

Team 23 | Relational schema

Green = Entity;

Red = multivalued attribute;

Blue = Relation;

user(username, password, e-mail, is_activated, first_name, last_name);
addresses(username , address);

addresses.username references user.username;

mobile_num(username, mobile_num);

mobile_num.username references user.username;

admin(username);

admin.username references user.username;

delivery_personnel(username, admin_username, accept_inv);

delivery_personnel.username references user.username;

delivery_personnel.admin_username references admin.username;

customer(username, points, gc_num);

customer.gc_num references gift_card.unique_number;

customer.username references user.username;

vendor(username, bank_acc_num, company_name ,admin_username);

vendor.username references user.username;

vendor.admin_username references admin.username;

product(serial_number, vendor_username,name, category, description, price, availability,
rate, image, color, today's_deal_num, offer_num, buyer_username, order_id);

product.today's_deal_num references today's_deal.unique_number;

product.offer_num references offer.unique_number;

product.vendor_username references vendor.username;

product.buyer_username references customer.username;

product.order_id references order.order_id;

question(customer_username, serial_number, time, question, answer);

question.customer_username references customer.username;

question.serial_num references product.serial_number;

wishlist(username, name);

wishlist.username references customer.username;

wishlist_contains(username, wishlist_name, product_sn);

wishlist_contains.username references customer.username;

wishlist_contains.wishlist_name references wishlist.name;

wishlist_contains.product_sn references product.serial_number;

order(order_id, customer_username, delivery_personnel_username, delivery_id, time_window, time_limit, order_status, cash, points, credit_card, order_date);

order.customer_username references customer.username;

order.delivery_personnel_username references delivery_personnel.username;

order.delivery_id references delivery.id;

credit_card(number, cvc, expiry_date);

customer_credit_card(username, cc_number);

customer_credit_card.username references customer.username;

customer_credit_card.cc_nuber references credit_card.number;

promotion(unique_number, expiry_date, amount);

todays_deal(unique_number, admin_username);

todays_deal.unique_number references promotion.unique_number;

todays_deal.admin_username references admin.username;

offer(unique_number);

offer.unique_number references promotion.unique_number;

gift_card(unique_number, admin_username);

gift_card.unique_number references promotion.unique_number;

gift_card.admin_username references admin.username;

delivery(id, delivery_status, duration, fees);

Where: delivery status = ((order.order_date + order.time_limit) - current_timestamp);