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 ,

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usernameAdmin)

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Vendor.usernameAdmin references Admin

Vendor.username references User

DeliveryPerson (usernameDeliveryPerson,

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, usernameAdmin , response)

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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 ,

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usernameVendorWhoPost , usernameVendorWhoDelete ,

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usernameCustomerAddToCart ,

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usernameCustomerRemoveFromCart ,today\_deal\_num,

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offer\_number)

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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)

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Uses.Username references Customer

Uses.Number references Credit\_Card

Wish\_list(name ,username)

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Wish\_list.username references Customer

Add(serial\_number , wishlist\_name,username)

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Add.serial\_number references Product

Add. wishlist\_name references wish\_list

Add.username references Customer

Remove(serial\_number , wishlist\_name,username)

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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\_makesOrder

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, usernameDeliveryPerson)

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Where time\_Remaining = startdate + duration\_time – CURRENT\_DATE

Order.duration\_time and Order.fees reference DeliveryType

Order.username\_cancels references Customer

Order.username\_makesOrder references Customer

Order. usernameDeliveryPerson refernces DeliveryPerson

Update\_status (Order\_number,username)

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Update\_status.username references Admin

Update\_status.Order\_number references Order

Returns(order number, username , serial\_number)

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Returns.Order\_number references order

Returns.Username refernces customer

Returns.Serial\_number refernces product

DeliveryType(duration time,fees)

Offer(number,expiry\_Date,amount\_of\_discount , username)

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Offer.username references Vendor

Today’s deal(number,expiry\_Date ,amount\_of\_discount, username)

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Today’s\_deal.username references Admin

Gift\_card(number,expiry\_Date ,gift\_points)

Add\_gift(usernameAdmin,giftCardNumber,usernameCustomer)

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Add\_gift.usernameAdmin references Admin

Add\_gift.giftCardNumber references Gift\_card

Add\_gift.usernameCustomer references Customer