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Design Document

Warehouses (warehouse id, city, the_state, country)

We are assuming there can be multiple warehouses in one city, so (city, the_state, country) cannot be a CK.

Users (<u>user_id</u>, first_name, last_name, email, uPassword, billing_address, date_registered) CK: (email)

We are assuming there can only be 1 email associated with each user, so it is a CK.

Sellers (<u>seller_id</u>, number_of_items_sent, number_of_items_sold) FK: seller id references Users(user_id)

ProductCategories (category name)

Products (<u>product_id</u>, product_name, product_category, product_description)

CK: (product_name, product_category, product_description)

FK: product_category references ProductCategories(category_name)

ItemListings (<u>item_id</u>, product_id, uploader_id, item_image, upload_date, item_price, shipping price, item condition)

FK: uploader_id references Users(user_id)

FK: product_id references Products(product_id)

ItemInfo (<u>item_id</u>, product_id, warehouse_id)

FK: product_id references Products(product_id)

FK: warehouse id references Warehouses(warehouse id)

Orders (<u>order id</u>, <u>item id</u>, buyer_id, seller_id, order_date, order_cost)

FK: item id references ItemInfo(item id)

FK: buyer id references Users(user id)

FK: seller_id references Users(user_id)

We are assuming that one order can have multiple items, hence order_id and item_id together will uniquely identify a row.

OrderStatus (order id, tracking id, paid status, shipping status, shipping provider)

FK: order id references Orders(order id)

ItemSeller (<u>item_id</u>, seller_id)

FK: item id references ItemInfo(item id)

FK: seller_id references Users(user_id)