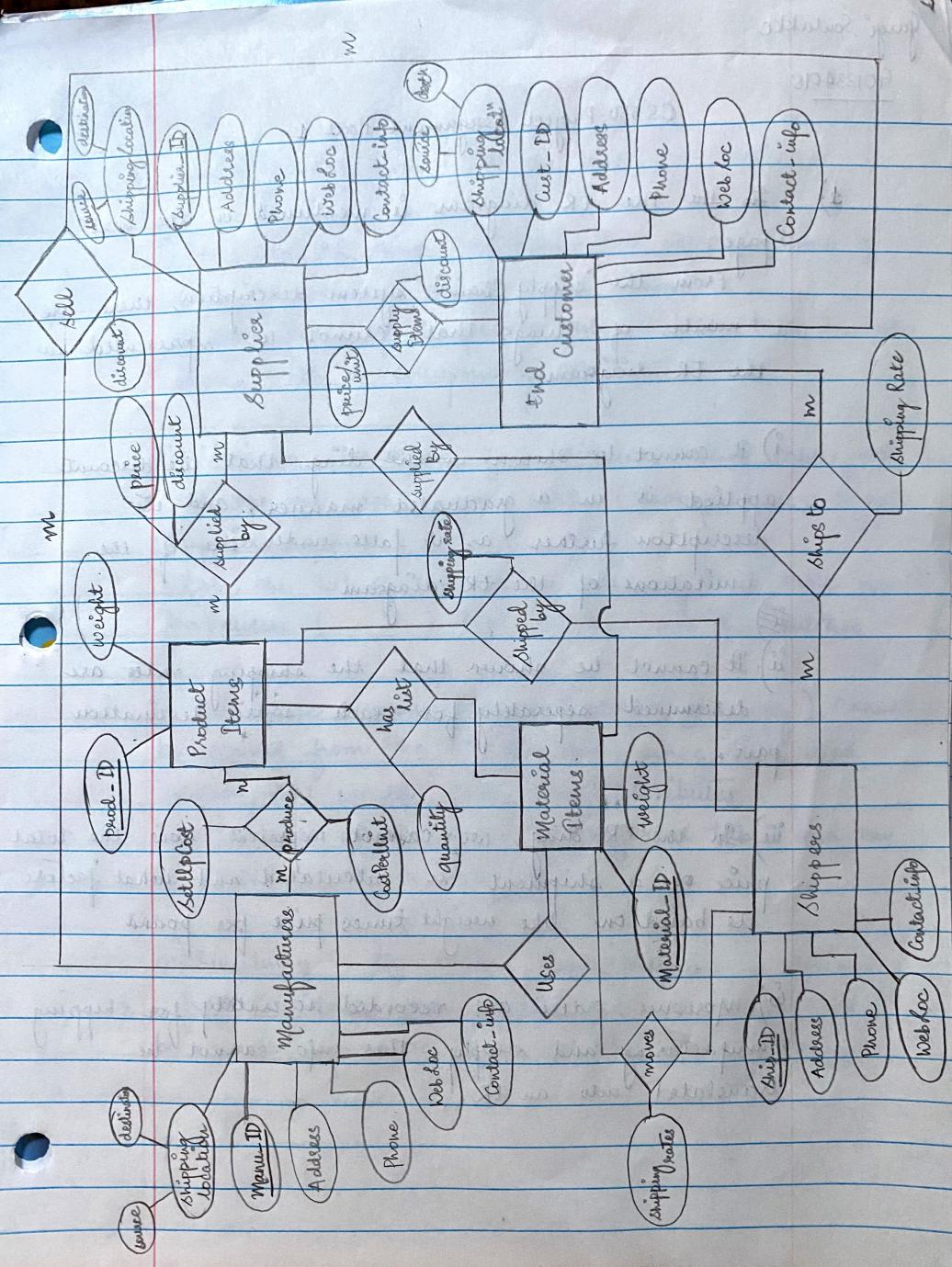


- i) ~~for the~~ The ER diagram is mentioned on the next page.

from the "supply Chain" system description, there are a number of things that cannot be represented in the ER diagram.

- i) It cannot be shown in the diag, that the discount applied is in a graduated manner, and its description further as it falls under one of the limitations of the ER diagram.
- ii) It cannot be shown that the shipping rates are determined separately for each source destination pair.
- iii) In the ER diag, we cannot represent how the total price of a shipment is calculated and what factors it is based on like weight times price per pound
- iv) Moreover, orders are recorded separately for shipping, manufacturing and supply. This info cannot be translated into an ER.



2) comparing tables from ER to the tables in part 2.

- i) From the ER diag, we obtain two separate tables of items for product and material items. However, part 2 of the project only has one table named 'items', with its corresponding attributes.
- ii) Similarly, we obtain four different entity tables from the ER, one for each business entity (manufacturer, supplier, customer). But, the list of tables given has only one table named busEntities () that contains all the entities.
- iii) The table customerDemand (customer, item, qty) cannot be derived from the ER diagram, since there is no relation that would fetch those attributes. This table is derived from two different tables and can be considered as a view.
- iv) Similarly, the table manufDiscounts is derived from the table manufUnitPricing () and cannot be made separately from the ER diagram otherwise.