DATABASE IMPLEMENTATION

Creating DATABASE and TABLES :

CREATE DATABASE OnlineShopping;

Use OnlineShopping;

```
CREATE TABLE Customer
(
    CustomerID int IDENTITY(1, 1) PRIMARY KEY,
    FirstName varchar(255) NOT NULL,
    LastName varchar(255) NOT NULL,
    DOB date NOT NULL,
    Email varchar(255) NOT NULL,
    Password varchar(255) NOT NULL,
    Contact varchar(255) NOT NULL
);

CREATE TABLE Country
(
    CountryID int IDENTITY(1, 1) PRIMARY KEY,
    CountryName varchar(255) NOT NULL
);

CREATE TABLE Province
(
    ProvinceID int IDENTITY(1, 1) PRIMARY KEY,
    ProvinceName varchar(255) NOT NULL
);

CREATE TABLE City
(
    CityID int IDENTITY(1, 1) PRIMARY KEY,
    CityName varchar(255) NOT NULL
);

CREATE TABLE ZipCode
(
    ZipCodeID int IDENTITY(1, 1) PRIMARY KEY,
    CityID int FOREIGN KEY REFERENCES City(CityID) NOT NULL,
    ProvinceID int FOREIGN KEY REFERENCES Province(ProvinceID) NOT
NULL,
```

```sql
    CountryID int FOREIGN KEY REFERENCES Country(CountryID) NOT
NULL
);

CREATE TABLE Address
(
    AddressID int IDENTITY(1, 1) PRIMARY KEY,
    HouseNo varchar(255) NOT NULL,
    Street int NOT NULL,
    CustomerID int FOREIGN KEY REFERENCES Customer(CustomerID)
NOT NULL,
    ZipCodeID int FOREIGN KEY REFERENCES ZipCode(ZipCodeID) NOT
NULL,
    Area varchar(255) NOT NULL
);


CREATE TABLE Category
(
    CategoryID int IDENTITY(1, 1) PRIMARY KEY,
    CategoryName varchar(255) NOT NULL
);

CREATE TABLE Vendor
(
    VendorID int IDENTITY(1, 1) PRIMARY KEY,
    Name varchar(255) NOT NULL,
    Address text NOT NULL,
    Email varchar(255) NOT NULL,
    Password varchar(255) NOT NULL,
    Contact varchar(255) NOT NULL
);

CREATE TABLE Product
(
    ProductID int IDENTITY(1, 1) PRIMARY KEY,
    ProductName varchar(255) NOT NULL,
    CategoryID int FOREIGN KEY REFERENCES Category(CategoryID)
NOT NULL
);

CREATE TABLE VendorProduct
(
    VendorProductID int IDENTITY(1, 1) PRIMARY KEY,
```

```
        VendorID int FOREIGN KEY REFERENCES Vendor(VendorID) NOT
NULL,
    ProductID int FOREIGN KEY REFERENCES Product(ProductID) NOT
NULL,
    Price decimal(19, 2) NOT NULL,
    Quantity int NOT NULL,
    Description text NOT NULL
);

CREATE TABLE Courier
(
    CourierID int IDENTITY(1, 1) PRIMARY KEY,
    Name varchar(255) NOT NULL,
    Contact varchar(255) NOT NULL
);

CREATE TABLE VendorCourier
(
    VendorCourierID int IDENTITY(1, 1) PRIMARY KEY,
     VendorID int FOREIGN KEY REFERENCES Vendor(VendorID) NOT
NULL,
     CourierID int FOREIGN KEY REFERENCES Courier(CourierID) NOT
NULL
);
```