

## Relational Schema

- Customer( username , f.name , l.name , password , email ,  
payment method , points , giftCardActive )

- CustomerPhones( username , mobileNumber )

-----

CustomerPhones.username references Customer

- CustomerAddresses( username , address )

-----

CustomerAddresses.username references Customer

- Vendor( username , f.name , l.name , password , email ,  
companyName , companyAccountNumber , admin )

-----

Vendor.admin references Admin

- DeliveryPersonnel( username , f.name , l.name , password ,  
email , admin )

-----

DeliveryPersonnel.admin references Admin

- Admin( username , f.name , l.name , password , email )

- Product( serialNumber , name , category , rate , availability ,  
description , image , color , price , offerActive , todayDealActive  
, vendor , customerCart , orderNumber )

-----

Product.vendor references Vendor

Product.customerCart references Customer

Product.orderNumber references Order

- Question( product , number , customer , content , answer )  
-----

Question.product references Product

Question.customer references Customer

- CreditCard( number , expiryDate , CVC )

- Customer-CreditCard( customer , number )  
-----

Customer-CreditCard.customer references Customer

Customer-CreditCard.number references CreditCard

- Wishlist( customer , name )  
-----

Wishlist.customer references Customer

- Wishlist-Product( product , customer , name )  
-----

Wishlist-Product.product references Product

Wishlist-Product.(customer , name) references Wishlist

- Order( number , status , timeLimit , duration , fees ,  
-----  
deliveryPersonnel , customer , estimatedDelivery)  
-----

Where Order.deliveryStatus = calculated remaining days

Order.(duration , fees) references DeliveryType

Order.deliveryPersonnel references DeliveryPersonnel

Order.customer references Customer

- DeliveryType( timeDuration , fees , description , admin)  
-----

DeliveryType.admin references Admin

- Offer( number , expiryDate , discountAmount )

- Offer-Product( offer , product )  
-----

Offer-Product.offer references Offer

Offer-Product.product references Product

- TodayDeal(number , expiryDate , discountAmount , admin)  
-----

TodayDeal.admin references Admin

- TodayDeal-Product( todayDeal , product )  
-----

TodayDeal-Product.todayDeal references TodayDeal

TodayDeal-Product.product references Product

- GiftCard(number , expiryDate , discountAmount , admin)

-----

GiftCard.admin references Admin

- GiftCard-Customer( giftCard , customer )

-----      -----

GiftCard-Customer.giftCard references GiftCard

GiftCard-Customer.customer references Customer