Relational schema

Step 1: Strong entities (7 added)

Product (product\_id, price, poduct\_name)

Warehouse (warehouse\_id, capacity, number of employees, address\_id)

Supplier (supplier\_id, name, product, wholesale price, stock, department)

Employee (employee\_id, name, salary, job, work department, work status, password, address\_id)

Address (address\_id, street name, state, city, zip\_code)

Customer (customer\_id, name, credit\_card, balance, password, address\_id)

Orders (order\_id, customer\_id, status, tracking\_number, time\_of\_purchase)

Step 2: Weak entities (1 added)

Product (product\_id, price, poduct\_name)

Warehouse (warehouse\_id, capacity, number of employees, address\_id)

Supplier (supplier\_id, name, product, wholesale price, stock, department)

Employee (employee\_id, name, salary, job, work department, work status, password, address\_id)

Address (address\_id, street name, state, city, zip\_code)

Customer (customer\_id, name, credit\_card, balance, password, address\_id)

Orders (order\_id, customer\_id, status, tracking\_number, time\_of\_purchase)

Carts\_items (order\_id, incart\_id, product\_id, quantity)

Step 3: Relations (2 added)

Product (product\_id, price, poduct\_name)

Warehouse (warehouse\_id, capacity, number of employees, address\_id)

Supplier (supplier\_id, name, product, wholesale price, stock, department)

Employee (employee\_id, name, salary, job, work department, work status, password, address\_id)

Address (address\_id, street name, state, city, zip\_code)

Customer (customer\_id, name, credit\_card, balance, password, address\_id)

Orders (order\_id, customer\_id, status, tracking\_number, time\_of\_purchase)

Carts\_items (order\_id, incart\_id, product\_id, quantity)

Stores (warehouse\_id, Product\_id, stock)

Supplies (supplier\_id, product\_id, warehouse\_id)

Step 4: Multivariable attributes (No change)

Product (product\_id, price, poduct\_name)

Warehouse (warehouse\_id, capacity, number of employees, address\_id)

Supplier (supplier\_id, name, product, wholesale price, stock, department)

Employee (employee\_id, name, salary, job, work department, work status, password, address\_id)

Address (address\_id, street name, state, city, zip\_code)

Customer (customer\_id, name, credit\_card, balance, password, address\_id)

Orders (order\_id, customer\_id, status, tracking\_number, time\_of\_purchase)

Carts\_items (order\_id, incart\_id, product\_id, quantity)

Stores (warehouse\_id, Product\_id, stock)

Supplies (supplier\_id, product\_id, warehouse\_id)