020000000 9AE6A7E...
5	2223577120017656	5	yes	APPEX	09/25	0x007FF6797B198048B1327A475A34FBF802000000 0119355B...
6	378282246310005	1	no	MASTERCARD	11/25	0x007FF6797B198048B1327A475A34FBF8020000000 2BAE148...
7	5105105105105100	6	yes	VISA	09/25	0x007FF6797B198048B1327A475A34FBF802000000 0EF7ADB...
8	5111010030175156	7	no	MASTERCARD	08/23	0x007FF6797B198048B1327A475A34FBF8020000000 C026833...
9	5185540810000019	8	yes	APPEX	02/24	0x007FF6797B198048B1327A475A34FBF8020000000 3B5C44F...
10	5200828282828210	9	no	APPEX	04/27	0x007FF6797B198048B1327A475A34FBF8020000000 2F759FD...
11	5204230080000017	10	no	MASTERCARD	04/27	0x007FF6797B198048B1327A475A34FBF802000000DC0FE9F...
12	5204740009900014	11	yes	VISA	05/25	0x007FF6797B198048B1327A475A34FBF802000000FD43D52...
13	5420923878724339	12	no	VISA	06/23	0x007FF6797B198048B1327A475A34FBF8020000005A73288...
14	5455330760000018	13	no	MASTERCARD	07/22	0x007FF6797B198048B1327A475A34FBF80200000071160FC...
15	5506900490000436	14	no	APPEX	02/25	0x007FF6797B198048B1327A475A34FBF8020000001FB8770...

STORED PROCEDURES:

STORED PROCEDURE NO:1

Explanation: Gets CustomerID as parameter and displays CUSTOMER INFORMATION and FEEDBACK ON ORDER ID based on the @customer_ID as the input parameter.

```
CREATE PROCEDURE GetCustomerFeedbackWith @customer_ID INT AS
BEGIN
SELECT customerFirstName, customerLastName, customerPhoneNo,
customerEmail, orderID, productRating, shippingRating,
experienceRating
FROM customer, customerFeedback
WHERE [customerFeedback].[customerID] = @customer_ID
AND [customer].[customerID]= @customer_ID;
END
```

Result:

```
EXEC GetCustomerFeedbackWith 2
```

100 %

Results | Messages

	customerFirstName	customerLastName	customerPhoneNo	customerEmail	orderID	productRating	shippingRating	experienceRating
1	Iris	Watson	3725872335	iris@gmail.com	3	2.8	3.5	3.0

STORED PROCEDURE NO:2

Explanation: Gets CustomerID as parameter and displays CUSTOMER INFORMATION and ADDRESS BASED ON THE @customer_ID input parameter

```
CREATE PROCEDURE GetCustomerInformation @customer_ID INT AS
BEGIN
Select customerFirstName, customerLastName, customerPhoneNO,
customerEmail, street, city, postalCode
FROM Customer, customerAddress
WHERE [Customer].[customerID] = @customer_ID and
[customerAddress].[customerID] = @customer_ID;
END
```

Result:

```
EXEC GetCustomerInformation 4
```

00 %

Results | Messages

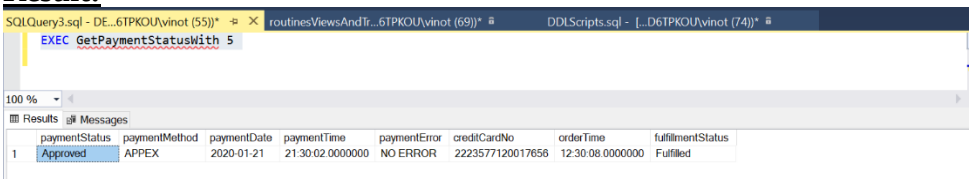
	customerFirstName	customerLastName	customerPhoneNO	customerEmail	street	city	postalCode
1	Theodore	Lowe	7867138616	Theodore@gmail.com	Maple street	Wilmington	05182

STORED PROCEDURE NO:3

Explanation:GETS orderID as parameter and displays PAYMENT STATUS INFORMATION BASED ON THE @order_ID inpur parameter.

```
CREATE PROCEDURE GetPaymentStatusWith @order_ID INT AS
BEGIN
SELECT paymentStatus, paymentMethod, paymentDate, paymentTime,
paymentError,creditCardNo, orderTime, fulfillmentStatus
FROM orderDetails, payment, [order]
WHERE [orderDetails].[orderID] = @order_ID and [payment].[orderID] =
@order_ID and [order].orderID = @order_ID;
END
```

Result:

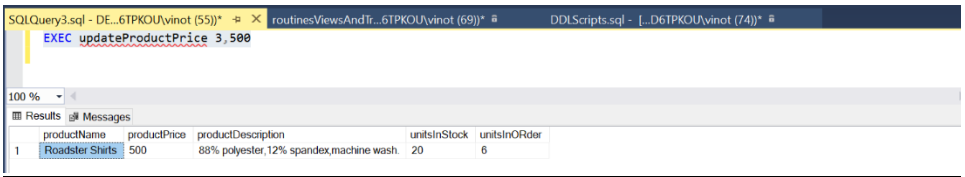


STORED PROCEDURE NO:4

Explanation: Gets productID and new productPrice as parameters and UPDATES PRODUCT PRICE.

```
CREATE PROCEDURE updateProductPrice @product_ID INT, @product_Price
VARCHAR(10) AS
BEGIN
DECLARE @currProductPrice VARCHAR(10);
SET @currProductPrice = (SELECT productPrice from product where
productID = @product_ID);
Update product SET productPrice = @product_Price where productID =
@product_ID;
SELECT productName, productPrice, productDescription, unitsInStock,
unitsInORder FROM product,
productStock WHERE [productStock].[productID] = @product_ID and
[product].[productID] = @product_ID;
END
```

RESULT:

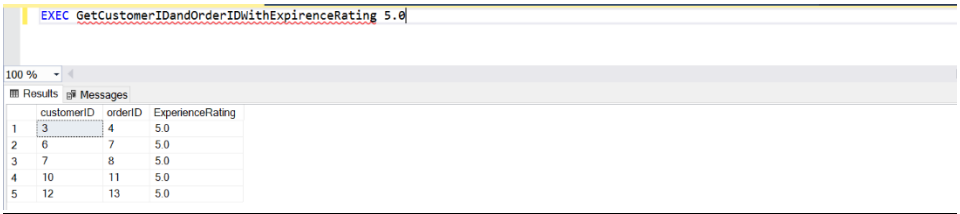


STORED PROCEDURE NO:5

Explanation:
Gets Experience Rating as parameter and displays the CustomerID and the OrderID based on that Experience Rating.

```
CREATE PROCEDURE GetCustomerIDandOrderIDWithExpirenceRating
@Exp_Rating decimal(2,1) AS
BEGIN
SELECT customerID, orderID, ExperienceRating FROM customerFeedback
WHERE [customerFeedback].[ExperienceRating] = @Exp_Rating;
END
```

Result:



TRIGGERS:

Explanation:
This trigger is called on update of the product price. Check if the product price is not less than 0 and not greater that specified limit.

```
CREATE TRIGGER CheckProductPriceChanges
ON product
AFTER UPDATE
AS
    DECLARE @productPrice INT
    SET @productPrice=(select productPrice from inserted)
    IF( @productPrice < 0)
      BEGIN
                UPDATE product SET productPrice = 0
      END
    IF(@productPrice > 10000)
      BEGIN
           UPDATE product SET productPrice=10000
```

```
END
```

Result:

a.When the product price is given below 0, for example, say -5, the price gets updated as 0. This is because of the trigger "`CheckProductPriceChanges`" which checks the update on the price change of the product.

```
EXEC updateProductPrice 3,-5
```

100 %

Results | Messages

	productName	productPrice	productDescription	unitsInStock	unitsInORder
1	Roadster Shirts	0	88% polyester,12% spandex,machine wash.	20	6

b.When the product price is given above 10,000, for example, say 12,000, the price gets updated as 10,000. This is because of the trigger "`CheckProductPriceChanges`" which checks the update on the price change of the product.

```
EXEC updateProductPrice 3,12000
```

100 %

Results | Messages

	productName	productPrice	productDescription	unitsInStock	unitsInORder
1	Roadster Shirts	10000	88% polyester,12% spandex,machine wash.	20	6

VIEWS:

VIEW 1:

Explanation: This view displays all supplier information with their address information

```
CREATE VIEW ShowSupplierInfoAndTheirAddress AS
SELECT supplierFirstName, supplierLastName, supplierPhoneNo,
supplierEmail, supplierUrl, street, city, postalCode
FROM supplier, supplierAddress
WHERE [supplier].[supplierID] = [supplierAddress].[supplierID];
```

Result:

```
Select * FROM ShowSupplierInfoAndTheirAddress
```

100 %

Results | Messages

	supplierFirstName	supplierLastName	supplierPhoneNo	supplierEmail	supplierUrl	street	city	postalCode
1	Tamara	Howe	1213431320	Tamara@gmail.com	www.THSuppliers.com	AntonioStreet	RoseVille	11523
2	Owen	Babara	2233445566	owen@gmail.com	www.OwenSuppliers.com	FirstStreet	Woburn	10923
3	Amara	welson	9087654321	amara@gmail.com	www.amaraBoutique.com	Second Street	Framingham	19203
4	Neha	Kishore	4793284123	neha@gmail.com	www.nehaclothins.com	Cedar Street	SomerVille	10923
5	Ria	Lamba	9283018349	ria@gmail.com	www.riaBoutique.com	Parch Street	Mankota	10934
6	Mark	Mayer	8237138236	mark@gmail.com	www.markSupplies.com	Third Street	Bessemer	29831
7	Leo	Lama	1903892832	Leo@gmail.com	www.leoClothing.com	Long street	Atmore	37682
8	Jane	Corry	8278139217	jane@gmail.com	www.janeBoutique.com	Sesame street	Auburn	19082
9	Kristine	Walker	2837189782	Kristine@gmail.com	www.kristineBoutique.com	Fourth street	Clanton	92183
10	Ariya	Sen	2918382321	ariya@gmail.com	www.ariyaClothing.com	Marlboro	Arlington	92138
11	Maureen	Den	8237923811	maureen@gmail.com	www.maureenClothing.com	Pine Strret	Andover	92108
12	Rachel	Doe	2371837927	rachel@gmail.com	www.rachelDaleClothing.com	Basket Street	Bedford	28932
13	Monica	Fayer	3874923213	monica@gmail.com	www.monicaBoutique.com	Baker Street	Braintree	29183
14	Priya	Welson	8317918278	priya@gmail.com	www.priyaCollection.com	Mellow Strret	Csambridge	82719

VIEW 2:

Explanation: This view displays all product information

```
CREATE VIEW ViewProductInfoWithUnits AS
SELECT productName, categoryID, productPrice, productSize, discount,
productWeight, productPicture, productDescription, unitsInStock,
unitsInOrder
FROM product, productStock
WHERE [product].[productID] = [productStock].[productID];
```

Result:

```
Select * FROM ShowSupplierInfoAndTheirAddress
```

100 %

Results | Messages

	productName	categoryID	productPrice	productSize	discount	productWeight	productPicture	productDescription	unitsInStock	unitsInOrder
1	Mustard T-Shirt	1	0	Small	10%	120gms	/Users/ritz/documents/Database/Homeworks/Project/...	88% Polyster, 12% Spandex, Machine Wash	10	4
2	Mustard T-Shirts	1	0	Large	10%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	88% polyester,12% spandex,machine wash.	10	4
3	Roadster Shirts	2	0	Medium	10%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	88% polyester,12% spandex,machine wash.	20	6
4	Forever Sweaters	3	0	large	10%	120gms	/Users/ritz/documents/Database/Homeworks/Project/...	88% polyester,12% wool, Hand wash.	40	15
5	Forever Sweatshirts	4	0	Medium	10%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% cotton, machine wash.	10	2
6	Forever Sweatshirts	4	0	Medium	10%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% cotton, machine wash.	30	20
7	Forever Sweatshirts	4	0	large	10%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% cotton, machine wash.	35	25
8	Polo Jackets	5	0	medium	10%	150gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% Denim, 10% Cotton machine wash.	30	5
9	Casual Trousers	6	0	medium	20%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% cotton, machine wash.	20	14
10	Jayleane Shorts	7	0	medium	20%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% cotton, machine wash.	25	14
11	Joggers	8	0	medium	20%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% cotton, machine wash.	30	24
12	Dresses	9	0	medium	20%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% cotton, machine wash.	35	4
13	Jumpsuits	10	0	medium	20%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% cotton, machine wash.	40	14
14	Skrits	11	0	medium	20%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% cotton, machine wash.	20	13
15	Shrugs	12	0	medium	20%	130gms	/Users/ritz/documents/Database/Homeworks/Project/...	90% cotton, machine wash.	30	10

VIEW 3:

Explanation: this view displays all customer information with their credit card information

```
CREATE VIEW CustomersAndTheirCreditCards AS
Select customerFirstName, customerLastName, customerPhoneNo,
customerEmail, creditCardNo, creditCardType, setAsPrimary, cardExpiry
FROM Customer, creditCard
WHERE [Customer].[customerID] = [creditCard].[customerID];
```

Result:

Execute

SQLQuery4.sql - DE...6TPKOU\vinot (55))* | routinesViewsAndTr...6TPKOU\vinot (60))

```
select * from CustomersAndTheirCreditCards
```

100 %

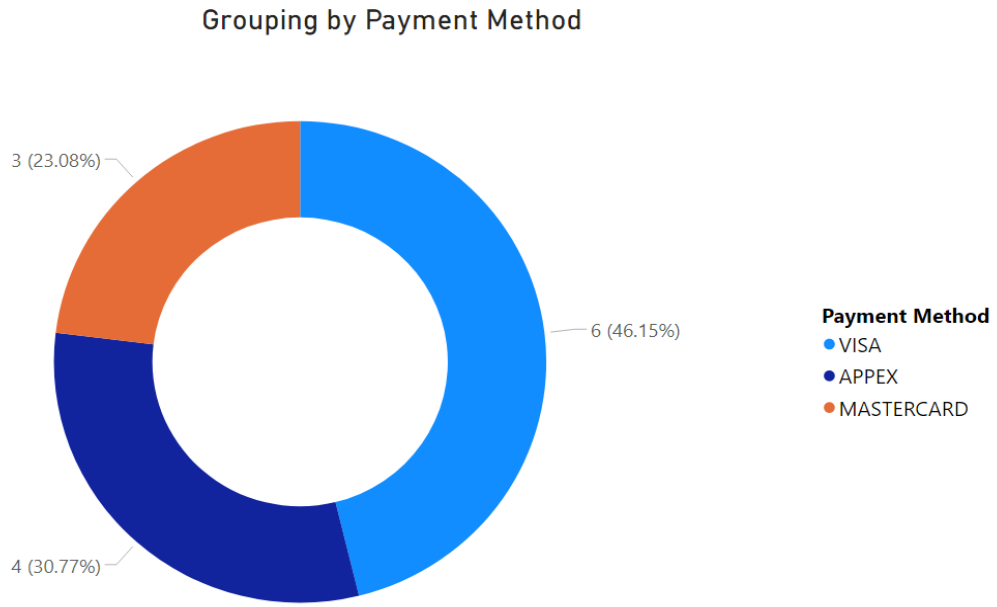
Results | Messages

	customerFirstName	customerLastName	customerPhoneNo	customerEmail	creditCardNo	creditCardType	setAsPrimary	cardExpiry
1	Cecelia	Chapman	8493221093	cecelia@gmail.com	123456789	VISA	yes	11/21
2	Iris	Watson	3725872335	iris@gmail.com	2222405343248877	VISA	yes	01/23
3	Celeste	Slater	7867138616	celeste@gmail.com	2222990905257051	VISA	yes	01/23
4	Theodore	Lowe	7867138616	Theodore@gmail.com	2223007648726984	MASTERCARD	no	03/25
5	Kyla	Olsen	6543935734	kyla@gmail.com	2223577120017656	APPEX	yes	09/25
6	Cecelia	Chapman	8493221093	cecelia@gmail.com	378282246310005	MASTERCARD	no	11/25
7	Hiroko	Potter	3142446306	hiroko@gmail.com	5105105105105100	VISA	yes	09/25
8	Nyssa	Vazquez	9472785929	nyssa@gmail.com	5111010030175156	MASTERCARD	no	08/23
9	Lawrence	Moreno	6845791879	lawrence@gmail.com	5185540810000019	APPEX	yes	02/24
10	Ian	Somerhalder	3142444006	Ian@gmail.com	5200828282828210	APPEX	no	04/27
11	Aaron	Hawkins	6606634518	aaron@gmail.com	5204230080000017	MASTERCARD	no	04/27
12	Hedy	Greene	6082652215	hedy@gmail.com	5204740009900014	VISA	yes	05/25
13	Melvin	Porter	9591198364	melvin@gmail.com	5420923878724339	VISA	no	06/23
14	Keefe	Sellers	4683532641	keefe@gmail.com	5455330760000018	MASTERCARD	no	07/22
15	Joan	Romero	2486754007	joan@gmail.com	5506900490000436	APPEX	no	02/25

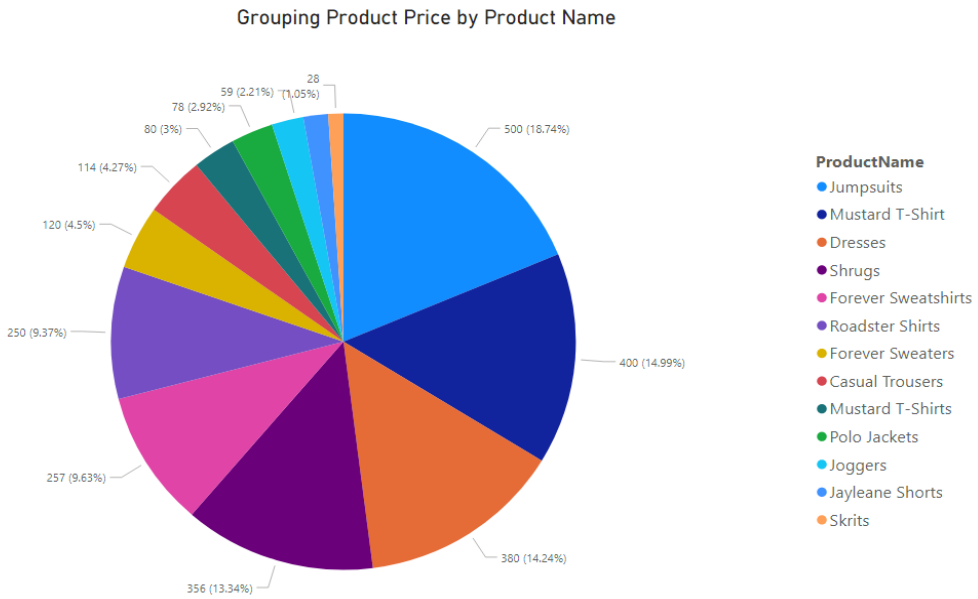
POWER BI VIEWS:

The server and the database were imported in the PowerBI which aided in creating several vies of visualization to present the database.

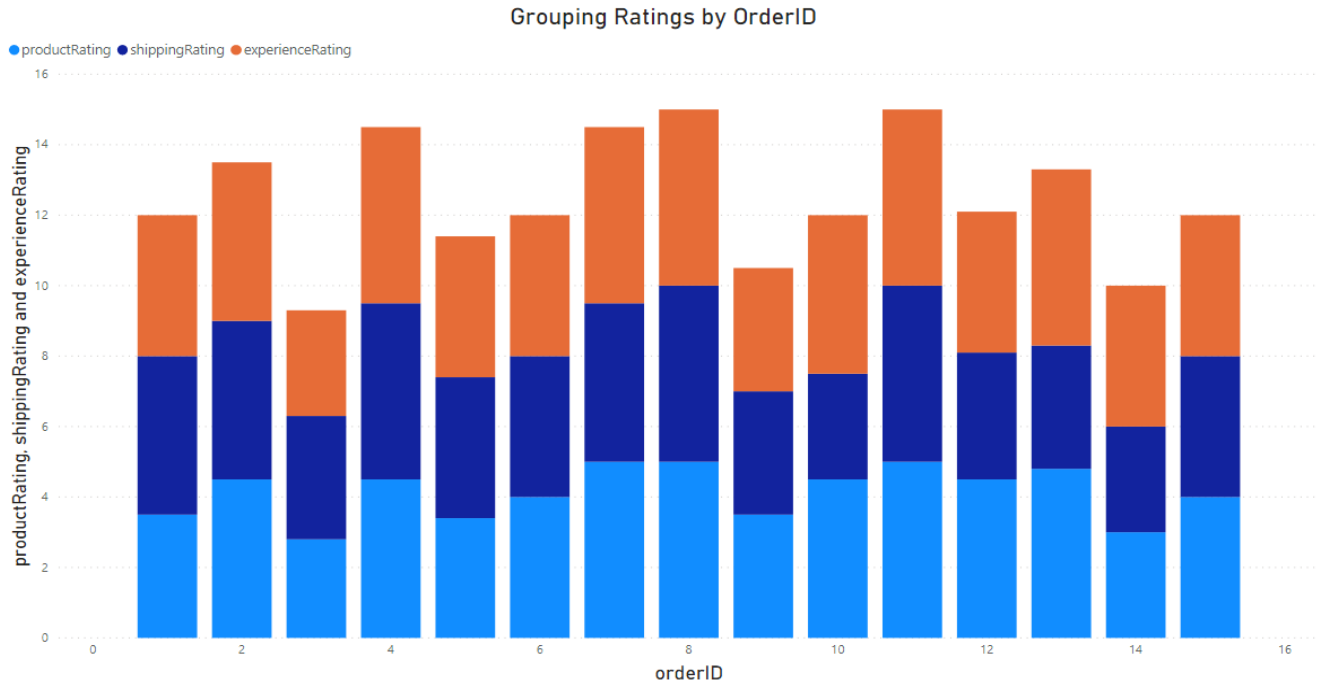
Visualization 1: Displaying the percentage of the payment methods (VISA, APPEX and MASTERCARD. This shows that most of the payments are made by VISA.



Visualization 2: Displaying the Pie chart of the product name based on the price of the product.



Visualization 3: This bar chart helps us to know the different ratings (according to product, shipping and experience) given by the customer , which is grouped by the orderID



Visualization 4: This bar chart helps us to know the count of the products grouped by the product size. We see that the medium size has the highest number (11) of products as per the given data.