FEDERAL UNIVERSITY LOKOJA

DEPARTMENT OF COMPUTER SCIENCE

CSC 307:DATABASE MANAGEMENT SYSTEM

GROUP 1

PROJECT TOPIC: INVENTORY MANAGEMENT SYESTEM

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INVENTORY MANAGEMENT SYESTEM ER DIAGRAM

This ER (Entity relationship) Diagram represent the model of inventory management system. The entity-relationship diagram of inventory management system shows all the visual instrument of database tables and the relations between Customer, Product, Ware House and Delivery Agent.

It used structure data and to define the relationship between structure data group of inventory management system functionalities. The main entities of the inventory management system: Customer, Product Ware House and Delivery Agent.

DESCRIPTION OF INVENTORY MANAGEMENT SYSTEM DATABASE:

- The detail of inventory is store into inventory table respective with all tables.
- Each entity (Customer, Product, Ware House and Delivery Agent) contain primary key and the unique keys.
- There is one-to-many relationships between Ware House, Delivery Agent and Customer.
- We have implemented indexing on each table of inventory management system tables for fast query execution.

INVENTORYMANAGEMENT SYESTEM ENTITIES AND THEIR ATTRIBUTES:

- **Customer Entity:** Attribute of Customer are customer id, customer_name, customer_address, Phone_no, Email.
- **Product Entity**: Attributes of Product are Product_id, Product_name, Product_description
- **Ware House Entity:**Attributes of Warehouse are Warehouse_id, Warehouse_name, Address.

- **Delivery Agent Entity:**Attribute of Delivery Agent are DeliveryAgent_id,DeliveryAgent_name,Delivery_Means Delivery_time, Delivery_Date.

RELATIONSHIP

1. One to many relationship:
    - Customer: Customer_id(Primarykey), Customer_name, Customer_Addres,Customer_phone, Customer_email, Delivery_agent(foreign key) Delivery_id(foreing key).
    - Product: Product_id(Primarykey)Product_date, Product_time,customer_customer_id(foreignkey),ware house_id(foreign key)
    - Delivery_agent:delivery_agent_id(primarykey), delivery_agent_name,delivery_date, delivery_time,ware_house_id(foreign).
    - Ware_house:ware_house_id(primary key), Ware_house_name, Ware_house_address

A DIAGRAM SHOWING THE ENTITY RELATIONAL DIAGRAM

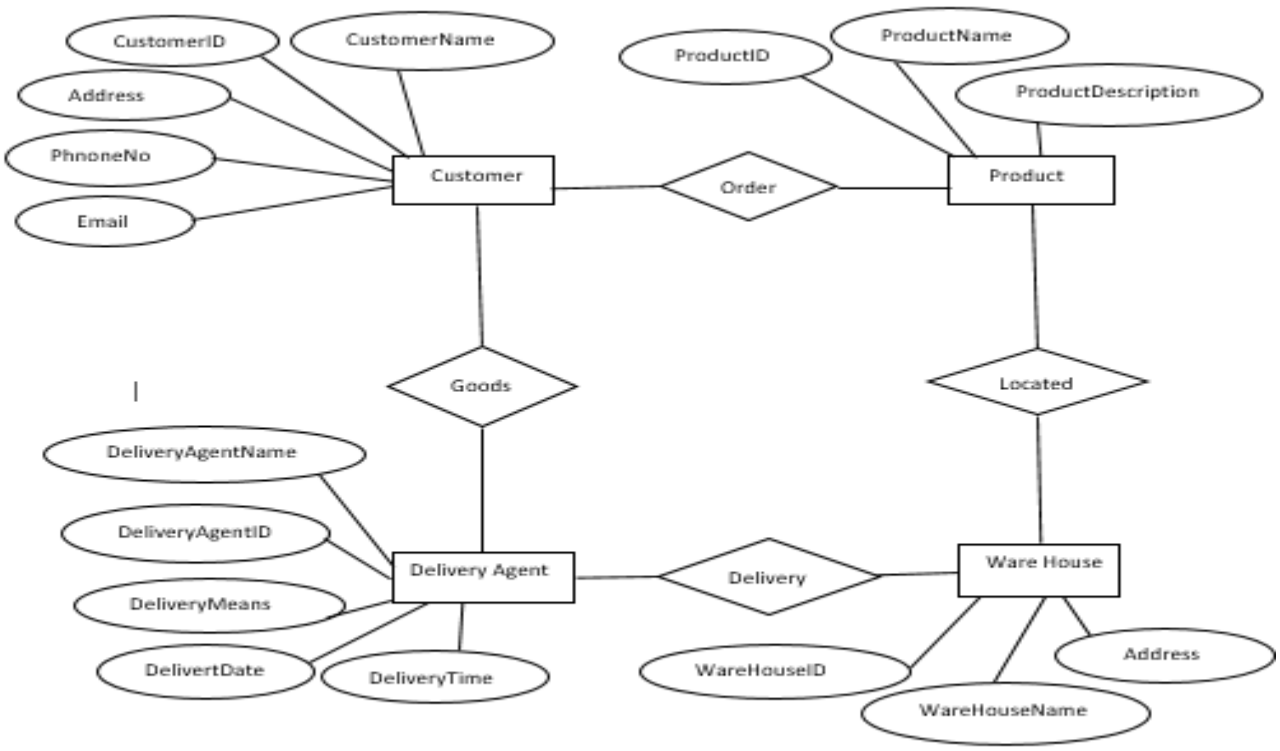

FIG 1: Showing the relationship between the entities.

RELATIONAL SCHEMA DIAGRAM

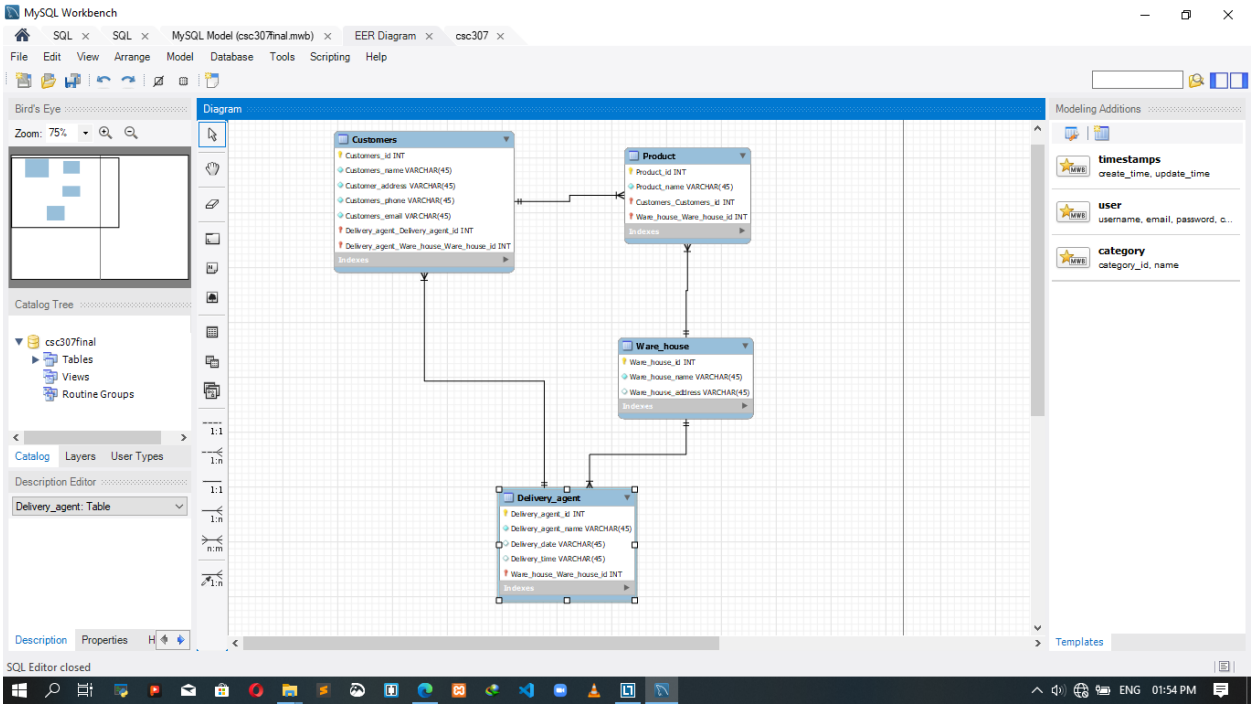

FIG2: A diagram showing the connection of the entities using workbench.