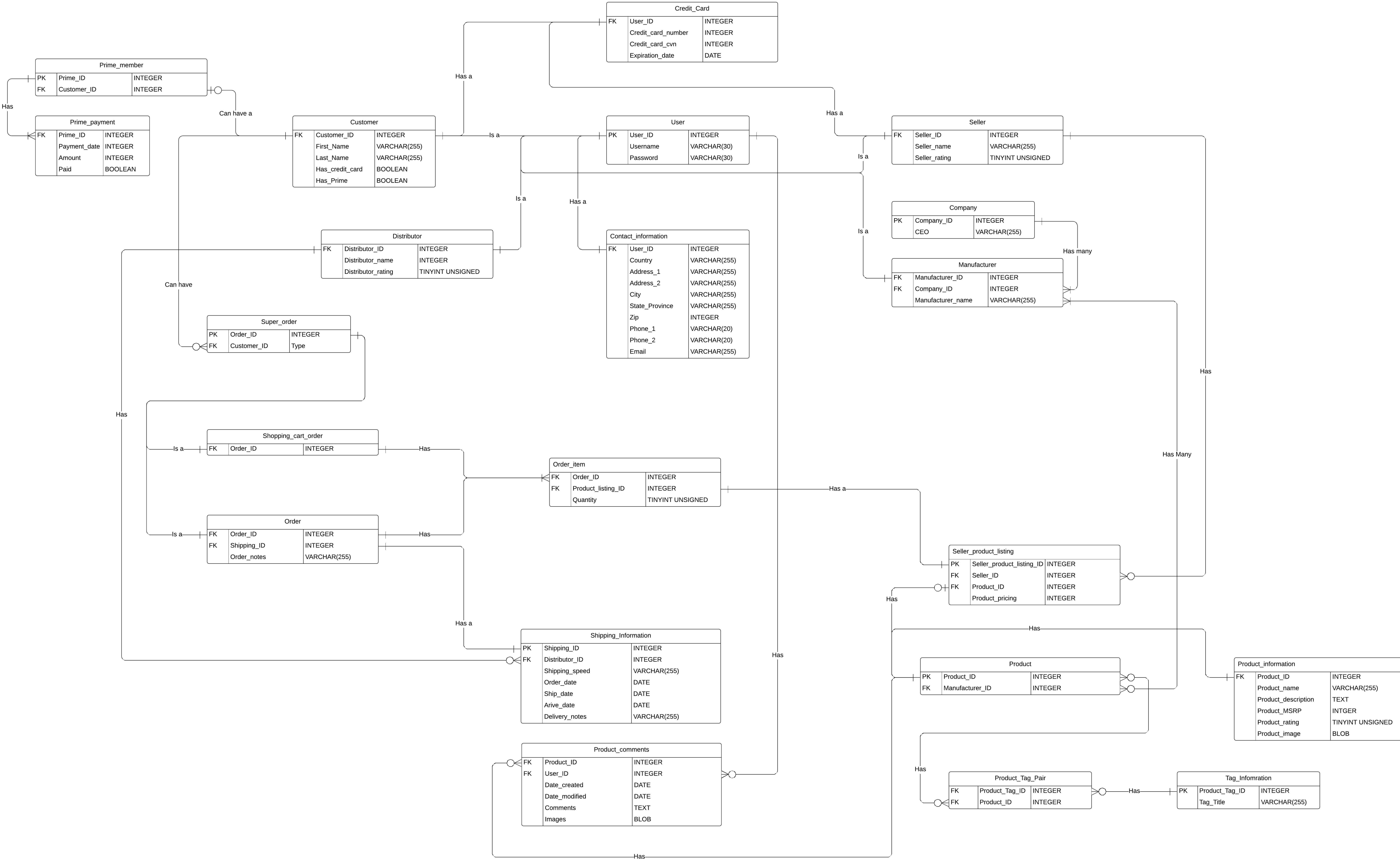


Entity-Relationship Model for Terrible Amazon Clone

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Enterprise Database Management with MySQL Personal Collection Database  
Application (PC-DBA)

Phase 1: Proposal and Entity-Relationship Model

I was going to work on the ***Novel Corona Virus 2019 Dataset*** given on Kaggle.com, but this dataset does not have a lot of relationship sets and would require formatting the csv files and using a lot of regex for outputting and analyzing the data. As an alternative, I will be making a *Terrible Amazon Clone* which should be an example of how not to use a database but should have a decent number of entity and relationship sets.

My *Terrible Amazon Clone* should be a rip off of Amazon in terms of item listing, orders, and shipping. It even has Amazon Prime. The Entity-Relationship diagram shows the various connections between the tables. Starting with the Users, there are the Customers, Sellers, Distributors, and the Manufacturers. They should all be apart of the Users table. The Customers and the Sellers both should have credit cards as they are the ones who do monetary transactions. The Credit\_card and User tables should obviously be unsafe as they do not have salted and hashed values which I may need to write an algorithm for if I were to change it to be safe. The Customers can have Prime and can make Orders via Shopping\_cart\_order or Order table. On the other hand, the Manufacturers can make the same product under the same company name and can make multiple products. If an Order is made, then it will contain Shipping information of both the Customer and Seller and a unique product made by a Manufacturer and sold by the Seller. The product itself is simplified by being split into multiple relationship set to minimize table size. Those relationship sets are Product\_information, which is self-explanatory, Product\_tag\_pair which is tagging for finding similar products, and Product\_comments which are made by the Users on the product page of the product.

The difficulty with the project would probably be:

1. Generating data for the database which I would write a python script for.
2. Making nice html pages to display and do things.