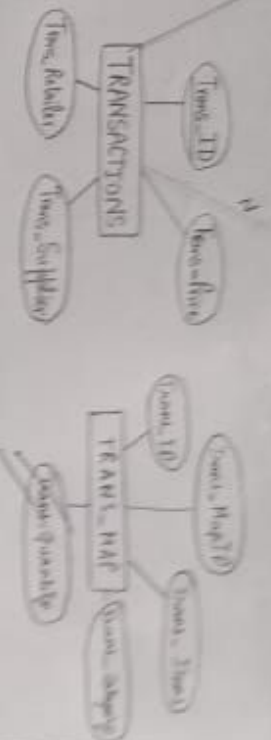
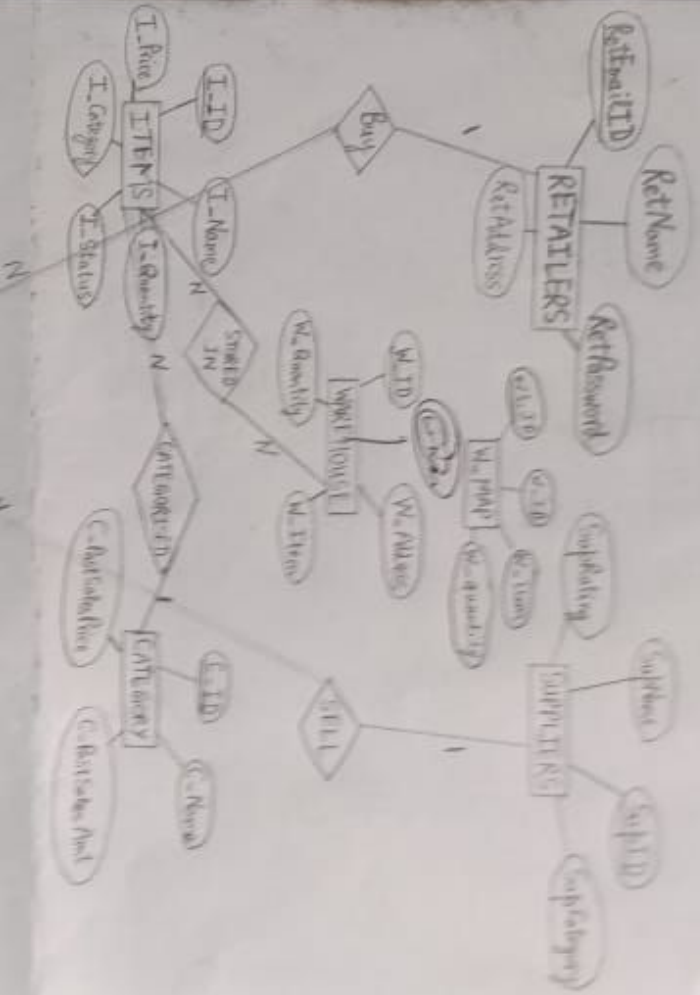


# Inventory Control Management System

This database management project is meant to cater for a retail warehouse.

- The SUPPLIERS and RETAILERS go through the warehouse database to place orders. The warehouse database effectively acts as a middleman for the transactions.
- SUPPLIERS have a SupName and are assigned a SupID. They are categorized in SupCategory based on what they sell. Based on the SUPPLIERS integrity and regular deliveries, they are rated with a SupRating.
- The RETAILERS register their RetName and are assigned a RetEmailID and a RetPassword. Their RetAddress is also stored for logistical purposes.
- The ITEMS received from the SUPPLIERS are organised according to their I\_ID, I\_Name and I\_Category. Based on the I\_Quantity, the I\_Price is decided. A record of the I\_Status is too maintained for the RETAILERS.
- These ITEMS are organised into many categories in CATEGORY. Each CATEGORY is assigned a C\_Name and C\_ID. An account of the C\_PastSalesAmt and C\_PastSalesPrice is maintained to compare sales and prices from 6 months ago.
- Records of TRANSACTIONS are kept for data security purposes and to prevent fraud. The Trans\_ID is stored and through the Trans\_ID one can identify the Trans\_Retailer, Trans\_Supplier and Trans\_Price, Trans\_Type, Trans\_Quantity, Trans\_Items, Trans\_Categories with each transaction.
- Items are stored across multiple WAREHOUSEs, each warehouse having its own W\_ID, W\_Address, W\_Item, W\_Quantity.

# ER Diagram



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# RELATIONAL SCHEMA

EDG3

WAREHOUSE		
W-ID	W-Addr	W-Capacity

RETAILERS			
RtName	RtEmail	RtPhone	RtAddr

SUPPLIERS			
SupName	SupID	SupCategory	SupRating

W-MAF			
W-ID	W-S-ID	W-Item-ID	W-Quantity

ITEMS				
I-ID	I-Price	I-Name	I-Quantity	I-Category

C-Inventory			
C-ID	C-Name	C-PartSubst	C-PartSubst Price

TRANSACTION			
Trans-ID	Trans-Id	Trans-SupID	Trans-Price

TRANS-MAF				
Trans-ID	Trans-ID	TransID	TransCategoryID	Trans-Quantity

