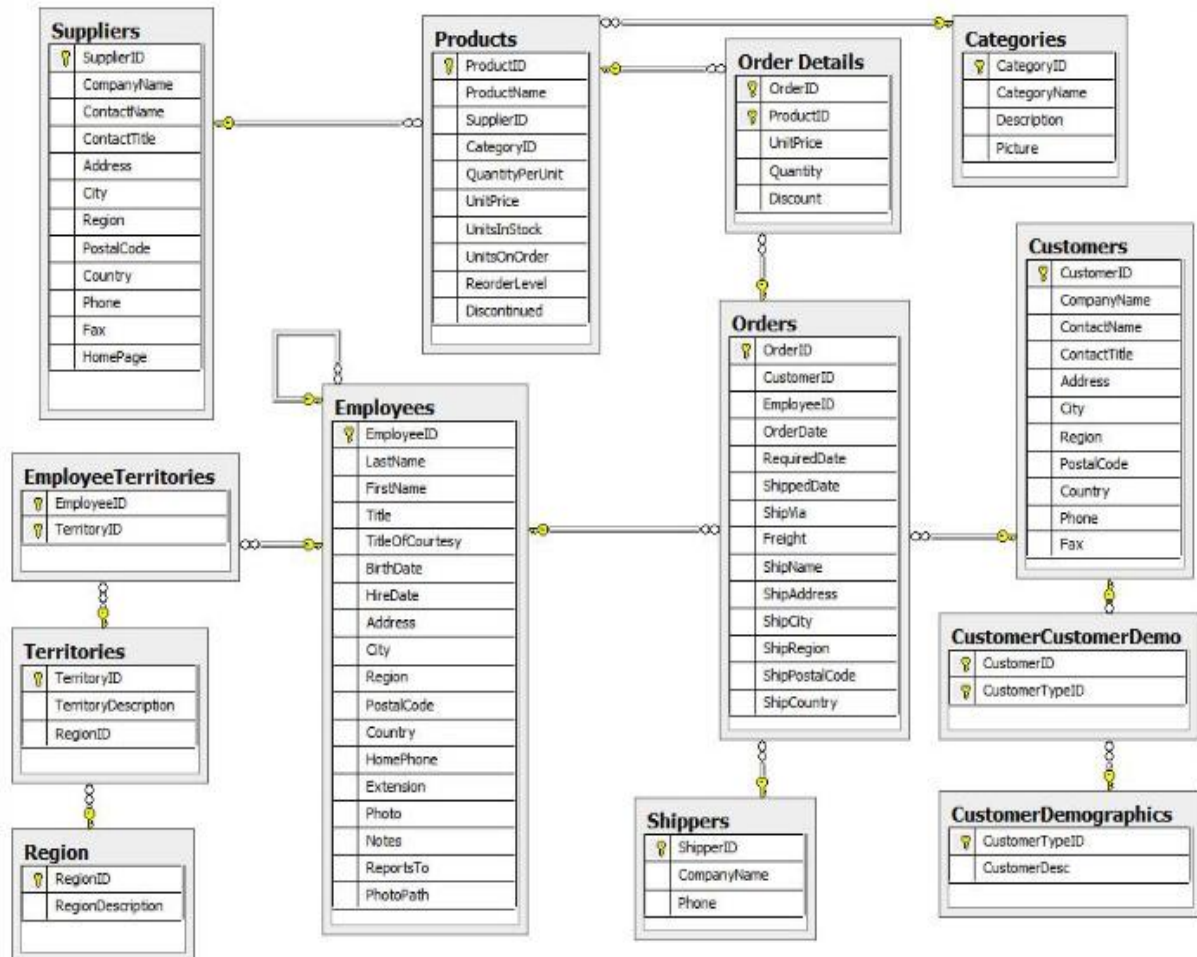
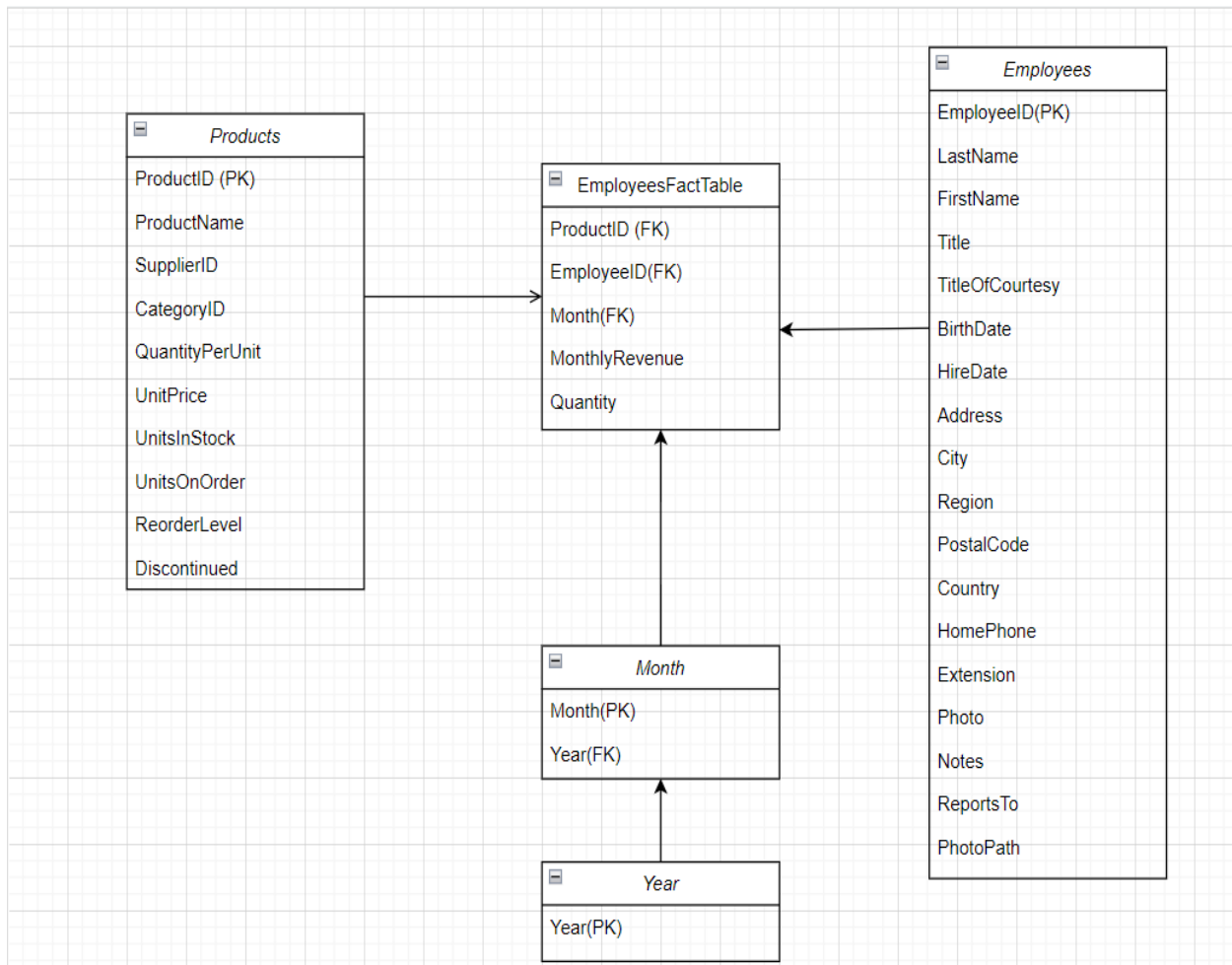


## Source ERD:



## The Business Process:

The business process which we model is the process of buying and selling in a hyper market.



## The Grain of fact table:

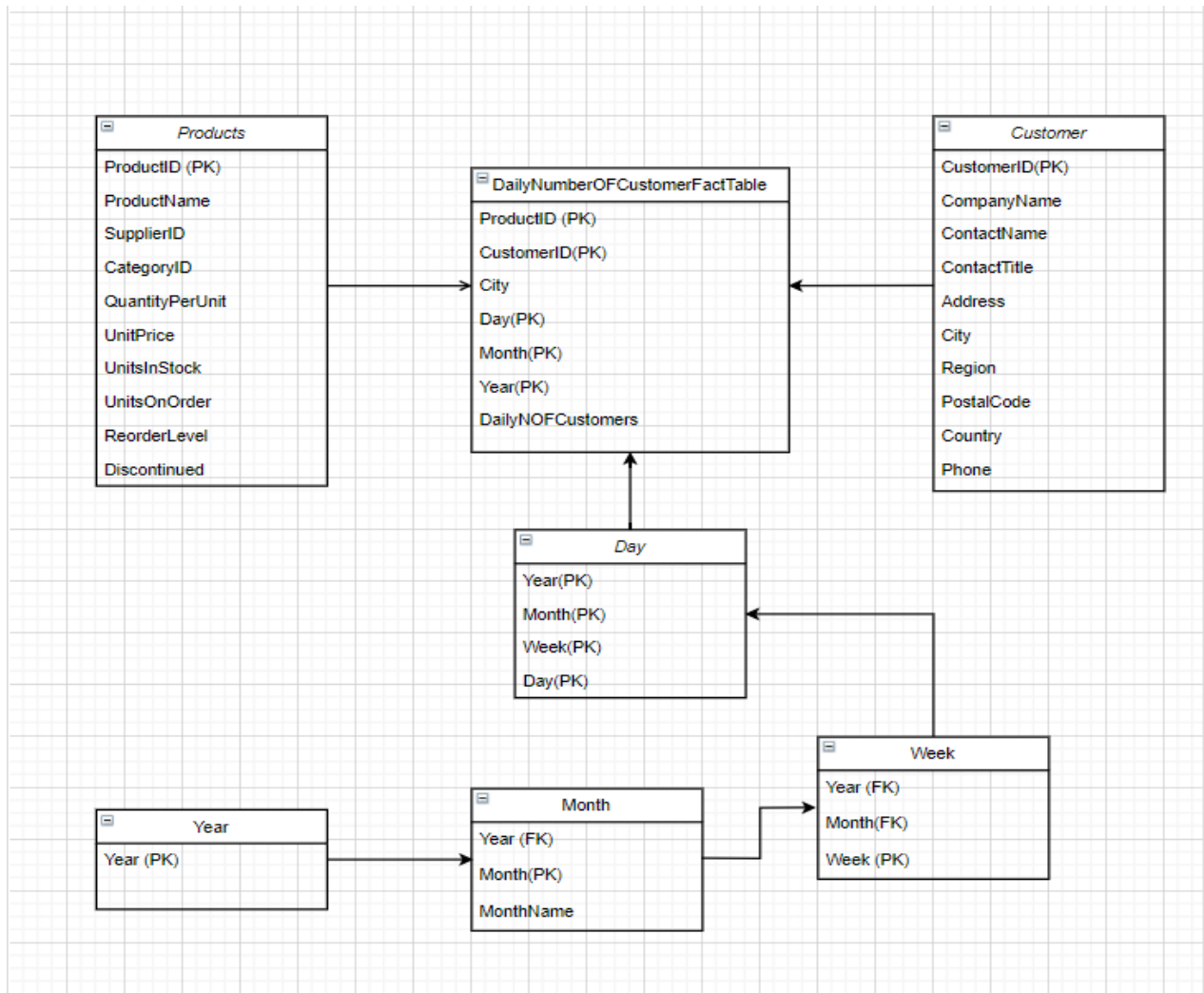
the record represents the monthly revenue made by each employee for each product in a specific month and the quantity sold from this product by this employee in this month.

## The dimensions definition:

- **Products:** the items our hyper market sell.
- **Employees:** the person who is responsible for completing the order and convince the customer of the products.
- **Month:** the time in months when this order is complete.

### **The measures definition:**

- **Monthly Revenue:** the revenue come from selling specific product through specific employee in specific month
- **Quantity:** the quantity sold from specific product through specific employee in specific month



## The Grain of fact table:

the record in fact table represents number of customers purchased each item in each city on daily basis.

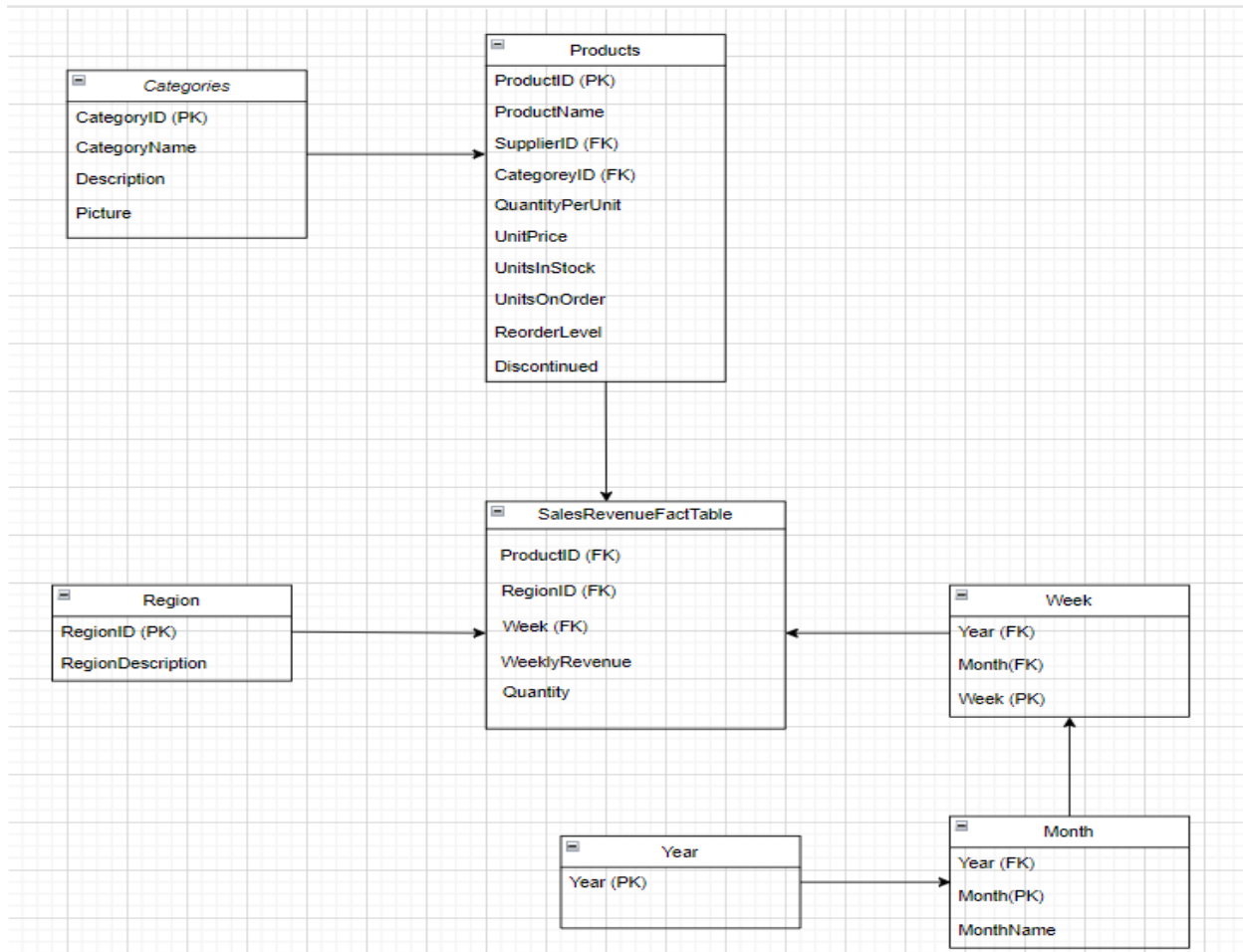
## The Dimensions Definition:

- **Product:** Products which are sold in the hyper market.
- **Day:** the time day that is used to calculate our measures in this fact

- **Customers:** person who buys products from hyper market this dimension is a role playing dimension, it has 2 relationship with fact table (Customer ID, City).

**The measures Definition:**

- **Daily Number of Customers:** customers who sold specific item in specific city on specific day.



### The Grain of the fact table:

The record in the fact table represents the overall weekly sales revenue of each category achieved in each region.

### The Dimensions Definitions:

- **Products:** The products which are sold in the hyper market.
- **Categories:** Represents the category of each product in the hyper market.
- **Region:** The region in which the products were sold (from its branches).
- **Week:** It helps to find the sales made on a weekly basis.

### **The Measures Definition:**

- **Weekly Sales Revenue:** The weekly revenue resulting from selling a specific product of a specific category in a specific region.
- **Quantity:** The quantity sold from each category in each region per week.