

Assignment 3

* Entities:

1) Strong Entities with no-subtypes =

Product (Product ID, color, weight, description, size)

Order (Order Num, date)

Customer (Customer Name, email, address)

Store (Store ID, address, managers)

City (City Name, state, headquartersAddr)

2) Relationships

a) one-to-many relations

Store (Store ID, address, manager, City Name^α, state^α)

Order (Order Num, date, Customer Name^α)

b) many-many relations

Hold (Product ID^α, Store ID^α, quantity)

is stored in (City Name^α, state^α, Product ID^{αα}, quantity)

was ordered in (Order Num^α, Product ID^α, quantity)

Dev Patel
81912837

3) Final Relations :-

Product

Product (Product ID, color, size, description, weight)

Store (Store ID, address, manager, CityName^{*}, State^{*})

City (State, City Name, headquartersAddr)

Hold (Product ID^{*}, Store ID^{*}, quantity)

is stored in (Product ID^{*}, City Name^{*}, State^{*}, quantity)

was ordered in (orderNum^{*}, Product ID^{*}, quantity)

Order (orderNum, date, CustomerName^{*})

Customer (CustomerName^{*}, email, address)