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4/25/20

CS 6360

Dr. Wili Wu

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Project phase 3 Submission:

**QUERY**

1. **List the details of all the managers of the store in the past two months.**

SELECT DISTINCT P.PID, P.Fname, P.Mname, P.Lname, P.Gender, PH.PhoneNo, PA.AdStreet, PA.AdCity, PA.AdState, A.StoreID, S.StoreName

FROM PERSON AS P, PHONE\_NUMBER AS PH, PRSN\_ADDRESS AS PA, MANAGER AS M, ASSIGNMENT AS A, STORE AS S

WHERE PH.PID=P.PID AND PA.PID=P.PID AND P.PID = M.ManagerPID AND M.ManagerPID = A.EmployeePID AND S.StoreID = A.StoreID

AND A.AssignmentDate >= DATEADD(MONTH, DATEDIFF(MONTH, 0, GETDATE()) - 2, 0)



2. **List customers who have bought all perishable items available in the store.**

SELECT DISTINCT P.PID, P.Fname, P.Mname, P.Lname, P.Gender, PH.PhoneNo, PA.AdStreet, PA.AdCity, PA.AdState

FROM PERSON AS P, PHONE\_NUMBER AS PH, PRSN\_ADDRESS AS PA

WHERE PH.PID=P.PID AND PA.PID=P.PID

AND NOT EXISTS ((

SELECT DISTINCT AR.ProductID

FROM ASSIGNMENT AS ASS, FLOOR\_STAFF AS F,

ARRANGEMENT AS AR, PERI\_PRODUCT AS P

WHERE ASS.EmployeePID = F.FloorStaffPID AND

F.FloorStaffPID = AR.FloorStaffPID AND

AR.ProductID = P.PerishableProductID

GROUP BY ASS.StoreID, AR.ProductID

)

EXCEPT

(

SELECT DISTINCT SO.ProductID

FROM STORE\_ORDER AS SO, PERI\_PRODUCT AS PE

WHERE SO.ProductID = PE.PerishableProductID AND SO.PID = P.PID

GROUP BY SO.StoreID, SO.ProductID

))

GO



3. **Find the average number of purchases made by the top five Gold Customers.**

SELECT AVG(NumOfPurchase) AS AvgPurchase

FROM

(

SELECT P1.PID, COUNT(\*) AS NumOfPurchase

FROM PERSON AS P1, STORE\_ORDER as SO

WHERE P1.PID IN

(

SELECT TOP 5 P.PID AS PID1

FROM PERSON AS P, GOLD\_CUST AS G

WHERE P.PID = G.GoldPID AND

(SELECT COUNT(\*)

FROM STORE\_ORDER as SO

WHERE G.GoldPID = SO.PID AND

SO.DatePurchase >= DATEADD(YEAR, DATEDIFF(YEAR, 0, GETDATE()) - 1, 0)

) >= 12

GROUP BY P.PID

)

AND P1.PID = SO.PID

GROUP BY P1.PID

) AS Counts

GO

A screenshot of a cell phone

Description automatically generated

4. **Find the expiry date of the perishable item that is purchased the most.**

SELECT TOP 1 PE.ExpiraryDate, COUNT(\*)

FROM STORE\_ORDER AS SO, PERI\_PRODUCT AS PE

WHERE SO.ProductID = PE.PerishableProductID

GROUP BY PE.PerishableProductID, PE.ExpiraryDate

ORDER BY COUNT(\*) DESC

A picture containing ball, player, drawing

Description automatically generated

5. **Find the supplier details of products that are out of stock.**

SELECT S.SupplierID, S.SupplierName, S.SupplierLocation, S.SupplierPhoneNo

FROM PRODUCT AS P, SUPPLIER AS S

WHERE P.ProductQuantity = 0 AND P.ProductSupplierID = S.SupplierID

A close up of a sign

Description automatically generated

6. **Find the total number transactions made at each store.**

SELECT COUNT(\*) AS TotalTrans, S.StoreID, S.StoreName

FROM STORE AS S, STORE\_ORDER AS SO

WHERE S.StoreID = SO.StoreID

GROUP BY S.StoreID, S.StoreName

ORDER BY COUNT(\*) DESC

A close up of text on a black background

Description automatically generated

7**. Find the employee details who has worked every day of the past week.**

SELECT DISTINCT PAY.EmployeePID, P.Fname, P.Mname, P.Lname, P.Gender, PH.PhoneNo, PA.AdStreet, PA.AdCity, PA.AdState

FROM PERSON AS P, PHONE\_NUMBER AS PH,

PRSN\_ADDRESS AS PA, EMPLOYEE AS E, PAY AS PAY

WHERE PH.PID=P.PID AND

PA.PID=P.PID AND

E.EmployeePID=P.PID AND

PAY.EmployeePID = E.EmployeePID AND

E.EmployeePID=P.PID AND

PAY.PayDate >= DATEADD(WEEK, DATEDIFF(WEEK, 0, GETDATE()) - 1, 0)

GROUP BY PAY.EmployeePID, P.Fname, P.Mname, P.Lname, P.Gender, PH.PhoneNo, PA.AdStreet, PA.AdCity, PA.AdState

HAVING COUNT(\*) = 7



8. **Find the count of customers who have bought the most popular product.**

SELECT COUNT(NumCust) AS CustBuyPopProd

FROM

(

SELECT SO.PID, COUNT(\*) AS NumCust

FROM STORE\_ORDER AS SO, TOP\_POPULAR\_PRODUCT AS TP

WHERE SO.ProductID = TP.ProductID

GROUP BY SO.PID

) CustList

A picture containing ball, player, white

Description automatically generated

9. **List all transaction details issued after the most current employee was hired.**

SELECT SO.CashierPID, SO.StoreID, SO.ProductID, SO.PID, SO.StoreBillId, SO.BillAmount, SO.DatePurchase, SO.PaymentMethod

FROM STORE\_ORDER AS SO

WHERE SO.DatePurchase >= (

SELECT TOP 1 E.CurrStartDate

FROM EMPLOYEE AS E

ORDER BY E.CurrStartDate DESC

)

A black and silver text on a screen

Description automatically generated

10. **List all the employees that have enrolled as Gold Customer within a month of being employed.**

SELECT DISTINCT P.Fname, P.Mname, P.Lname, P.Gender, PH.PhoneNo, PA.AdStreet, PA.AdCity, PA.AdState

FROM PERSON AS P, PHONE\_NUMBER AS PH, PRSN\_ADDRESS AS PA, EMPLOYEE AS E, GOLD\_CUST AS G

WHERE PH.PID=P.PID AND PA.PID=P.PID AND E.EmployeePID=P.PID AND

E.GoldPID=G.GoldPID AND

G.CardIssueDate BETWEEN E.CurrStartDate AND DATEADD(MONTH, 1, E.CurrStartDate)

A black sign with white text

Description automatically generated

11. **Find the details of the voucher that are purchased the most.**

SELECT V1.VoucherID

FROM VOUCHER AS V1

WHERE V1.VoucherID IN (

SELECT TOP 1 V.VoucherID

FROM VOUCHER AS V, BUY

WHERE V.VoucherID = BUY.VoucherID

GROUP BY V.VoucherID

ORDER BY COUNT(\*) DESC

)

GROUP BY V1.VoucherID

GO

A screenshot of a cell phone

Description automatically generated

12. **Find customers who have been Silver Customer for over 5 years.**

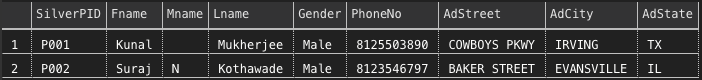
SELECT DISTINCT S.SilverPID, P.Fname, P.Mname, P.Lname, P.Gender, PH.PhoneNo, PA.AdStreet, PA.AdCity, PA.AdState

FROM SILVER\_CUST AS S, PERSON AS P, PHONE\_NUMBER AS PH, PRSN\_ADDRESS AS PA

WHERE PH.PID=P.PID AND PA.PID=P.PID and P.PID=S.SilverPID AND

S.DateOfJoin >= DATEADD(YEAR, DATEDIFF(YEAR, 0, GETDATE()) - 5, 0)

GO



13. **Find the number of purchases made by the potential Gold Members in the last year.**

SELECT PG.PID, COUNT(\*) AS NumOfPurchase

FROM POTENTIAL\_GOLD\_CUST AS PG, STORE\_ORDER AS SO

WHERE PG.PID = SO.PID AND

SO.DatePurchase >= DATEADD(YEAR, DATEDIFF(YEAR, 0, GETDATE()) - 1, 0)

GROUP BY PG.PID

A picture containing ball, player

Description automatically generated

14. **Find the maximum bill amount and details of the store that has the maximum number of purchases in the last year.**

SELECT MAX(SO.BillAmount) AS MaxBillAmount, ST.StoreID, ST.StoreName, ST.StoreState, ST.StoreCity, ST.StoreStreet

FROM STORE AS ST, STORE\_ORDER AS SO

WHERE ST.StoreID IN (

SELECT TOP 1 SO.StoreID

FROM STORE AS S, STORE\_ORDER AS SO

WHERE S.StoreID = SO.StoreID

GROUP BY SO.StoreID

ORDER BY COUNT(\*) DESC

)

GROUP BY ST.StoreID, ST.StoreName, ST.StoreState, ST.StoreCity, ST.StoreStreet

GO

A close up of a sign

Description automatically generated

15**. Find the date of the transaction that has a bill amount greater than the average bill amount of all transactions in the system.**

SELECT SO.DatePurchase, SO.BillAmount

FROM STORE\_ORDER AS SO

WHERE SO.BillAmount >= (

SELECT AVG(SO.BillAmount)

FROM STORE\_ORDER AS SO

)

GO

A close up of text on a white surface

Description automatically generated

**VIEWS:**

1. Top Gold Customer- This view returns the First Name, Last Name and Date of membership enrollment of those gold customers who have transactions more than 12 times in the past year.

CREATE VIEW TOP\_GOLD\_CUST(Fname, Lname, DOMemEnrol) AS

SELECT DISTINCT TOP 1 P.Fname, P.Lname, G.CardExpiraryDate

FROM PERSON AS P, GOLD\_CUST AS G

WHERE P.PID = G.GoldPID AND

(SELECT COUNT(\*)

FROM STORE\_ORDER as SO

WHERE G.GoldPID = SO.PID AND

SO.DatePurchase >= DATEADD(YEAR, DATEDIFF(YEAR, 0, GETDATE()) - 1, 0)

) >= 12

GO

2. Popular Product- This view returns the details of the product that customers have purchased the most in the past 2 years.

CREATE VIEW TOP\_POPULAR\_PRODUCT (NumofItems, ProductID, ProductQuantity, ProductDescription, ProductAgeRestriction, ProductSupplierID) AS

SELECT TOP 1 COUNT(\*) AS NumofItems, P.ProductID, P.ProductQuantity, P.ProductDescription, P.ProductAgeRestriction, P.ProductSupplierID

FROM PRODUCT AS P, STORE\_ORDER AS SO

WHERE P.ProductID = SO.ProductID AND SO.DatePurchase >= DATEADD(YEAR, DATEDIFF(YEAR, 0, GETDATE()) - 2, 0)

GROUP BY P.ProductID, P.ProductQuantity, P.ProductDescription, P.ProductAgeRestriction, P.ProductSupplierID

ORDER BY COUNT(\*) DESC

GO

3. Top Store- This view returns the details of the store that has maximum number of purchases in the last year.

CREATE VIEW TOP\_STORE (NumofItems, StoreID, StoreName, StoreStreet, StoreCity, StoreState) AS

SELECT TOP 1 COUNT(\*) AS NumofItems, S.StoreID, S.StoreName, S.StoreStreet, S.StoreCity, S.StoreState

FROM STORE AS S, STORE\_ORDER AS SO

WHERE S.StoreID = SO.StoreID AND SO.DatePurchase >= DATEADD(YEAR, DATEDIFF(YEAR, 0, GETDATE()) - 1, 0)

GROUP BY S.StoreID, S.StoreName, S.StoreStreet, S.StoreCity, S.StoreState

ORDER BY COUNT(\*) DESC

GO

4. Potential Gold Customers- This view returns the name, phone number and ID of the Silver Customers who bought more than 10 vouchers in the last month.

CREATE VIEW POTENTIAL\_GOLD\_CUST (Fname, Lname, PhoneNo, PID) AS

SELECT DISTINCT P.Fname, P.Lname, PO.PhoneNo, P.PID

FROM PERSON AS P, PHONE\_NUMBER AS PO, SILVER\_CUST AS S, NON\_ONLINE\_CUST AS NC

WHERE PO.PID = P.PID AND P.PID = S.SilverPID AND S.SilverPID = NC.NonOnlinePID

AND

(SELECT COUNT(\*)

FROM BUY as B

WHERE B.NonOnlinePID = NC.NonOnlinePID AND

B.DatePurchase >= DATEADD(MONTH, DATEDIFF(MONTH, 0, GETDATE()) - 1, 0)

) >= 10

GO

5. Top Supplier - This view returns the details of the supplier who has made the most number of supplies of perishable items in the past month.

CREATE VIEW TOP\_SUPPLIER (NumofItems, SupplierID, SupplierName, SupplierLocation, SupplierPhoneNo) AS

SELECT TOP 1 COUNT(\*) AS NumofItems, S.SupplierID, S.SupplierName, S.SupplierLocation, S.SupplierPhoneNo

FROM SUPPLIER AS S, SUPPLY\_DATE AS SD

WHERE S.SupplierID = SD.SupplierID AND SD.SupplyDate >= DATEADD(MONTH, DATEDIFF(MONTH, 0, GETDATE()) - 1, 0)

GROUP BY S.SupplierID, S.SupplierName, S.SupplierLocation, S.SupplierPhoneNo

ORDER BY COUNT(\*) DESC

GO

**TABLE CREATION**

-- 1>Create the Person Table

CREATE TABLE PERSON

(

PID CHAR(4) NOT NULL,

DOB DATE NOT NULL,

Fname VARCHAR(15) NOT NULL,

Mname CHAR DEFAULT NULL,

Lname VARCHAR(15) NOT NULL,

Gender VARCHAR(15) NOT NULL DEFAULT 'Unknown',

CONSTRAINT PER\_PPK

PRIMARY KEY(PID),

CONSTRAINT CHK\_Age

CHECK (YEAR(GETDATE()) - YEAR(DOB) > 16),

CONSTRAINT CHK\_GNDR

CHECK(Gender in ('Male', 'Female', 'Unknown')),

CONSTRAINT CHK\_PID

CHECK (PID LIKE 'P[0-9][0-9][0-9]')

);

GO

-- 2>Create the Phone Number Table

CREATE TABLE PHONE\_NUMBER

(

PID CHAR(4) NOT NULL,

PhoneNo CHAR(10) NOT NULL,

CONSTRAINT PHO\_PPK

PRIMARY KEY(PID, PhoneNo),

CONSTRAINT PHO\_FRK

FOREIGN KEY (PID) REFERENCES PERSON(PID)

ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT CHK\_PhoneNo

CHECK (PhoneNo LIKE '[0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]')

);

GO

-- 3>Create the Address Table

CREATE TABLE PRSN\_ADDRESS

(

PID CHAR(4) NOT NULL,

AdState CHAR(2) NOT NULL,

AdCity VARCHAR(15) NOT NULL,

AdStreet VARCHAR(15) NOT NULL,

CONSTRAINT ADDR\_PPK

PRIMARY KEY(PID, AdState, AdCity, AdStreet),

CONSTRAINT ADDR\_FRK

FOREIGN KEY (PID) REFERENCES PERSON(PID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 4>Create the Silver Customer Table

CREATE TABLE SILVER\_CUST

(

SilverPID CHAR(4) NOT NULL,

DateOfJoin DATE NOT NULL,

CONSTRAINT SILVER\_CUST\_PPK

PRIMARY KEY(SilverPID),

CONSTRAINT SILVER\_CUST\_FRK

FOREIGN KEY (SilverPID) REFERENCES PERSON(PID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 5>Create the Onile Customer Table

CREATE TABLE ONLINE\_CUST

(

OnlinePID CHAR(4) NOT NULL,

Email VARCHAR(15) NOT NULL,

CONSTRAINT ONLINE\_CUST\_PPK

PRIMARY KEY(OnlinePID),

CONSTRAINT ONLINE\_CUST\_FRK

FOREIGN KEY (OnlinePID) REFERENCES SILVER\_CUST(SilverPID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 6>Create the Store Table

CREATE TABLE STORE

(

StoreID INT NOT NULL,

StoreName VARCHAR(10) NOT NULL,

StoreState CHAR(2) NOT NULL,

StoreCity VARCHAR(15) NOT NULL,

StoreStreet VARCHAR(15) NOT NULL,

CONSTRAINT STORE\_PPK

PRIMARY KEY(StoreID)

);

GO

-- 7>Create the StoreContact Table

CREATE TABLE STORE\_CONTACT

(

StoreID INT NOT NULL,

StorePhoneNo CHAR(10) NOT NULL,

CONSTRAINT STORE\_CONTACT\_PPK

PRIMARY KEY(StoreID),

CONSTRAINT STORE\_CONTACT\_FRK

FOREIGN KEY (StoreID) REFERENCES STORE(StoreID)

ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT StorePhoneNo

CHECK (StorePhoneNo LIKE '[0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]')

);

GO

-- 8>Create the Sale Table

CREATE TABLE SALE

(

SaleNum INT NOT NULL,

StoreID INT NOT NULL,

SaleID CHAR(10) NOT NULL,

SaleDescription CHAR(15) NOT NULL,

Duration DATETIME NOT NULL,

CONSTRAINT SALE\_PPK

PRIMARY KEY(SaleNum, StoreID),

CONSTRAINT SALE\_FRK

FOREIGN KEY (StoreID) REFERENCES STORE(StoreID)

ON DELETE CASCADE ON UPDATE CASCADE,

);

GO

-- 9>Create the Voucher Table

CREATE TABLE VOUCHER

(

VoucherID INT NOT NULL,

IssueStoreID INT NOT NULL,

CONSTRAINT VOUCHER\_PPK

PRIMARY KEY(VoucherID, IssueStoreID),

CONSTRAINT VOCUHER\_FRK

FOREIGN KEY (IssueStoreID) REFERENCES STORE\_CONTACT(StoreID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 10>Create the Promotion Table

CREATE TABLE PROMOTION

(

PromotionNum INT NOT NULL,

VoucherID INT NOT NULL,

IssueStoreID INT NOT NULL,

PromotionID INT NOT NULL,

PromotionDetail VARCHAR(30) NOT NULL,

CONSTRAINT PROMOTION\_PPK

PRIMARY KEY (PromotionNum, VoucherID, IssueStoreID),

CONSTRAINT PROMOTION\_FRK

FOREIGN KEY (VoucherID, IssueStoreID) REFERENCES VOUCHER(VoucherID, IssueStoreID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 11>Create the Gold Customer Table

CREATE TABLE GOLD\_CUST

(

GoldPID CHAR(4) NOT NULL,

CardStoreID INT NOT NULL,

CardUniqID INT NOT NULL UNIQUE,

CardInfo VARCHAR(15),

CardIssueDate DATE NOT NULL,

CardExpiraryDate DATE NOT NULL,

CONSTRAINT GOLD\_CUST\_PPK

PRIMARY KEY(GoldPID, CardStoreID, CardUniqID),

CONSTRAINT SILVER\_CUST\_FRK1

FOREIGN KEY (GoldPID) REFERENCES PERSON(PID)

ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT GOLD\_CUST\_FRK2

FOREIGN KEY (CardStoreID) REFERENCES STORE(StoreID)

ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT CHK\_DATE

CHECK( CardIssueDate < CardExpiraryDate)

);

GO

-- 12>Create the Non-Online Customer Table

CREATE TABLE NON\_ONLINE\_CUST

(

NonOnlinePID CHAR(4) NOT NULL,

GoldPID CHAR(4),

CardStoreID INT,

CardUniqID INT,

CONSTRAINT NON\_ONLINE\_CUST\_PPK

PRIMARY KEY(NonOnlinePID),

CONSTRAINT NON\_ONLINE\_CUST\_FRK1

FOREIGN KEY (NonOnlinePID) REFERENCES SILVER\_CUST(SilverPID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT NON\_ONLINE\_CUST\_FRK2

FOREIGN KEY (GoldPID, CardStoreID, CardUniqID) REFERENCES GOLD\_CUST(GoldPID, CardStoreID, CardUniqID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT CHK\_NON\_ONLINE\_CUST\_PID

CHECK (NonOnlinePID = GoldPID)

);

GO

-- 13>Create the Employee Table

CREATE TABLE EMPLOYEE

(

EmployeePID CHAR(4) NOT NULL,

CurrStartDate DATE NOT NULL,

CurrDesignation VARCHAR(15) NOT NULL,

GoldPID CHAR(4),

CardStoreID INT,

CardUniqID INT,

CONSTRAINT EMPLOYEE\_PPK

PRIMARY KEY(EmployeePID),

CONSTRAINT EMPLOYEE\_FRK1

FOREIGN KEY (EmployeePID) REFERENCES PERSON (PID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT EMPLOYEE\_FRK2

FOREIGN KEY (GoldPID, CardStoreID, CardUniqID) REFERENCES GOLD\_CUST(GoldPID, CardStoreID, CardUniqID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT CHK\_EMPLOYEE\_PID

CHECK (EmployeePID = GoldPID),

CONSTRAINT CHK\_EMPLOYEE\_DESIGN

CHECK (CurrDesignation In ('Cashier', 'Manager', 'FloorStaff'))

);

GO

-- 14>Create the Pay Table

CREATE TABLE PAY

(

EmployeePID CHAR(4) NOT NULL,

WorkHour INT NOT NULL,

PayDate DATE NOT NULL,

CONSTRAINT PAY\_PPK

PRIMARY KEY(EmployeePID, WorkHour, PayDate),

CONSTRAINT PAY\_FRK

FOREIGN KEY (EmployeePID) REFERENCES EMPLOYEE (EmployeePID)

ON DELETE CASCADE ON UPDATE CASCADE,

);

GO

-- 15>Create the Past Designation Table

CREATE TABLE PAST\_DESIGNATION

(

EmployeePID CHAR(4) NOT NULL,

StartDate DATE NOT NULL,

Designation VARCHAR(15) NOT NULL,

CONSTRAINT PAST\_DESIGNATION\_PPK

PRIMARY KEY(EmployeePID, StartDate, Designation),

CONSTRAINT PAST\_DESIGNATION\_FRK

FOREIGN KEY (EmployeePID) REFERENCES EMPLOYEE (EmployeePID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 16>Create the Cashier Table

CREATE TABLE CASHIER

(

CashierPID CHAR(4) NOT NULL,

CONSTRAINT CASHIER\_PPK

PRIMARY KEY(CashierPID),

CONSTRAINT CASHIER\_FRK

FOREIGN KEY (CashierPID) REFERENCES EMPLOYEE (EmployeePID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 17>Create the Manager Table

CREATE TABLE MANAGER

(

ManagerPID CHAR(4) NOT NULL,

CONSTRAINT MANAGER\_PPK

PRIMARY KEY(ManagerPID),

CONSTRAINT MANAGER\_FRK

FOREIGN KEY (ManagerPID) REFERENCES EMPLOYEE (EmployeePID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 18>Create the Floor Staff Table

CREATE TABLE FLOOR\_STAFF

(

FloorStaffPID CHAR(4) NOT NULL,

CONSTRAINT FLOOR\_STAFF\_PPK

PRIMARY KEY(FloorStaffPID),

CONSTRAINT FLOOR\_STAFF\_FRK

FOREIGN KEY (FloorStaffPID) REFERENCES EMPLOYEE (EmployeePID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 19>Create the Aisle Table

CREATE TABLE AISLE

(

AisleID INT NOT NULL,

CONSTRAINT AISLE\_PPK

PRIMARY KEY(AisleID)

);

GO

-- 20>Create the Aisle Infor Table

CREATE TABLE AISLE\_INFO

(

AisleID INT NOT NULL,

AisleNumber INT NOT NULL,

Section INT NOT NULL,

CONSTRAINT AISLE\_INFO\_PPK

PRIMARY KEY(AisleID, AisleNumber, Section),

CONSTRAINT AISLE\_INFO\_FRK

FOREIGN KEY (AisleID) REFERENCES AISLE (AisleID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 21>Create the Supplier Table

CREATE TABLE SUPPLIER

(

SupplierID INT NOT NULL,

SupplierName VARCHAR(30) NOT NULL,

SupplierLocation VARCHAR(30) NOT NULL,

SupplierPhoneNo CHAR(10) NOT NULL,

CONSTRAINT SUPPLIER\_PPK

PRIMARY KEY(SupplierID),

CONSTRAINT CHK\_SUPPLIER\_PhoneNo

CHECK (SupplierPhoneNo LIKE '[0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]')

);

GO

-- 22>Create the Product Table

CREATE TABLE PRODUCT

(

ProductID INT NOT NULL,

ProductQuantity INT NOT NULL,

ProductDescription VARCHAR(30) NOT NULL,

ProductAgeRestriction VARCHAR(3),

ProductSupplierID INT NOT NULL,

CONSTRAINT PRODUCT\_PPK

PRIMARY KEY(ProductID),

CONSTRAINT PRODUCT\_FRK

FOREIGN KEY (ProductSupplierID) REFERENCES SUPPLIER (SupplierID)

ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT CHK\_AGE\_RES

CHECK(ProductAgeRestriction in ('Yes', 'No', 'Unknown')),

);

GO

-- 23>Create the Perishables Table

CREATE TABLE PERI\_PRODUCT

(

PerishableProductID INT NOT NULL,

ExpiraryDate DATE NOT NULL,

CONSTRAINT PERI\_PRODUCT\_PPK

PRIMARY KEY(PerishableProductID),

CONSTRAINT PERI\_PRODUCT\_FRK

FOREIGN KEY (PerishableProductID) REFERENCES PRODUCT (ProductID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 24>Create the Non-Perishables Table

CREATE TABLE NON\_PERI\_PRODUCT

(

NonPerishableProductID INT NOT NULL,

CONSTRAINT NON\_PERI\_PRODUCT\_PPK

PRIMARY KEY(NonPerishableProductID),

CONSTRAINT NON\_PERI\_PRODUCT\_FRK

FOREIGN KEY (NonPerishableProductID) REFERENCES PRODUCT (ProductID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 25>Create the Suply Date

CREATE TABLE SUPPLY\_DATE

(

ProductID INT NOT NULL,

SupplierID INT NOT NULL,

SupplyDate DATE NOT NULL,

CONSTRAINT SUPPLY\_DATE\_PPK

PRIMARY KEY(ProductID, SupplierID, SupplyDate),

CONSTRAINT SUPPLY\_DATE\_FRK1

FOREIGN KEY (ProductID) REFERENCES PRODUCT (ProductID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT SUPPLY\_DATE\_FRK2

FOREIGN KEY (SupplierID) REFERENCES SUPPLIER (SupplierID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

);

GO

-- 26>Create the Arrangement Table

CREATE TABLE ARRANGEMENT

(

ProductID INT NOT NULL,

FloorStaffPID CHAR(4) NOT NULL,

AisleID INT NOT NULL,

ArrangementDate DATE NOT NULL,

CONSTRAINT ARRANGEMENT\_PPK

PRIMARY KEY(ProductID, FloorStaffPID, AisleID),

CONSTRAINT ARRANGEMENT\_FRK1

FOREIGN KEY (ProductID) REFERENCES PRODUCT (ProductID)

ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT ARRANGEMENT\_FRK2

FOREIGN KEY (FloorStaffPID) REFERENCES FLOOR\_STAFF (FloorStaffPID)

ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT ARRANGEMENT\_FRK3

FOREIGN KEY (AisleID) REFERENCES AISLE (AisleID)

ON DELETE CASCADE ON UPDATE CASCADE,

);

GO

-- 27>Create the Buy Table

CREATE TABLE BUY

(

NonOnlinePID CHAR(4) NOT NULL,

VoucherID INT NOT NULL,

VoucherIssueStoreID INT NOT NULL,

DatePurchase DATE NOT NULL

CONSTRAINT BUY\_PPK

PRIMARY KEY(NonOnlinePID, VoucherID, VoucherIssueStoreID),

CONSTRAINT BUY\_FRK1

FOREIGN KEY (NonOnlinePID) REFERENCES NON\_ONLINE\_CUST (NonOnlinePID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT BUY\_FRK2

FOREIGN KEY (VoucherID, VoucherIssueStoreID) REFERENCES VOUCHER (VoucherID, IssueStoreID)

ON DELETE NO ACTION ON UPDATE NO ACTION

);

GO

-- 28>Create the Assignment Table

CREATE TABLE ASSIGNMENT

(

EmployeePID CHAR(4) NOT NULL,

AisleID INT NOT NULL,

StoreID INT NOT NULL,

AssignmentDate DATE NOT NULL,

CONSTRAINT ASSIGNMENT\_PPK

PRIMARY KEY(EmployeePID, AisleID, StoreID),

CONSTRAINT ASSIGNMENT\_FRK1

FOREIGN KEY (EmployeePID) REFERENCES EMPLOYEE (EmployeePID)

ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT ASSIGNMENT\_FRK2

FOREIGN KEY (AisleID) REFERENCES AISLE (AisleID)

ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT ASSIGNMENT\_FRK3

FOREIGN KEY (StoreID) REFERENCES STORE (StoreID)

ON DELETE CASCADE ON UPDATE CASCADE

);

GO

-- 29>Create the Given Free Table

CREATE TABLE GIVEN\_FREE

(

GoldPID CHAR(4) NOT NULL,

CardStoreID INT NOT NULL,

CardUniqID INT NOT NULL,

VoucherID INT NOT NULL,

VoucherIssueStoreID INT NOT NULL,

CONSTRAINT GIVEN\_FREE\_PPK

PRIMARY KEY(GoldPID, CardStoreID, CardUniqID, VoucherID, VoucherIssueStoreID),

CONSTRAINT GIVEN\_FREE\_FRK1

FOREIGN KEY (GoldPID, CardStoreID, CardUniqID) REFERENCES GOLD\_CUST(GoldPID, CardStoreID, CardUniqID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT GIVEN\_FREE\_FRK2

FOREIGN KEY (VoucherID, VoucherIssueStoreID) REFERENCES VOUCHER (VoucherID, IssueStoreID)

ON DELETE NO ACTION ON UPDATE NO ACTION

);

GO

-- 30>Create the Works Table

CREATE TABLE WORKS

(

EmployeePID CHAR(4) NOT NULL,

StoreID INT NOT NULL,

CONSTRAINT WORKS\_PPK

PRIMARY KEY(EmployeePID, StoreID),

CONSTRAINT WORKS\_FRK1

FOREIGN KEY (EmployeePID) REFERENCES EMPLOYEE (EmployeePID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT WORKS\_FRK2

FOREIGN KEY (StoreID) REFERENCES STORE (StoreID)

ON DELETE NO ACTION ON UPDATE NO ACTION

);

GO

-- 31>Create the Online Order Table

CREATE TABLE ONLINE\_ORDER

(

OnlinePID CHAR(4) NOT NULL,

ProductID INT NOT NULL,

OnlineBillID INT NOT NULL UNIQUE,

BillAmount INT NOT NULL,

DatePurchase DATE NOT NULL,

PaymentMethod VARCHAR(10) NOT NULL,

CONSTRAINT ONLINE\_ORDER\_PPK

PRIMARY KEY(OnlinePID, ProductID, OnlineBillID),

CONSTRAINT ONLINE\_ORDER\_FRK1

FOREIGN KEY (OnlinePID) REFERENCES ONLINE\_CUST (OnlinePID)

ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT ONLINE\_ORDER\_FRK2

FOREIGN KEY (ProductID) REFERENCES PRODUCT (ProductID)

ON DELETE CASCADE ON UPDATE CASCADE,

);

GO

-- 32>Create the Store Order Table

CREATE TABLE STORE\_ORDER

(

CashierPID CHAR(4) NOT NULL,

StoreID INT NOT NULL,

ProductID INT NOT NULL,

PID CHAR(4) NOT NULL,

StoreBillId INT NOT NULL UNIQUE,

BillAmount INT NOT NULL,

DatePurchase DATE NOT NULL,

PaymentMethod VARCHAR(10) NOT NULL,

CONSTRAINT STORE\_ORDER\_PPK

PRIMARY KEY(CashierPID, StoreID, ProductID, PID, StoreBillId),

CONSTRAINT STORE\_ORDER\_FRK1

FOREIGN KEY (CashierPID) REFERENCES CASHIER (CashierPID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT STORE\_ORDER\_FRK2

FOREIGN KEY (StoreID) REFERENCES STORE\_CONTACT (StoreID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT STORE\_ORDER\_FRK3

FOREIGN KEY(ProductID) REFERENCES PRODUCT (ProductID)

ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT STORE\_ORDER\_FRK4

FOREIGN KEY (PID) REFERENCES PERSON (PID)

ON DELETE NO ACTION ON UPDATE NO ACTION

);

GO

**DATA ENTRY:**

-- Insert data in PERSON TABLE

INSERT INTO PERSON

VALUES

('P001','09-29-1997' ,'Kunal', '', 'Mukherjee', 'Male'),

('P002','06-21-1950' ,'Suraj', 'N', 'Kothawade', 'Male'),

('P003','01-26-1950' ,'Diksha', 'O', 'GodBole', 'Female'),

('P004','08-15-1947' ,'Erin', 'S', 'Leinenbach', 'Female'),

('P005','07-23-1990' ,'Smita', '', 'Ghosh', 'Female'),

('P007','01-01-1990' ,'James', 'F', 'Bond', 'Male'),

('P010','08-09-1997' ,'Minal', 'w', 'Bonde', 'Female'),

('P011','02-17-1950' ,'Abdul', 'K', 'Kalam', 'Male'),

('P012','04-16-1950' ,'Narendra', 'D', 'Modi', 'Male');

GO

-- Insert data in PHONE\_NUMBER TABLE

INSERT INTO PHONE\_NUMBER

VALUES

('P001', '8125503890'),

('P002', '8123546797'),

('P003', '8820893598'),

('P004', '2345046004'),

('P005', '7564990234'),

('P007', '9034758032'),

('P010', '2345043504'),

('P011', '8947789092'),

('P012', '3749823034');

GO

-- Insert data in PRSN\_ADDRESS TABLE

INSERT INTO PRSN\_ADDRESS

VALUES

('P001', 'TX', 'IRVING', 'COWBOYS PKWY'),

('P002', 'IL', 'EVANSVILLE', 'BAKER STREET'),

('P003', 'IN', 'PEORIA', 'STRIP RD'),

('P004', 'IL', 'CHICAGO', 'HWY 500'),

('P005', 'NM', 'DALLAS', 'JESSOR ROAD'),

('P007', 'MO', 'KOLKATA', 'SALT LAKE'),

('P010', 'NM', 'CHICAGO', 'MARY ROAD'),

('P011', 'IL', 'KOLKATA', 'LAMB 500'),

('P012', 'MO', 'DALLAS', 'SALT LAKE');

GO

-- Insert data in SILVER\_CUST TABLE

INSERT INTO SILVER\_CUST

VALUES

('P001', '10-25-2015'),

('P002', '10-22-2023'),

('P003', '06-29-2020');

GO

UPDATE SILVER\_CUST

SET DateOfJoin = '09-04-2010'

WHERE SILVER\_CUST.SilverPID='P003'

GO

-- Insert data in ONLINE\_CUST TABLE

INSERT INTO ONLINE\_CUST

VALUES

('P001', 'KXM6@UTDS.EDU'),

('P002', 'KU@ZAPAK.COM');

GO

-- Insert data in STORE TABLE

INSERT INTO STORE

VALUES

('123', 'BIGBAZAR', 'IL', 'EVANVILLE', 'BAKER ST'),

('124', 'KHOLS', 'TX', 'CHICAGO', 'GULL ST'),

('125', 'WALMART', 'AZ', 'DALLAS', 'FILL ST'),

('126', 'KROGER', 'MI', 'PEORIA', 'TABLE ST'),

('127', 'TARGET', 'FL', 'NOVI', 'MOSS ST');

GO

-- Insert data in STORE\_CONTACT TABLE

INSERT INTO STORE\_CONTACT

VALUES

('123', '8125503890'),

('124', '8123546797'),

('125', '8820893598'),

('126', '2345046004'),

('127', '7564990234');

GO

-- Insert data in SALE TABLE

INSERT INTO SALE

VALUES

('10', '123', '24', 'FOOD', '09-29-2020'),

('11', '124', '24', 'FOOD', '09-12-2020'),

('12', '125', '25', 'TV', '09-06-2020'),

('13', '125', '26', 'XBOX', '02-29-2020');

GO

-- Insert data in VOUCHER TABLE

INSERT INTO VOUCHER

VALUES

('1009', '125'),

('1010', '125'),

('1011', '126'),

('1012', '127'),

('1013', '125'),

('1014', '127'),

('1015', '125'),

('1016', '125'),

('1017', '127'),

('1018', '125'),

('1019', '125'),

('1020', '127'),

('1021', '127');

GO

-- Insert data in PROMOTION TABLE

INSERT INTO PROMOTION

VALUES

('510','1009', '125', 1, '10% OFF'),

('511','1010', '125', 1, '20% OFF'),

('512','1012', '127', 1, '30% OFF');

GO

-- Insert data in GOLD\_CUST TABLE

INSERT INTO GOLD\_CUST

VALUES

('P001','123', '9002', 'FUEL50OFF', '09-06-2010', '05-06-2020'),

('P003','125', '9003', 'PIZZA10OFF', '01-06-2010', '03-04-2020'),

('P007','123', '9000', 'FUEL50OFF', '09-06-2010', '05-06-2020'),

('P005','125', '9001', 'PIZZA10OFF', '01-06-2010', '03-04-2020'),

('P011','127', '9004', 'WATCH10OFF', '05-06-2015', '05-08-2020');

GO

UPDATE GOLD\_CUST

SET CardIssueDate = '06-10-2010'

WHERE GoldPID = 'P011'

GO

-- Insert data in NON\_ONLINE\_CUST TABLE

INSERT INTO NON\_ONLINE\_CUST

VALUES

('P001', 'P001', '123', '9002')

GO

INSERT INTO NON\_ONLINE\_CUST ([NonOnlinePID])

VALUES

('P002')

GO

-- Insert data in EMPLOYEE TABLE

INSERT INTO EMPLOYEE

VALUES

('P011','06-07-2010' , 'Manager', 'P011','127', '9004')

GO

INSERT INTO EMPLOYEE ([EmployeePID],[CurrStartDate],[CurrDesignation])

VALUES

('P010','09-09-2015' , 'Cashier'),

('P012','08-16-2016' ,'FloorStaff')

GO

UPDATE EMPLOYEE

SET CurrStartDate = '03-11-2019'

WHERE EmployeePID = 'P010'

GO

-- Insert data in PAY TABLE

INSERT INTO PAY

VALUES

('P010',15,'06-07-2010'),

('P010',02,'06-08-2010'),

('P010',12,'06-09-2010'),

('P011',34,'07-10-2010'),

('P011',23,'07-09-2010'),

('P011',12,'07-08-2010'),

('P012',11,'06-12-2010'),

('P012',12,'06-13-2010'),

('P012',02,'06-14-2010'),

('P010',12,'04-11-2010'),

('P010',34,'04-12-2010'),

('P010',23,'04-13-2010'),

('P010',12,'04-14-2010'),

('P010',11,'04-15-2010'),

('P010',12,'04-16-2010'),

('P010',02,'04-17-2010'),

('P010',12,'04-11-2020'),

('P010',34,'04-12-2020'),

('P010',23,'04-13-2020'),

('P010',12,'04-14-2020'),

('P010',11,'04-15-2020'),

('P010',12,'04-16-2020'),

('P010',02,'04-17-2020');

GO

-- Insert data in PAST\_DESIGNATION TABLE

INSERT INTO PAST\_DESIGNATION

VALUES

('P010','07-07-2006','Cashier'),

('P010','01-07-2005','FloorStaff'),

('P011','02-03-2009','FloorStaff');

GO

-- Insert data in CASHIER TABLE

INSERT INTO CASHIER

VALUES

('P010')

GO

-- Insert data in MANAGER TABLE

INSERT INTO MANAGER

VALUES

('P011')

GO

-- Insert data in FLOOR\_STAFF TABLE

INSERT INTO FLOOR\_STAFF

VALUES

('P012')

GO

-- Insert data in AISLE TABLE

INSERT INTO AISLE

VALUES

('3800'),

('3801'),

('3802'),

('3803'),

('3804')

GO

-- Insert data in AISLE\_INFO TABLE

INSERT INTO AISLE\_INFO

VALUES

('3800',1,1),

('3800',1,2),

('3801',1,1),

('3801',1,2),

('3801',1,3)

GO

-- Insert data in SUPPLIER TABLE

INSERT INTO SUPPLIER

VALUES

('41','VIMAL','KOLKATA', '5647821287'),

('42','CAPAK','DERJELING','9038592480'),

('43','DELL','SEOUL', '0192783409'),

('44','HP','MUMBAI', '9082349865'),

('45','BP','DHARAVI', '2359875467')

GO

-- Insert data in PRODUCT TABLE

INSERT INTO PRODUCT

VALUES

('451','12','FOOD', 'YES', '41'),

('452','34','GAS','NO','44'),

('453','86','FOOD', 'YES','43'),

('454','46','GAS', 'YES','44'),

('455','45','MOVIE','NO' ,'42'),

('456','0','FOOD', 'NO', '41');

GO

-- Insert data in PERI\_PRODUCT TABLE

INSERT INTO PERI\_PRODUCT

VALUES

('451', '02-27-2020'),

('452', '03-17-2020'),

('453','05-27-2026')

GO

-- Insert data in NON\_PERI\_PRODUCT TABLE

INSERT INTO NON\_PERI\_PRODUCT

VALUES

('454'),

('455')

GO

-- Insert data in SUPPLY\_DATE TABLE

INSERT INTO SUPPLY\_DATE

VALUES

('452', '44', '02-2-2020'),

('452', '44', '04-15-2020'),

('452', '44', '08-15-2019'),

('455', '44', '03-24-2020'),

('455', '44', '03-25-2020'),

('455', '44', '03-26-2020'),

('453', '44', '03-27-2020'),

('453', '42', '03-28-2020'),

('453', '42', '03-29-2020'),

('451', '42', '03-30-2020'),

('451', '42', '04-01-2020'),

('454', '41', '04-01-2020');

-- Insert data in ARRANGEMENT TABLE

INSERT INTO ARRANGEMENT

VALUES

('451', 'P012', '3800','03-15-2020'),

('452', 'P012', '3802','04-17-2020'),

('453', 'P012', '3803', '03-07-2020'),

('455', 'P012', '3803', '03-15-2021')

GO

-- Insert data in BUY TABLE

INSERT INTO BUY

VALUES

('P002', '1009', '125', '02-2-2020'),

('P002', '1011', '126', '04-15-2020'),

('P002', '1012', '127', '08-15-2019'),

('P002', '1013', '125', '03-24-2020'),

('P002', '1014', '127', '03-25-2020'),

('P002', '1015', '125', '03-26-2020'),

('P002', '1016', '125', '03-27-2020'),

('P002', '1017', '127', '03-28-2020'),

('P002', '1018', '125', '03-29-2020'),

('P002', '1019', '125', '03-30-2020'),

('P002', '1020', '127', '04-01-2020'),

('P002', '1021', '127', '04-01-2020'),

('P001', '1018', '125', '03-29-2020');

GO

-- Insert data in ASSIGNMENT TABLE

INSERT INTO ASSIGNMENT

VALUES

('P010','3800','123' ,'04-07-2020'),

('P010','3802','123' ,'04-08-2020'),

('P011','3800','123' ,'04-10-2020'),

('P011','3802','123' ,'04-09-2020'),

('P012','3803','124' ,'04-12-2020'),

('P012','3804','124' ,'04-13-2020'),

('P010','3800','126' ,'04-08-2020'),

('P012','3800','126' ,'04-08-2020');

GO

-- Insert data in GIVEN\_FREE TABLE

INSERT INTO GIVEN\_FREE

VALUES

('P001','123', '9002', '1009', '125'),

('P003','125', '9003', '1012', '127'),

('P007','123', '9000', '1010', '125'),

('P005','125', '9001', '1011', '126'),

('P011','127', '9004', '1011', '126')

GO

-- Insert data in WORKS TABLE

INSERT INTO WORKS

VALUES

('P011', '123'),

('P010', '123'),

('P012', '125')

GO

-- Insert data in ONLINE\_ORDER TABLE

INSERT INTO ONLINE\_ORDER

VALUES

('P001', '451', 1, 12, '06-07-2010', 'Master'),

('P002', '452', 2, 435, '06-08-2010', 'Visa'),

('P001', '452', 3, 67, '06-08-2010', 'Visa'),

('P002', '453', 4, 234, '06-09-2010', 'Master'),

('P001', '453', 5, 345, '06-09-2010', 'Master'),

('P001', '454', 6, 234, '06-10-2010', 'Visa'),

('P001', '454', 7, 100, '06-11-2010', 'Visa')

GO

-- Insert data in STORE\_ORDER TABLE

INSERT INTO STORE\_ORDER

VALUES

('P010', '123', 451,'P001',1, 12, '02-07-2010', 'Master'),

('P010', '123', 455,'P002',2, 435, '03-11-2010', 'Visa'),

('P010', '125', 451,'P001',3, 67, '02-12-2010', 'Visa'),

('P010', '126', 454,'P003',4, 234, '03-09-2010', 'Master'),

('P010', '123', 454,'P001',5, 345, '04-10-2010', 'Master'),

('P010', '126', 452,'P001',6, 234, '05-08-2010', 'Visa'),

('P010', '125', 452,'P005',7, 100, '02-09-2010', 'Visa'),

('P010', '123', 451,'P001',8, 12, '02-07-2019', 'Master'),

('P010', '123', 455,'P002',9, 435, '03-11-2019', 'Visa'),

('P010', '125', 451,'P001',10, 67, '02-12-2019', 'Visa'),

('P010', '126', 454,'P003',11, 234, '03-09-2019', 'Master'),

('P010', '123', 454,'P001',12, 345, '04-10-2019', 'Master'),

('P010', '126', 452,'P001',13, 234, '05-08-2019', 'Visa'),

('P010', '125', 452,'P005',14, 100, '02-09-2019', 'Visa'),

('P010', '123', 451,'P001',15, 12, '02-07-2019', 'Master'),

('P010', '123', 454,'P001',16, 345, '04-10-2019', 'Master'),

('P010', '126', 452,'P001',17, 234, '05-08-2019', 'Visa'),

('P010', '125', 451,'P001',18, 67, '02-12-2019', 'Visa'),

('P010', '123', 454,'P001',19, 345, '04-10-2019', 'Master'),

('P010', '126', 452,'P001',20, 234, '05-08-2019', 'Visa'),

('P010', '123', 454,'P001',21, 345, '04-10-2019', 'Master'),

('P010', '126', 452,'P001',22, 234, '05-08-2019', 'Visa'),

('P010', '123', 454,'P001',23, 345, '04-10-2019', 'Master'),

('P010', '126', 452,'P001',24, 234, '05-08-2019', 'Visa'),

('P010', '123', 454,'P001',25, 345, '04-10-2019', 'Master'),

('P010', '126', 452,'P001',26, 234, '05-08-2019', 'Visa'),

('P010', '126', 451,'P004',27, 12, '08-08-2019', 'Visa'),

('P010', '123', 452,'P004',28, 798, '04-15-2019', 'Master'),

('P010', '126', 453,'P004',29, 443, '03-08-2019', 'Master'),

('P010', '126', 452,'P004',30, 43, '01-08-2019', 'Master')

GO