

Relational Schema

user(username,password,e-mail,fname,lname)

user_mobiles(username,mobile(fk))

user_addresses(username,address(fk))

user_mobiles.username references user

user_addresses.username references user

customer(username(fk),points)

customer.username references user

vendor(username(fk),company_name,bank_number,admin_username(fk))

vendor.username references user

vendor.admin_username references admin

delivery_person(username(fk),admin_username(fk))

delivery_person.username references user

delivery_person.admin_username references admin

admin(username(fk),delivery_number(fk))

admin.username references user

admin.delivery_number references delivery

product(serial_number,description,price,name,rate,

availability,category,color,image,vendor_username(fk),customer_u

sername(fk),today's_deals_number(fk))
 product.vendor_username references vendor
 product.customer_username references username
 product.today's_deals_number references today's_deals
 payment(payment_ID,payment_type)
 credit_card(number,CVC,expiry_date)
 order(number,status,delivery_person_username(fk))
 order.delivery_person_username references delivery_person
 promotion(number,expiry_date,amount)
 offer(number(fk))
 offer.number references promotion
 today's_deals(number(fk),admin_username(fk))
 today's_deals.number references promotion
 today's_deals.admin_username references admin
 gift_cards(number(fk),admin_username(fk))
 gift_cards.number references promotion
 gift_cards.admin_username references admin
 wishlist(username(fk),name)
 wishlist.username references user
 question(serial_number(fk),question_number,customer_username(fk),vendor_username(fk))
 question.serial_number references product
 question.customer_username references customer

question.vendor_username references vendor
 delivery(delivery_number,fees,type,time_duration)
 vendorPostProducts(username(fk),serialnumber(fk))
 vendorPostProducts.username references vendor
 vendorPostProducts.serialnumber references product
 customer_rates_product(username(fk),serial_number(fk))
 customer_rates_product.username references customer
 customer_rates_product.serial_number references product
 customer_specifies_order_delivery_type(username(fk),delivery_number(fk),order_number(fk))
 customer_specifies_order_delivery_type.username references customer
 customer
 customer_specifies_order_delivery_type.delivery_number references delivery
 customer_specifies_order_delivery_type.order_number references order
 customer_add_product_to_wishlist(username(fk),serial_number(fk),name(fk))
 customer_add_product_to_wishlist.username references customer
 customer_add_product_to_wishlist.serial_number references product
 customer_add_product_to_wishlist.name references wishlist
 order_created_for_product(serial_number(fk),order_number(fk))

order_created_for_product.serial_number references product
 order_created_for_product.order_number references order
 user_chooses_order_payment_method(username(fk),payment_ID(fk),order_number(fk))
 user_chooses_order_payment_method.username references user
 user_chooses_order_payment_method.payment_ID references payment
 user_chooses_order_payment_method.order_number references order
 vendor_adds_offer_to_product(username(fk),serial_number(fk),offer_number(fk))
 vendor_adds_offer_to_product.username references vendor
 vendor_adds_offer_to_product.serial_number references product
 vendor_adds_offer_to_product.offer_number references offer
 customer_has_admin's_gift_cards(customer_username(fk),admin_user_name(fk),gift_cards_number(fk))
 customer_has_admin's_gift_cards.customer_username references customer
 customer_has_admin's_gift_cards.admin_username references admin
 customer_has_admin's_gift_cards.gift_cards_number references gift_cards

