Relational schema

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User (username, password, Email, first name, last name, activatied)
User_phone (<u>username</u>, <u>phone</u>)
User_phone.username referneces User
User_address (username, address)
User_address.username references User
Admin (username)
Admin.username references User
DeliveryPersonnel (<u>username</u>, admin_username)
DeliveryPersonnel.username references User
DeliveryPersonnel.admin_username references Admin.username
Vendor (username, bank_acc_number, company_name, admin_username)
Vendor.username references User
Vendor.admin_username references Admin.username
Customer (username)
Customer.username references User
Product (<u>serial number</u>, name, price, rate, color, image, description, category,
order_number, customer_username, vendor_username)
Product.order_number references Order
Product.customer username references Customer.username
Product.vendor username references Vendor.username
Promotion (<u>number</u>, exp_date, amount_of_discount)
GiftCard (<u>number</u>)
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TodayDeal (number)
TodayDeal.number references Promotion
Offer (number)
Offer.number references Promotion
CreditCard (number, cvc, exp_date)
Wishlist (customer_username, name)
Wishlist.customer username references Customer.username
Order (number, order_date, payment_method, rem_days, del_id, customer_username,
creditcard_number, deliverypersonnel_username)
Where Order.rem_days = calculated Order rem_days
Order.customer_username references Customer.username
Order.del_id references Delivery
Order.creditcard_number references CreditCard
Order.deliverypersonnel_username references DeliveryPersonnel.username
Delivery ( <u>del_id</u> , duration, fees , type, admin_username)
Delivery.admin_username references Admin.username
Question (number, statement, answer, serial_number, customer_username)
Question.serial_number references Product
Question.customer_username references Customer.username
ownedBy (creditcard number, customer username)
ownedBy.creditcard_number references CreditCard
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GiftCard.number references Promotion

ownedBy.customer_username references Customer.username

add_in_cart (customer_username, product_sn)

add_in_cart.customer_username references Customer.username

add_in_cart.product_sn references Product

contains (wishlist name, customer username, product sn)
-----contains.(wishlist_name, customer_username) references Wishlist
contains.product_sn references Product

generate (<u>customer_username</u>, admin_username, giftcard_number)
generate.customer_username references Customer.usrname
generate.admin_username references Admin.username
generate.giftcard_number references GiftCard.number

post (<u>product_sn</u>, admin_username, todaydeal_number)
post.product_sn references Product
post.admin_username references Admin.username
post.todaydeal_number references TodayDeal.number

makes (<u>product_sn</u>, vendor_username, offer_number)
makes.product_sn references Product
makes.vendor_username references Vendor.username
makes.offer_number references Offer.number