

user(username, first\_name , last\_name ,password ,E\_mail)

user\_address(username,address)

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Where user\_address.username references user

User\_phone (username, phone)

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Where user\_phone.username references user

Admin(username)

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where admin.username references user

Customer(username ,points , history , CreditCard\_number)

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where Customer.username references user

rateproduct(username,serial\_number)

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Where rateproduct.username references customer

Where rateproduct.serial\_number references product

ask/ans(customer\_username , serial\_number, Vendor\_username,the\_question,the\_answer)

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Where ask/ans.customer\_username references Customer

Where ask/ans.Vendor\_username references Vendor

Where ask/ans.serial\_number references product

adds\_to/remove\_fromcart(serial\_number,username)

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Where adds\_to/remove\_fromcart.serial\_number references product

Where adds\_to/remove\_fromcart.username references customer

DeliveryPersonnel(username ,invitation\_id,admin\_username)

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Where DeliveryPersonnel.username references user

Where DeliveryPersonnel.admin\_username references Admin

Vendor(username,bankaccountnumber,companyname,isactivated)

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Where Vendor.username references user

activate\_account(username\_vendor, username\_admin)

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Username\_admin references admin

Username\_vendor references vendor

delivery(derliveryid, deliverytype , estimated\_time , fees , timeduration, deliverystatus, username,username\_admin)

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Where delivery.estimated\_time = today's date + time\_duration

Where delivery.deliveystatus = estimated\_time - today's date

Where delivery.username references customer

Where username\_admin references admin

CreditCard (Number,Cvc,Expiry\_\_Date)

WishList(username,name)

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Where WishList.username references customer

WishList\_\_items(username,name,item)

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Where WishList\_\_items.username references customer

Where WishList\_\_items.name references WishList

Order(order\_\_number,paymenttype,order\_\_status,username\_\_customer,username\_\_delivery)

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Where order.username\_\_customer references customer

Where order.username\_\_deliveryPersonnel references DeliveryPersonnel

assignedto(order\_\_number ,username ,time\_\_limit)

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Where assignedto.username references DeliveryPersonnel

Where assignedto.order\_\_number references Order

Update\_\_status(order\_\_number ,username)

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Where updatestatus.username references deliverypersonnel

Where updatestatus.order\_\_number references Order

Update\_\_status\_\_by\_\_admin(order\_\_number ,username)

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Where updatestatus.username references Admin

Where updatestatus.order\_\_number references Order

add/remove(username,serial\_\_number,name)

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Where add/remove.username references customer

Where add/remove.serial\_\_number references product

Where add/remove.name references wishlist

Product(serial\_\_number,name,image,category,color,price,description,availability,username , promotion\_\_number )

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Where product.username references vendor

Where product.promotion\_\_number references today's\_deals

Promotion(promotion\_\_number,expiry\_\_date,amount of discount)

Offer(promotion\_\_number, username)

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Apply\_\_offer(serial\_\_number ,promotion\_\_number, username)

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Where offer.vendor references vendor

Where Offer.promotion\_\_number references promotion

Gift\_\_Card(promotion\_\_number,gift\_card\_points , username )

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Where Gift\_\_Card.promotion\_\_number references promotion

Where Gift\_\_card.username references admin

Generated (username\_\_admin , username\_\_customer , promotion\_\_number )

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Where generated.username\_\_admin references admin

Where generated.username\_\_customer references customer

where generated. promotion\_\_number references Gift\_Card

Today's\_\_deals(promotion\_\_number, username\_\_admin)

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Where Today's\_\_deals.promotion\_\_number references promotion

Where today's\_\_deals.username\_\_admin references admin