

EER Diagram Assumptions

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Customer Assumptions:

- Customer may place multiple orders but each order belongs to one customer
- Customers must provide valid contact details (specifically email) to place an order
- An order may contain multiple products from any category
- EMAILS are unique among all individuals (same as real world)

Order Assumption:

- Order ID will be unique
- Any employee no matter the role can process orders

Payment Assumption:

- We are assuming that if a payment is made, then it can only be made through one method. For example, if a customer is paying for an order, the payment can be made using either a card or cash, not both.
- Payment type can be cash, credit, or debit.
- Payment is always made in full. There is no partial payment.
- Payment must be associated with a order
- Date of payment recorded

Makes Payment Assumption

- We are assuming that customers pay for an order. That it is one relationship.
- 1 Payment for 1 order only.

Supplier/Supply Delivery Assumption:

- Any employee no matter role can update inventory from supply delivery
- Supplier delivers to multiple stores
- Supply deliveries will be kept to single product shipments. Eg. A supply delivery will only contain Intel Core i9-14900K at the specified relationship quantity
- Delivery status will either be pending or delivered
- Supplier name is not unique, as in there can be suppliers with the same name. The unique ID is what separates them.

Employee assumptions:

- Employee Ids are unique
- Assume that Employee IDs are kept relatively private (will be used for admin log in)
- Employees can't switch between store locations
- You can be an employee without working at a store
- A store does not need to have employee

Store assumptions:

- We can have multiple stores in the same location(i.e. Stores from 2 companies)
- There can be new stores that do not have any employees or managers.

Product Assumptions:

- Products must belong to a category

Inventory assumptions:

- Once a Supply Delivery status is changed to delivered, inventory must be updated
- Stock levels will indicated how much of a product is held and when it was last updated

Person assumptions:

- We will assume all persons interacting with the system will be either a customer or an employee which will mean that the person has to belong to one of the subclasses.



