



USERS (user-id, rating, location, country) PK (user-id)

categories (item-id references items, category) PK (item-id, category)

items (item-id, user-id references users, name, buy-price, first-bid, currently, num-of-bids, started, ends, description)

bids (item-id references items, user-id references users, time, amount) PK (item-id, user-id, time)

The only many-to-many relationship is "contains", but if we give it a table, the table would have the same attributes as "categories", so there is no need to create tables for relationships in this E/R with the particular attributes for each entity sets.