MALL BANEGA SMALL
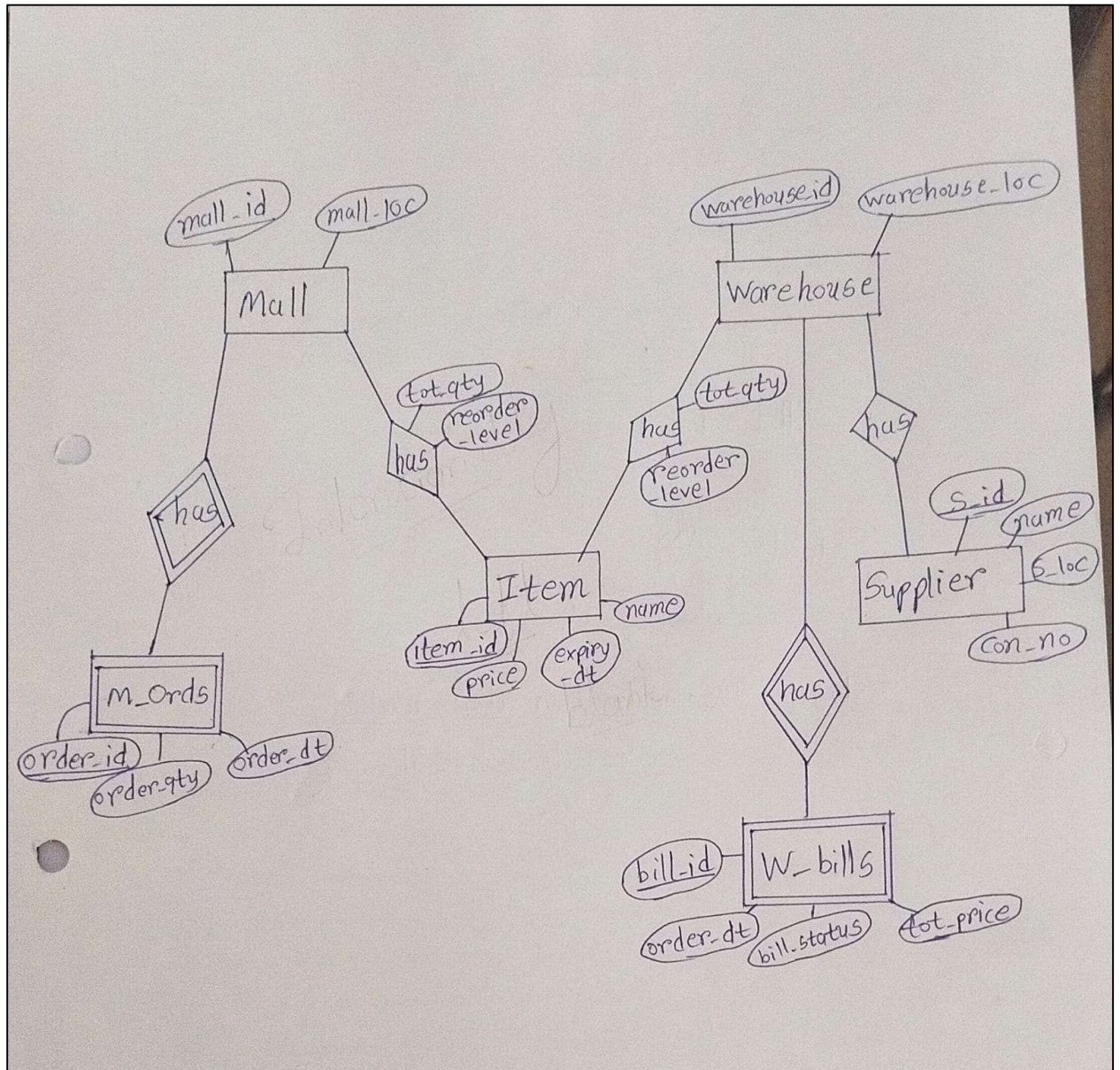
Description:

We are creating a database for a mall for its inventory like for D-mart mall. In that we are considering different items in it. There are different malls and all are taking items from different ware house. In mall if items are getting low from its reorder-level then it will order from warehouse and also in ware house if items are getting low from its reorder-level then it will order from suppliers. If Mall is ordering from warehouse and ware house is ordering from supplier the record about that will be stored. All Details about different supplier will store in new table. We also store details about different items like its id, name, price, expiry date in different table. We create following E-R diagram, tables, functions, procedures and triggers in our project.

Assumptions/conditions:

- There can be multiple suppliers for particular item for particular ware house.
- A mall can take a particular item from different ware house.

E-R diagram:

Tables:

> warehouse (<u>warehouse_id</u>, warehouse_loc)
> mall (<u>mall_id</u>, mall_loc)
> item (<u>item_id</u>, item_name, expiry_dt, measuring_unit, price)
> supplier (<u>s_id</u>, name, s_loc, contact_no)

- ➢ warehouse-item (<u>warehouse_id</u>, item_id, tot_qty, reorder_level)
- ➢ mall_item (<u>mall_id, item_id</u>, tot_qty, reorder_level)
- ➢ warehouse_supp_details (<u>warehouse_id, item_id, s_id</u>)
- ➢ warehouse-bills (<u>bill_id</u>, order_dt, bill_status, tot_price, warehouse_id, item_id, s_id)
- ➢ mall-supp-details (<u>mall_id, item_id, warehouse_id</u>)
- ➢ mall-orders (<u>order_id</u>, order_qty, order_dt, mall_id, item_id, warehouse_id)

Functions:

- ➢ For getting information about total quantity available in mall and also in ware house.
- ➢ For getting information about items which are expiring in next 2 months.

Procedures:

- ➢ for generate a purchase order for a mall to replenish stock in case the stock level falls below a certain reorder level.
- ➢ for update the stock quantity of an item in the warehouse based on different actions like receiving new stock, selling items, etc.

Triggers:

- ➢ to check the stock availability before inserting a new order for an item.

- ➢ to update the stock level in the warehouse after inserting a new order.
- ➢ to check the stock availability before updating an existing order.
- ➢ to update the stock level in the warehouse after updating an existing order.

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