Kevin Lopez

CIS453

11/17/21

Quiz

Software must be developed for a mobile app for customers of a hardware store (such as Home Depot), whose goals are to enable checking availability of items in warehouses and stores, as well as placing, modifying, paying for, and canceling orders.  There are several (regional) warehouses, many stores, many items, many customers, and potentially multiple orders for each customers; customers may choose to pick up the ordered items from a store (with no shipping charges) or to have them delivered to their desired location.

One possibility is to store all  the relevant data (needed for the software) in a single relational database, retrieved and updated using SQL queries.  **Why is this not a good idea?  Propose a better alternative approach**, with as much detail as possible.

Instead of using one single relational database, you should use multiple ones in order to maintain better security, manage backups more efficiently, prevent crashes, and separate prefixes when writing the SQL. To have better security is to separate client information from product information and to process the usernames and passwords in separate databases to ensure the privacy of the users is protected. To manage backups more efficiently, you can create separate backup files from separate SQL files to better organize your information instead of a single jumbled file. To prevent crashes, you can have different processes on separate databases and in case one gets attacked, the other ones will be fine. Lastly, if you’re writing one big SQL database you will have to come up with a lot of prefixes and combine tables, making it harder to go through and debug.