Introduction

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- Chosen scenario: Scenario 1

Entities

- o Oder this entity tracks each order's information
- Product this entity collects the products' information (including inventory)
- Customer this entity tracks customers' detail
- Company this entity used to collect the company's information
- Part this entity is used to keep track of the parts' description

Business Rules

- A customer may place zero, one or more orders.
- An order must have one and only one customer.
- o The company can have zero, one or more orders.
- An order must have one and only one customer.
- An order can have one or more products.
- One product may be included in zero, one or many orders.
- o A product may have one or many parts inside.
- A part can used in zero, one or more products.
- o Discount amount is recorded on customer's record.
- Product data is updated accordingly along with the part inventory data.

Unknows

- Are there other statuses for an order other than new?
- o Can a customer record not include an email address?
- o Is there any depreciation on products and parts?
- o Is the company will open another one?

Assumptions

- An order can have multiple statuses; therefore, an order status table is required.
- An order can have different mailing and shipping addresses.
- The credit limit can change.
- o A customer can have different discount in different period.
- The product price can change due to the market.
- o Orders that can be filled or partially filled.