Relational Schema

User(E mail, Username, First_name, Last_name, Password)

Customer(CEmail, Points)

Customer.CEmail references User.

Vendor(VEmail, Company_name, Bank_account_number, AEmail)

Vendor.VEmail references User.
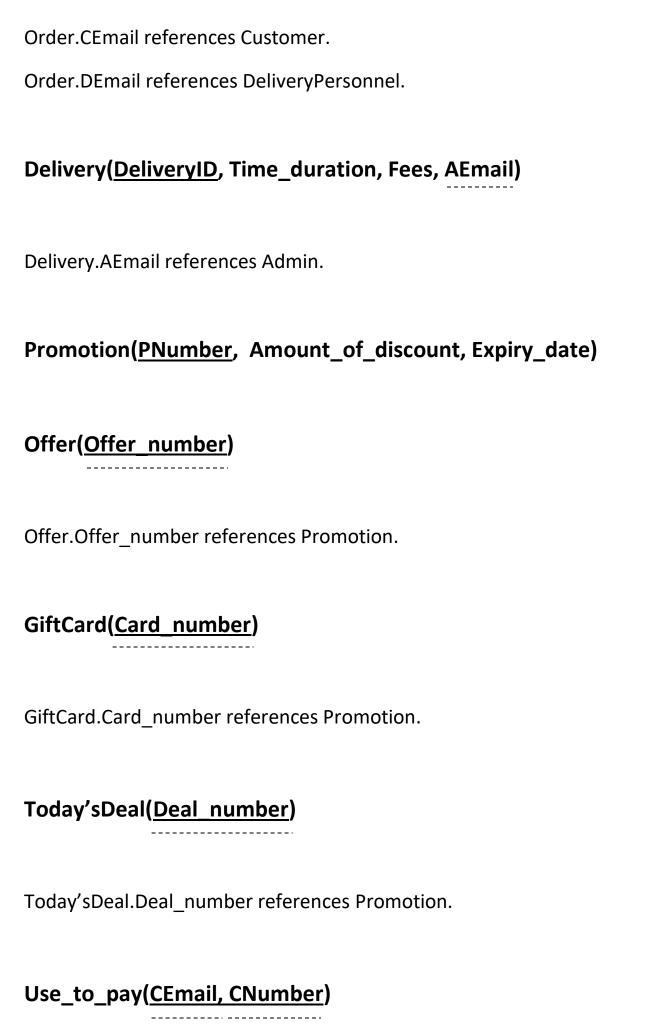
Vendor.AEmail references Admin.

Admin(AEmail)

Admin.AEmail references User.

DeliveryPersonnel(DEmail, AEmail)

DeliveryPersonnel.DEmail references User.

DeliveryPersonnel.AEmail references Admin.

Address(Address, Email)

Address.Email references User.

MobileNumber(Mobile_number, Email)

MobileNumber.Email references User.

Product(Serial_number, Color, Image, Price, Category, Description, Availability, Rate, Name, Amount, VEmail)

Product.VEmail references Vendor.

Question(QuestionID)

CreditCard(CNumber, CVC_code, Expiry_date)

Wishlist(CEmail, Name)

Wishlist.CEmail references Customer.

Order(ONumber, Status, Payment_method, Points_spent, CEmail, DEmail, Delivery_window_time)

Order.CEmail references Customer.

Order.DEmail references DeliveryPersonnel.

Delivery(<u>DeliveryID</u>, Time_duration, Fees, AEmail)

Delivery.AEmail references Admin.

Promotion(<u>PNumber</u>, Amount_of_discount, Expiry_date)

Offer(<u>Offer_number</u>)

Offer.Offer_number references Promotion.

GiftCard(<u>Card_number</u>)

GiftCard.Card_number references Promotion.

Today'sDeal(<u>Deal_number</u>)

Today'sDeal.Deal_number references Promotion.

Use_to_pay(<u>CEmail, CNumber</u>)

Use_to_pay.CEmail references Customer.

Use_to_pay.CNumber references CreditCard.

Ask(QuestionID, CEmail, Serial_number)

Ask.QuestionID references Question.

Ask.CEmail references Customer.

Ask.Serial_number references Product.

Answer(QuestionID, VEmail, Serial_number)

Answer.QuestionID references Question.

Answer.VEmail references Vendor.

Answer.Serial_number references Product.

Add_to_wishlist(Name, CEmail, Serial_number)

Add_to_wishlist.Name references Wishlist.Name.

Add_to_wishlist.CEmail references Customer.

Add_to_wishlist.Serial_number references Product.

Remove_from_wishlist(Name, CEmail, Serial_number)

Remove_from_wishlist.Name references Wishlist.Name.

Remove_from_wishlist.CEmail references Customer.

Remove_from_wishlist.Serial_number references Product.

Rate(<u>Serial_number, CEmail</u>)

Rate.Serial_number references Product.

Rate.CEmail references Customer.

Add_to_cart(<u>Serial_number, CEmail</u>)

Add_to_cart.Serial_number references Product.

Add_to_cart.CEmail references Customer.

Remove_from_cart(<u>Serial_number, CEmail</u>)

Remove_from_cart.Serial_number references Product.

Remove_from_cart.CEmail references Customer.

Get_recommended(<u>Serial_number, CEmail</u>)

Gets_recommended.Serial_number references Product.

Gets_recommended.CEmail references Customer.

Return(CEmail, <u>Serial_number, ONumber</u>)

Return.CEmail references Customer.

Return.Serial_number references Product.

Return.ONumber references Order.

Make_order(<u>ONumber</u>, CEmail, DeliveryID)

Make_order.ONumber references Order.

Make_order.CEmail references Customer.

Make_order.DeliveryID references Delivery.

Review(<u>ONumber, AEmail</u>)

Review.ONumber references Order.

Review.AEmail references Admin.

Update_status(<u>ONumber, AEmail</u>)

Update_status.ONumber references Order.

Update_status.AEmail references Admin.

Add_offer(**<u>Serial_number</u>**, VEmail, **<u>Offer_number</u>**)

Add_offer.Serial_number references Product.

Add_offer.VEmail references Vendor.

Add_offer.Offer_number references Offer.

Issue_giftcard(**<u>Card_number, CEmail, AEmail</u>**)

Issue_giftcard.Card_number references GiftCard.

Issue_giftcard.CEmail references Customer.

Issue_giftcard.AEmail references Admin.

Post_deal(**<u>Serial_number,Deal_number</u>**, AEmail)

Post_deal.Serial_number references Product.

Post_deal.Deal_number references Today'sDeal.

Post_deal.AEmail references Admin.