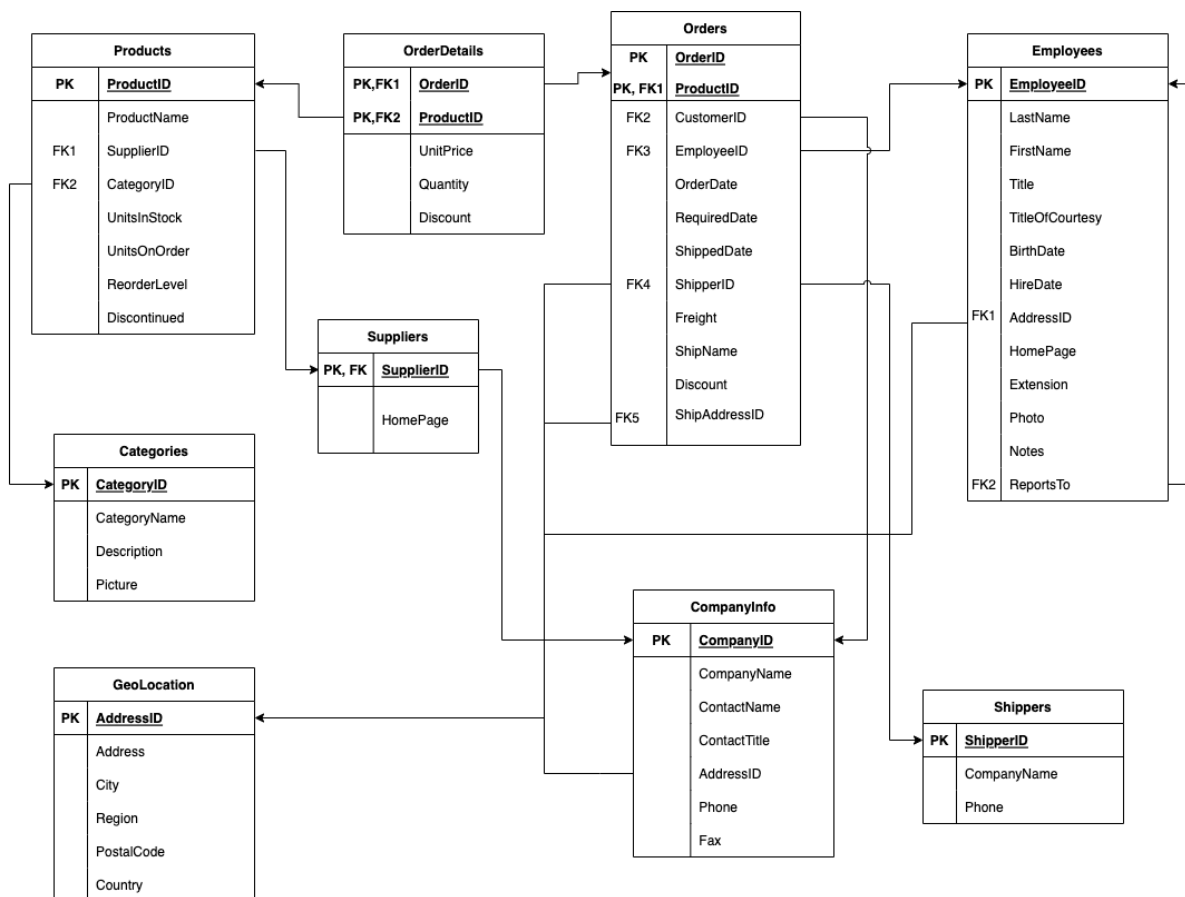


6. Analysing the Database



Justifications:

First of all, I have observed that the addresses that correspond to the tables Customers, Suppliers, Customers and Orders were the undetected entity hierarchy that we were looking for since they are given in a geographical hierarchy mode containing Address, City, Region, Postal Code and Country. For this reason, I have created a new entity called GeoLocation which given a unique AddressID, provides to all the tables the fields that describe such address.

Secondly, I have also noticed that the table called OrderDetails contained repeated attributes which also appeared in the Products table. So, I deleted the attributes 'UnitPrice' and 'Quantity' from the Products table.

Last but not least, the Customers and Suppliers tables had redundant attributes that could be optimised with some new entities which promoted data reuse. Taking this into account, we created a new table called CompanyInfo with all the information regarding both, the customer and supplier companies. Since we deleted many fields from the table Suppliers, this one was only left with one column: HomePage.