**Assumptions**

1. I will be keeping the initial prices of all the products in the product database. Then when the user searches for product or go to any sale page then we will use rule engine to calculate the applicable discount on the original price for the product. The Rule engine will create a new field which will be discounted price, and we will display that.
2. Assuming that the RDS database used for orders will become a bottleneck very easily in case of large orders, I will be using Mongo Database as well for storing orders data that are processed and are older than 6 months and will remove them from RDS.