**BOV-DB Database Design and Tables**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Catagories**  CategoryID(Pk)  CategoryName(unique key)  Description  ImageUrl | **Products**  ProductID(pk)  ProductName(unique key)  CategoryID(fk)  ImageUrl  Description  Quantity  purchasedPrice  profitPercentage  Discount  sellingPrice | **Invoices**  InvoiceID(pk)  UserID(fk)  InvoiceDate  Address  PostCode  City  PhoneNumber | **UserDetails**  userDetailID(pk)  UserID(unique)  FirstName  LastName | **Orders**  OrderID(pk)  InvoiceID(pk)  productid(fk)  Quantity  soldUnitPrice  SoldUnitDiscount |
| **Suppliers**  SupplierID(pk)  CompanyName  contactPerson  address  city  postCode  Phone no  Email(uk) | **UserReviews**  UserReviewID(pk)  ProductID(fk)  UserID(fk)  Review  Rating  PostDate | **Purchased Products**  purchasedProductID(pk)  purchaseID(fk)  productid(fk)  PurchaseQuantity  PurchasePrice | **Purchases**  PurchaseID(pk)  PurchaseDate  SupplierID(fk)  UserID(fk) |  |
|  |  |  | **Shipping**  shippingID(pk)  userID(fk)  orderID(fk)  Address  AmoutPaid  PaymentType | **OrderStatus**  OrderStatusId(pk)  OrderStatus |

**Queries for sql server:**

create database boxofvegsDB

use boxofvegsDB

create table categories

(

categoryID int not null identity primary key,

categoryName varchar(50) not null unique,

description varchar(500),

imageUrl nvarchar(500)

)

create table products

(

productID int not null identity primary key,

productName varchar(50) not null unique,

description varchar(500),

imageUrl nvarchar(500),

quantity int

purchasedPrice decimal(18,2),

profitPercentage int,

discount int,

sellingPrice decimal(18,2),

categoryID int not null foreign key references categories (categoryID)

)

create table userDetails

(

userDetailID int not null identity primary key,

userID (nvarchar(128) not null unique,

firstName varchar(50) not null,

lastName varchar(50) not null,

)

create table invoices

(

invoiceID int not null primary key identity,

userDetailID int not null foreign key references userDetails(userDetailID),

date datetime not null,

address nvarchar(500) not null,

city nvarchar(500) not null,

postCode nvarchar(20) not null,

PhoneNo varchar(15) not null

)

create table orders

(

orderID int not null primary key identity,

invoiceID int not null foreign key references invoices(invoiceID),

productID int not null foreign key references products (productID),

quantity int not null,

soldUnitPrice decimal(18,2) not null,

soldUnitDiscount int

)

create table userReviews

(

userReviesID int not null identity primary key,

review nvarchar(500),

rating float,

reviewDate datetime not null,

productID int not null foreign key references products (productID),

userID int not null foreign key references users (userID)

)

create table suppliers

(

supplierID int not null identity primary key,

companyName varchar (50) not null,

contactPerson varchar(50),

address nvarchar(500) not null,

city nvarchar(500) not null,

postCode nvarchar(20) not null,

PhoneNo varchar(15) not null,

email nvarchar(500) not null unique

)

create table purchases

(

purchaseID int not null identity primary key,

purchaseDate datetime not null,

supplierID int not null foreign key references suppliers (supplierID),

userID int not null foreign key references users (userID)

)

create table purchasedProducts

(

purchasedProductID int not null identity primary key,

purchaseID int not null foreign key references purchases (purchaseID),

productID int not null foreign key references products (productID),

quantity int not null,

purchasedPrice decimal(18,2)

)