

User (username, password , e-mail ,l_name ,f_name)

UserMobilenum(mobilenum,user)

UserMobilenum.user references User

UserAddress(address,user)

UserAddress.user references User

Vendor(username,bank_acc_num,company_name ,

usernameAdmin)

Vendor.usernameAdmin references Admin

Vendor.username references User

DeliveryPerson (usernameDeliveryPerson,

, usernameAdmin , response)

DeliveryPerson.usernameDeliveryPerson references

User

DeliveryPerson.usernameAdmin references Admin

Admin (username)

Admin.username references User

Customer(username)

Customer.username references User

Product(Serial_Number , rate , price , description ,
availability , image , name , color , category ,
usernameVendorWhoEdit ,

usernameVendorWhoPost ,
usernameVendorWhoDelete ,

usernameCustomerAddToCart ,

usernameCustomerRemoveFromCart
,today_deal_num,

offer_number)

usernameVendorWhoEdit references Vendor
usernameVendorWhoPost references Vendor
usernameVendorWhoDelete references Vendor
usernameCustomerAddToCart references Customer
usernameCustomerRemoveFromCart references
Customer
today_deal_num references today_deal
offer_number references offer

Rate(Username , Serial_Number)

Rate.Username references Customer

Rate.Serial_Number references Product

Ask_Question(Username , Serial_Number , Question ,

answer)

Ask_Question.Username references Customer

Ask_Question.Serial_Number references Product

Credit_Card(Number, CVC_code , Expiry_date)

Uses(Username , Number)

Uses.Username references Customer

Uses.Number references Credit_Card

Wish_list(name , username)

Wish_list.username references Customer

Add(serial_number , wishlist_name,username)

Add.serial_number references Product

Add. wishlist_name references wish_list

Add.username references Customer

Remove(serial_number , wishlist_name,username)

Remove.serial_number references Product

Remove. wishlist_name references wish_list

Remove.username references Customer

Order(Number,estimated_window,Status,Payment
method,startdate, duration_time,fees,

time_Remaining,username_cancels,username_makes
Order

, usernameDeliveryPerson)

Where $\text{time_Remaining} = \text{startdate} + \text{duration_time} - \text{CURRENT_DATE}$

Order.duration_time and Order.fees reference
DeliveryType

Order.username_cancels references Customer

Order.username_makesOrder references Customer

Order.usernameDeliveryPerson references
DeliveryPerson

Update_status (Order_number,username)

Update_status.username references Admin

Update_status.Order_number references Order

Returns(order number, username ,serial_number)

Returns.Order_number references order

Returns.Username references customer

Returns.Serial_number references product

DeliveryType(duration time,fees)

Offer(number,expiry_Date,amount_of_discount,
username)

Offer.username references Vendor

Today's deal(number,expiry_Date
,amount_of_discount,username)

Today's_deal.username references Admin

Gift_card(number,expiry_Date ,gift_points)

Add_gift(usernameAdmin,giftCardNumber,usernameC)

ustomer)

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Add_gift.usernameAdmin references Admin

Add_gift.giftCardNumber references Gift_card

Add_gift.usernameCustomer references Customer