

Assignment 3

ERD to 3NF

Student Name	Ankita Upadhyay
Student zID	Z1836412
Course Number	CSCI 566
Assignment number	Assignment 3

1. Considering Strong entities which are not sub-types

STORES (Store ID, Address, Manager ID)

CITIES (City Name, State, HeadQtr Address)

CUSTOMER (Customer Name, Address, Phone Number)

ITEMS (Item ID, Description, Size, Color)

ORDERS (Order Number, Order Date)

2. No Sub-type entities to consider

3. No Weak entities to consider

4. Considering one to one & one to many binary relationships

Relationship <LOCATED IN> and <PLACE>

STORES (Store ID (PRIMARY KEY), Address, Manager ID, [((City Name, State) FOREIGN KEY), HeadQtr Address])

ORDERS (Order Number (PRIMARY KEY), Order Date, [((Customer Name) FOREIGN KEY), Address, Phone Number])

5. Considering many to many binary relationships

HOLD Qty Held ((Store ID, Item ID) PRIMARY KEY), Description, Size, Color, Address, Manager ID)

STORE ID foreign Key from STORES

ITEM ID foreign Key from ITEMS

IN-CITIES Qty_in_cities (((City Name, State, Item ID) PRIMARY KEY), Description, Size, Color, HeadQtr Address)

ITEMS_ORDERED Qty ordered (((Order Number, Item ID) PRIMARY KEY), Description, Size, Color, Order Date)

6. No Relationship greater than binary to consider

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7. **NO Relationships Greater than Binary Including a Date Entity to consider**
8. **No Recursive relationships to consider**