**6 COMPLICATED Queries:**

--> Display all products that no one bought

select ProductID, Name

from MakeupProduct

where ProductID not IN (select ProdID from OrderDetails)

--> Display all Orders with the customer's name for all orders shipped in 2017 or orders having MAC products

select OrderNum, FName + ' ' + LName as Name

from OrderDetails, Customer, Orders

where CustomerID = CustID and OrderNumber = OrderNum and DateShipped like '2017-\_\_-\_\_'

UNION

select OrderNum, FName + ' ' + LName as Name

from OrderDetails, Customer, Orders, MakeupProduct

where CustomerID = CustID and OrderNumber = OrderNum and ProdID = ProductID and Name like '%MAC%'

--> Display all customers that live in lebanon and orders from TooFaced

select CustomerID, Fname

from Customer

where ShippingAddress like '%Lebanon%'

Intersect

select CustomerID, Fname

from Customer, Orders, OrderDetails, MakeupProduct

where CustomerID = CustID and OrderNumber = OrderNum and ProdID = ProductID and Name like '%TooFaced%'

--> Display all categories that do not have products

select SerialNum, Type

from Category

where SerialNum not IN (select SerialNumber from MakeupProduct)

--> For each customer display how many product he bought

select CustomerID, Fname, Lname, count(\*) as CountProducts

from Customer, Orders

where CustomerID = CustID

Group by CustomerID, Fname, Lname

--> For product display how many customers bought it , do not display products having less than 2 buyers

select ProductID, Name, count(\*) as CountOrders

from MakeupProduct, OrderDetails

where ProductId = ProdID

Group by ProductID, Name

having count(\*) >= 2

**10 Simple Queries:**

--> Display each customer's info and his/her payment info, products he bought, and the category that the product belongs to

select CustomerID, Lname, Fname, DOB, Gender, PaymentNum, Status, ProductID, Name as ProdName, type

from Customer, Payment, MakeupProduct, Category, Orders, OrderDetails

where CustomerID = Payment.CustID and CustomerID = Orders.CustID and OrderNum = OrderNum and ProductID = ProdID

--> Display customers that live in Lebanon

select CustomerID, Fname, Lname, ShippingAddress

from Customer

where ShippingAddress like'%Lebanon%'

--> Display products that have a price higher than 20$

select ProductID, Name, Price

from MakeupProduct

where Price > 20

--> Display products that has the highest price

select ProductID, Name, Price

from MakeupProduct

where Price >= ALL (select Price from MakeupProduct)

--> Display customers that have orders

select Distinct CustomerID, Fname, Lname

from Customer, Orders

where CustomerID = CustID

--> Display customers that have no shopping carts

select CustomerID, Fname, Lname

from Customer

where CustomerID not IN (select CustID from ShoppingCart)

--> Display Payments that are done by a Master card

select PaymentNum, CreditCardType

from Payment

where CreditCardType = 'Master'

--> Display Payments that are on hold and amount paid is less than 10 $

select PaymentNum, Status, AmountPaid

from Payment

where Status = 'on hold' and AmountPaid < 10

--> Display shopping carts with its customers name that has 2 items

select CartNum, Fname, Lname

from ShoppingCart, Customer

where CustomerID = CustId and ItemQty = 2

--> Insert a new Customer named Colleen with ID 413

Insert into Customer(CustomerID, FName)

values(413,'Colleen')