

SQL QUERY

```
CREATE DATABASE AppXilon;

CREATE TABLE Customer (
C_Id VARCHAR(10) NOT NULL,
C_Name VARCHAR(200) NOT NULL,
C_Phone INT(13) NOT NULL,
C_Password VARCHAR(200) NOT NULL,
C_Occupation VARCHAR(30) NOT NULL,
C_Gender VARCHAR(20) NOT NULL,
C_BirthDate DATE NOT NULL,
C_Email VARCHAR(100) NOT NULL,
PRIMARY KEY (C_Id)
);

CREATE TABLE Customer_Address (
C_Id VARCHAR(10) Not Null,
CA_Id VARCHAR(10) not Null,
Street_1 VARCHAR(50) Not Null,
Street_2 VARCHAR(50),
Passcode INT(5) Not Null,
City VARCHAR(20) Not Null,
State VARCHAR(20) Not Null,
PRIMARY KEY (C_Id, CA_Id),
CONSTRAINT FK_CUSTOMER_ADDRESS FOREIGN KEY (C_Id) REFERENCES
Customer(C_Id)
);

CREATE TABLE Credit_Card_Info (
C_Id VARCHAR(10) NOT NULL,
CC_Number INT(16) NOT NULL,
CC_Bank VARCHAR(20) NOT NULL,
CC_Type VARCHAR(20) NOT NULL,
PRIMARY KEY (C_Id, CC_Number),
CONSTRAINT FK_CREDIT_CARD_INFO FOREIGN KEY (C_Id)
REFERENCES Customer(C_Id)
);

CREATE TABLE Chatbot (
Q_Id VARCHAR(10) NOT NULL,
Query VARCHAR(200) NOT NULL,
Reply VARCHAR(200) NOT NULL,
PRIMARY KEY (Q_Id)
);
```

```
CREATE TABLE Chat_Customer (  
  C_Id VARCHAR(10) NOT NULL,  
  Q_Id VARCHAR(10) NOT NULL,  
  Chat_DateTime DATETIME NOT NULL,  
  PRIMARY KEY (Q_Id, C_Id),  
  CONSTRAINT FK_CHAT_CUSTOMER_1 FOREIGN KEY (C_Id)  
  REFERENCES Customer(C_Id)  
  CONSTRAINT FK_CHAT_CUSTOMER_2 FOREIGN KEY (Q_Id)  
  REFERENCES Chatbot(Q_Id)  
);
```

```
CREATE TABLE Cart (  
  Cart_Id VARCHAR(10) NOT NULL,  
  C_Id VARCHAR(10) NOT NULL,  
  Subtotal DOUBLE NOT NULL,  
  PRIMARY KEY (Cart_Id),  
  CONSTRAINT FK_CART FOREIGN KEY (C_Id)  
  REFERENCES Customer(C_Id)  
);
```

```
CREATE TABLE Restaurant_Table (  
  T_Id VARCHAR(10) NOT NULL,  
  T_Pax INT(20) NOT NULL,  
  T_Position VARCHAR(20) NOT NULL,  
  T_Status VARCHAR(20) NOT NULL,  
  PRIMARY KEY (T_Id)  
);
```

```
CREATE TABLE Payment_Info (  
  PM_Id VARCHAR(10) NOT NULL,  
  PM_Type INT(20) NOT NULL,  
  PM_Cashier VARCHAR(128) NOT NULL,  
  PM_Status VARCHAR(20) NOT NULL,  
  PRIMARY KEY (PM_Id)  
);
```

```
CREATE TABLE Delivery (  
  D_Id VARCHAR(10) NOT NULL,  
  D_Charge DOUBLE(10) NOT NULL,  
  D_DateTime DATETIME NOT NULL,  
  D_Status VARCHAR(30) NOT NULL,  
  PRIMARY KEY (D_Id)  
);
```

```
CREATE TABLE Cust_Order (  
  O_Id VARCHAR(10) NOT NULL,
```

```

C_Id VARCHAR(10) NOT NULL,
T_Id VARCHAR(10) NOT NULL,
D_Id VARCHAR(10) NOT NULL,
PM_Id VARCHAR(10) NOT NULL,
O_DateTime DATETIME NOT NULL,
Dine_DateTime DATETIME,
O_Total DOUBLE NOT NULL,
O_Type VARCHAR(30) NOT NULL
O_Status VARCHAR(30) NOT NULL,
PRIMARY KEY (O_Id),
CONSTRAINT FK_CUST_ORDER_1 FOREIGN KEY (C_Id)
REFERENCES Customer(C_Id),
CONSTRAINT FK_CUST_ORDER_2 FOREIGN KEY (T_Id)
REFERENCES Restaurant_Table(T_Id),
CONSTRAINT FK_CUST_ORDER_3 FOREIGN KEY (D_Id)
REFERENCES Delivery(D_Id),
CONSTRAINT FK_CUST_ORDER_4 FOREIGN KEY (PM_Id)
REFERENCES Payment_Info(PM_Id)
);

```

```

CREATE TABLE Shop (
S_Id VARCHAR(10) NOT NULL,
S_Name VARCHAR(128) NOT NULL,
S_Desc VARCHAR(128) NOT NULL,
S_TermCond VARCHAR(128) NOT NULL,
PRIMARY KEY (S_ID)
);

```

```

CREATE TABLE Shop_Industry_Category (
S_Id VARCHAR(10) NOT NULL,
SI_Category VARCHAR(50) NOT NULL,
SI_Desc VARCHAR(128) NOT NULL,
PRIMARY KEY (S_Id, SI_Category),
CONSTRAINT FK_SHOP_INDUSTRY_CATEGORY FOREIGN KEY (S_Id)
REFERENCES Shop(S_Id)
);

```

```

CREATE TABLE Shop_Business_Hour (
S_Id VARCHAR(10) NOT NULL,
Day_of_Week VARCHAR(20) NOT NULL,
Status VARCHAR(20) NOT NULL,
Start_Time DATETIME NOT NULL,
End_Time DATETIME NOT NULL,
PRIMARY KEY (S_Id, Day_Of_Week),
CONSTRAINT FK_SHOP_BUSINESS_HOUR FOREIGN KEY (S_Id)
REFERENCES Shop(S_Id)
);

```

```
);
```

```
CREATE TABLE Product (  
  P_Id VARCHAR(10) NOT NULL,  
  O_Id VARCHAR(10) NOT NULL,  
  S_Id VARCHAR(10) NOT NULL,  
  P_Name VARCHAR(50) NOT NULL,  
  P_Price DOUBLE NOT NULL,  
  R_Image VARBINARY(MAX),  
  P_Desc VARCHAR(50) NOT NULL,  
  P_Discount VARCHAR(10),  
  P_Disc_Price DOUBLE,  
  PRIMARY KEY (P_Id),  
  CONSTRAINT FK_PRODUCT_1 FOREIGN KEY (O_Id)  
  REFERENCES Cust_Order(O_Id),  
  CONSTRAINT FK_PRODUCT_2 FOREIGN KEY (S_Id)  
  REFERENCES Shop(S_Id)  
);
```

```
CREATE TABLE Product_Category (  
  P_Id VARCHAR(10) NOT NULL,  
  PC_Category VARCHAR(50) NOT NULL,  
  PC_Desc VARCHAR(20) NOT NULL,  
  PRIMARY KEY (P_Id, PC_Category),  
  CONSTRAINT FK_PRODUCT_CATEGORY FOREIGN KEY (P_Id)  
  REFERENCES Product(P_Id)  
);
```

```
CREATE TABLE Review (  
  R_Id VARCHAR(10) NOT NULL,  
  C_Id VARCHAR(10) NOT NULL,  
  O_Id VARCHAR(10) NOT NULL,  
  P_Id VARCHAR(10) NOT NULL,  
  R_Comment VARCHAR(200),  
  R_Rate TINYINT(1) NOT NULL,  
  R_Image VARBINARY(MAX),  
  R_DateTime TIMESTAMP NOT NULL,  
  PRIMARY KEY (R_Id),  
  CONSTRAINT FK_REVIEW_1 FOREIGN KEY (O_Id)  
  REFERENCES Cust_Order(O_Id),  
  CONSTRAINT FK_REVIEW_2 FOREIGN KEY (P_Id)  
  REFERENCES Product(P_Id),  
  CONSTRAINT FK_REVIEW_1 FOREIGN KEY (O_Id)  
  REFERENCES Cust_Order(O_Id),  
  CONSTRAINT FK_REVIEW_3 FOREIGN KEY (R_Id)
```

```
REFERENCES Review(R_Id)
);
```

```
CREATE TABLE Cart_Item (
C_Id VARCHAR(10) NOT NULL,
P_Id VARCHAR(10) NOT NULL,
CI_Quantity INT NOT NULL,
CI_Price NOT NULL,
PRIMARY KEY (C_Id, P_Id),
CONSTRAINT FK_CART_ITEM_1 FOREIGN KEY (C_Id)
REFERENCES Customer(C_Id),
CONSTRAINT FK_CART_ITEM_2 FOREIGN KEY (P_Id)
REFERENCES Product(P_Id)
);
```

```
CREATE TABLE Manager (
M_Id VARCHAR (10) NOT NULL,
M_Name VARCHAR(20) NOT NULL,
M_Email VARCHAR(20) NOT NULL,
M_Password VARCHAR(20) NOT NULL,
PRIMARY KEY (M_Id)
);
```

```
CREATE TABLE Manager_Address (
M_Id VARCHAR(10) NOT NULL,
MA_Id VARCHAR(10) NOT NULL,
Street_1 VARCHAR(50) NOT NULL,
Street_2 VARCHAR(50),
Passcode INT(5) NOT NULL,
City VARCHAR(20) NOT NULL,
State VARCHAR(20) NOT NULL,
PRIMARY KEY (M_Id, MA_Id),
CONSTRAINT FK_MANAGAER_ADDRESS FOREIGN KEY (M_Id)
REFERENCES Manager(M_Id)
);
```

```
CREATE TABLE Promotion (
PR_Id VARCHAR(10) NOT NULL,
M_Id VARCHAR(10) NOT NULL,
PR_Name VARCHAR(200) NOT NULL,
PR_Desc VARCHAR(200) NOT NULL,
PR_DateTime DATETIME NOT NULL,
PR_Image VARBINARY(MAX),
PRIMARY KEY (PR_Id),
CONSTRAINT FK_PROMOTION FOREIGN KEY (M_Id)
REFERENCES Manager(M_Id)
```

```
);
```

```
CREATE TABLE Admin (  
  A_Id VARCHAR(10) NOT NULL,  
  A_Name VARCHAR(20) NOT NULL,  
  A_Email VARCHAR(20) NOT NULL,  
  A_Password VARCHAR(20) NOT NULL,  
  PRIMARY KEY (A_Id)  
);
```

```
CREATE TABLE Admin_Address (  
  A_Id VARCHAR(10) NOT NULL,  
  AA_Id VARCHAR(10) NOT NULL,  
  Street_1 VARCHAR(50) NOT NULL,  
  Street_2 VARCHAR(50),  
  Passcode INT(5) NOT NULL,  
  City VARCHAR(20) NOT NULL,  
  State VARCHAR(20) NOT NULL,  
  PRIMARY KEY (A_Id, AA_Id),  
  CONSTRAINT FK_ADMIN_ADDRESS FOREIGN KEY (A_Id)  
  REFERENCES Admin(A_Id)  
);
```

```
CREATE TABLE FAQ (  
  FAQ_Id VARCHAR (10) NOT NULL,  
  FAQ_Category VARCHAR (20) NOT NULL,  
  FAQ_Question VARCHAR (20) NOT NULL,  
  FAQ_Answer VARCHAR(128) NOT NULL,  
  PRIMARY KEY (FAQ_Id)  
);
```

```
/*  
logname: event name [delete, insert, update] on table [Cust_Order,  
Product, Customer, Delivery, Shop]  
log description: event description [on affected row or id]  
author: prepared by who?  
datetime  
*/
```

```
CREATE TABLE Log (  
  Log_Event_Name VARCHAR (20) NOT NULL,  
  Log_Module VARCHAR(50) NOT NULL,  
  Log_Description VARCHAR(120) NOT NULL,  
  Log_Author VARCHAR (20) NOT NULL,  
  Log_DateTime DATETIME NOT NULL,  
);
```

MySQL audit logging using triggers reference:

<https://vladmihalcea.com/mysql-audit-logging-triggers/>