**Database Schema Planning**

The objective of this database is to establish a simple system for managing customer purchase orders, hence the fundamental step would be to identify all the entities involved together with their relationships. In this database the basic entities are customers, employees, products, orders, orderline, product type, price as well as reports associated with the sales. The tables in the database would be:

* Customer
* Employee
* Product
* Orderline
* order
* Product type
* Price
* Report

The customer table would have a one to many relationship with the order table because a customer can place one or many orders, but a given order can be placed by only one customer. The customer table has a one to many relationship with the title table because a customer can only have one title but many customers can be referred to by the same title.

The orders table has a one to many relationship with the employee table because an order purchase can be officiated by only one employee but an employee can officiate more than one order. The order table will also associate with the orderline table in a one to many relationship because an order can have many products in it but a given product can only be listed in one order.

The product table has a one to many relationship with the product type table because a product can only belong to one product type but a product type can have many products to its name. The product table also has a relationship with the price table since a product can have only one price at a time, but that price can be of many different products.

The reports table relates directly to orders table in a one to many relationship because an order can only be in one report but a report can list many orders.

**Schema Plan for Palesa’s book shop :**

