Relational Schema

•	User(<u>username</u> , password, first_name, last_name, email)
•	User_Addresses(<u>username</u> , <u>address</u>)
	User_Addresses. username references User.username
•	User_Mobile(username, mobile_number)
	User_Mobile. username references User.username
•	Customer(<u>username</u> , points)
•	Customer.username <i>references</i> User.username Vendor(<u>username</u> , company_name, bank_number, admin_username)
	Vendor.username <i>references</i> User.username Vendor.admin_username <i>references</i> Admin.username
•	Delivery_Personnel(username, admin_username)
	Delivery_Personnel.username references User.username Delivery_Personnel.admin_username references Admin.username
•	Admin(<u>username</u>)
	Admin.username references User.username
•	Product(<u>serial_number</u> , name, category, description, availability, price, rate, image color, offer_number, vendor_username)
	Product.offer_number references Offer.number Product.vendor_username references Vendor.username
•	Rating_a_Product(<u>customer_username</u> , <u>product_id</u> , rate)
	Rating_a_Product.customer_username references Customer.username Rating_a_Product.product_id references Product.serial_number
•	Question_Exchange(<u>customer_username</u> , <u>product_id</u> , question, response)
	Question_Exchange.customer_username references Customer.username Question_Exchange.product_id references Product.serial_number

• Buy(customer username, product id) Buy.customer username references Customer.username Buy.product id references Product.serial number • Credit card(number, expiry date, cvc code) • Credit Card Owner(customer username, credit card number) Credit Card Owner.customer username references Customer.username Credit_Card_Owner. credit_card_number references Credit_card.number Add To Cart(customer username, product id) Add To Cart.customer username references Customer.username Add_To_Cart.product_id references Product.serial_number Wish_list(username, name, number_of_products) Wish_list.username references Customer.username where number_of_products is calculated Adds_Item_To_Wishlist(wishlist_name, product_id) Adds_Item_To_Wishlist. wishlist_name references Wishlist.name Adds Item To Wishlist.product id references Product.serial number Order(number, payment method, credit card used, total, amount_of_points_used_in_purchase, status, customer_username) Order.customer username references Customer.username Delivery(order_number, type, fees, delivery_status, time duration, time_limit, window, delivery_personnel_username) Delivery.order_number *references* Order.number Delivery delivery personnel username references Delivery Personnel.username • Promotion(number, amount of discount, expiry date) • Offer(number) Offer.number references Promotion.number

Today's_Deals(<u>number</u>)

 Today's_Deals.number references Promotion.number

 Gift_Card(<u>number</u>)

 Gift_Card.number references Promotion.number

 Adding_Today's_Deals(<u>product_id</u>, admin_username,today's_deals_number)

 Adding_Today's_Deals.admin_username references Admin.username Adding_Today's_Deals.product_id references Product.serial_number Adding_Today's_Deals.today's_deals_number references Today's_Deals.number

 Adding_Gift_Card(<u>customer_username</u>, admin_username,gift_card_number)

 Adding_Gift_Card.admin_username references Admin.username Adding_Gift_Card.customer_username references Customer.username

Adding Gift Card.gift card number references Gift Card.number