**CZ2007**
Lab Group: DSS2   Team 1

APPENDIX C: INDIVIDUAL CONTRIBUTION FORM

Name	Individual Contribution to Submission 1 (Lab 1)	Percentage of Contribution	Signature
Clement	Brainstorm and drew ER diagram, and worked on the design consideration.	14.28%	
Kelly	Brainstorm and drew ER diagram, and worked on the design consideration.	14.28%	
Jingfang	Brainstorm and drew ER diagram, and worked on the design consideration.	14.28%	
Qingtian	Brainstorm and drew ER diagram, and worked on the design consideration.	14.28%	
Nihal	Brainstorm and drew ER diagram, and worked on the design consideration.	14.28%	
Samarth	Brainstorm and drew ER diagram, and worked on the design consideration.	14.28%	
Jacky	Brainstorm and drew ER diagram, and worked on the design consideration.	14.28%	
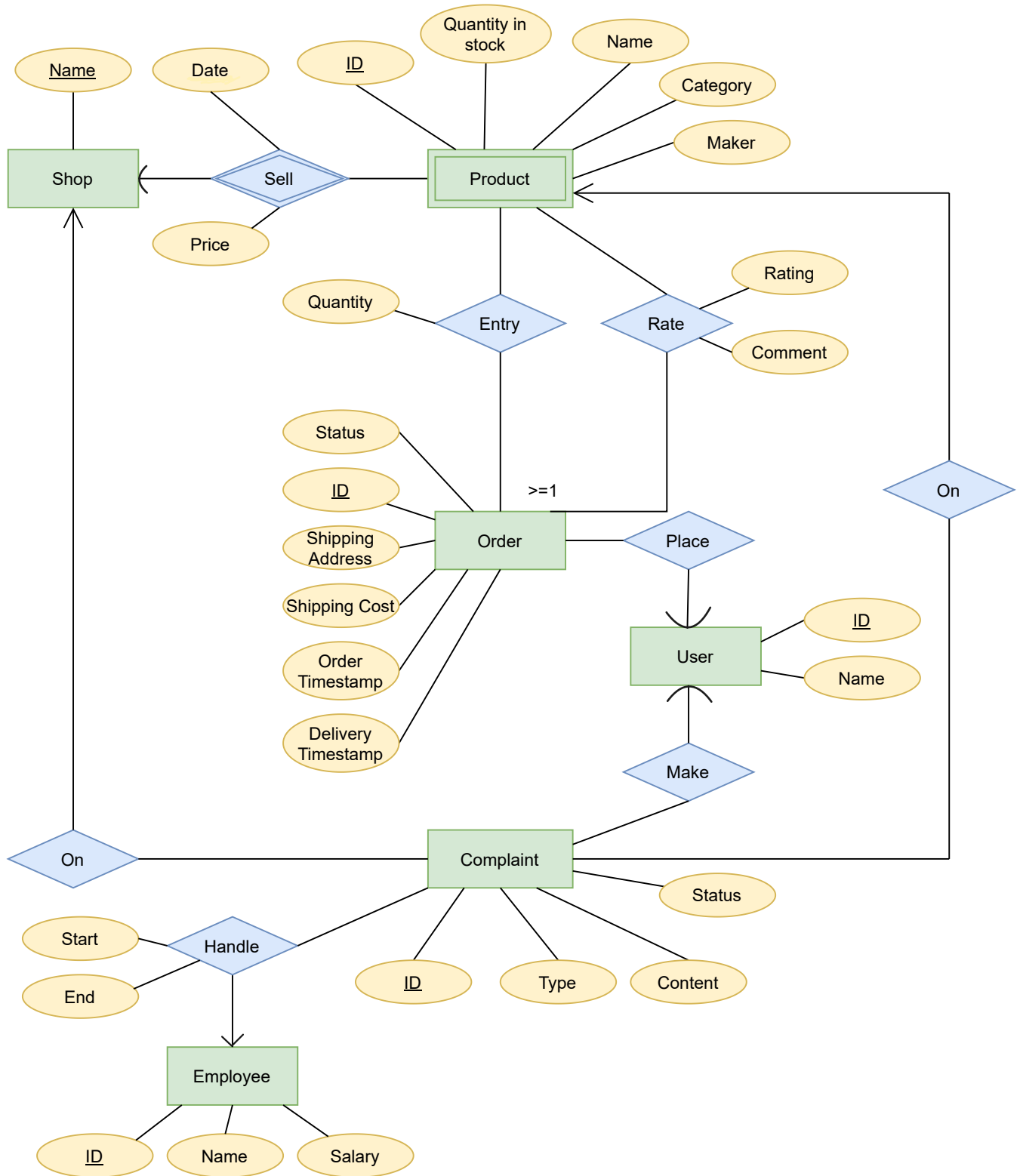
Design Considerations

- Product is a weak entity set with ID as a key, and can be uniquely identified by (shop.name, product.ID) as a key.
- The price of a product is an attribute of the "Sell" supporting relation since different shops could offer different price for the same product. The date for which the shop sells the product at a given price is also noted to track history of price changes. Here we assume that all shops must sell at least 1 product.
- Users can place orders, with at least 1 product, and could be more than 1 as well, as represented by a degree constraint. Here we also assume referential integrity between order and user as all orders must come from a user.
- We assume that users can place more than 1 uncompleted order at the same time.
- Products are entries in an order, with (shop.name, product.ID) as key together with the quantity.
- Ratings is a relation between an order and the products, since users can rate products only after purchasing it. Modification of ratings can be done through their orders, although it could not be accurately represented in an ER diagram.
- Complaint is an entity set related to the users, according to the description, we can assume that any user can complaint about any product and shop. There must be a user to make a complaint as well, hence the rounded arrow.
- There are 2 types of complaints, about "shop" or "product" respectively.
- Employee handles complaints received from users. Each complaint is handled by 1 employee, and we can assume that an employee can handle more than 1 complaint, else there will be a long queue for complaint handling.
- The handling of complaints has a start time and an end time, so that we will be able to track the latency of employees.