UNIVERSIDAD YACHAY TECH

SCHOOL OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

DATA BASES
Project Advance 1

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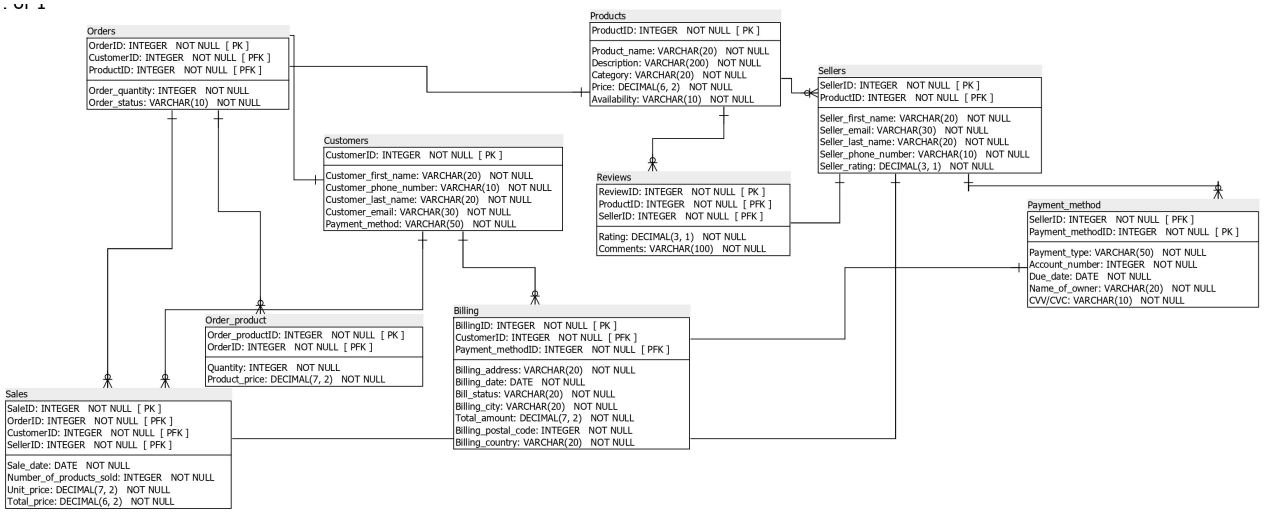
1 Database Design



2 Implement in MySQL

```
1
2  CREATE TABLE Customers (
3    CustomerID INT PRIMARY KEY,
4    Customer_first_name VARCHAR(20),
5    Customer_last_name VARCHAR(20),
6    Customer_phone_number VARCHAR(10),
7    Customer_email VARCHAR(30),
8    Payment_Information VARCHAR(20)
9  );
10
11 CREATE TABLE Products (
12   ProductID INT PRIMARY KEY,
13   product_name VARCHAR(20),
14   Description VARCHAR(20),
15   Category VARCHAR(10),
16   Price DECIMAL(6,2),
17   Availability VARCHAR(20)
18 );
19
20 CREATE TABLE Orders (
21   OrderID INT PRIMARY KEY,
22   Order_quantity INT,Order_status VARCHAR(10),
23   CustomerID INT,
24   ProductID INT,
25   FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID),
26   FOREIGN KEY (ProductID) REFERENCES Products(ProductID)
27 );
28
29 CREATE TABLE Reviews (
30   ReviewID INT PRIMARY KEY,
31   SellerID INT,
32   ProductID INT,
33   Rating DECIMAL(3,1),
34   Comments VARCHAR(100),
35   FOREIGN KEY (ProductID) REFERENCES Products(ProductID),
36   FOREIGN KEY (SellerID) REFERENCES Sellers(SellerID)
37 );
38
39
40 CREATE TABLE Sellers (
41   SellerID INT PRIMARY KEY,
42   ProductID INT,
43   Seller_name VARCHAR(20),
44   Seller_email VARCHAR(30),
45   Seller_phone_number VARCHAR(10),
46   Seller_rating DECIMAL(3,1),
47   FOREIGN KEY (ProductID) REFERENCES Products(ProductID)
48 );
49
50 CREATE TABLE Payment_method (
51   Payment_methodID INT PRIMARY KEY,
52   Payment_type VARCHAR(50),
53   Account_number VARCHAR(30),
54   Due_date DATE,
55   CVV_CVC VARCHAR(4),
56   SellerID INT,
57   FOREIGN KEY (SellerID) REFERENCES Sellers(SellerID)
```

```
);

CREATE TABLE Billing (
  BillingID INT PRIMARY KEY,
  Payment_methodID INT,
  CustomerID INT,
  Billing_address VARCHAR(20),
  Billing_date DATE,
  Total_amount DECIMAL(7,2),
  Billing_city VARCHAR(20),
  Billing_postal_code INT,
  Billing_country VARCHAR(20),
  FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID),
  FOREIGN KEY (Payment_methodID) REFERENCES Payment_method(
    Payment_methodID)
);

CREATE TABLE Sales (
  SaleID INT PRIMARY KEY,
  OrderID INT,
  CustomerID INT,
  SellerID INT,
  Sale_date DATE,
  Number_of_products_sold INT,
  Unit_price DECIMAL(7,2),
  Total_price DECIMAL(6,2),
  FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),
  FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID),
  FOREIGN KEY (SellerID) REFERENCES Sellers(SellerID)
);

CREATE TABLE Order_product (
  Order_prodcutID INT PRIMARY KEY,
  OrderID INT,
  Quantity INT,
  Product_price DECIMAL(7,2),
  FOREIGN KEY (OrderID) REFERENCES Orders(OrderID)
);
```

3 GUI design drafts

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