Entity-Relationship Diagram:

**Brands**
- ID
- Name

**Campaign**
- ID
- ProductID
- Duration
- Rate
- Name

**Product**
- ID
- TypeID
- Amount
- Name
- ExpirationDate
- IsImport

**Type**
- ID
- Name

**PurchaseProduct**
- ProductID
- PurchaseID
- ID

**Customer**
- PersonID
- ID

**Purchases**
- Total Amount
- ID
- PurchaseDate
- CustomerID
- Adress
- Credit Card

**Person**
- First Name
- Gender
- Phone Number
- ID
- Last Name

**Employee**
- ID
- PersonID
- Title

**Salary**
- EmployeeID
- ID
- Month
- Amount

**ProductNews**
- ProductID
- ID
- IsPublished
- Content
- EmployeeID

**Products**
- ID
- TypeID
- Amount
- Name
- BrandID
- ExpirationDate

**Customer**
- ID
- PersonID

**Purchases**
- ID
- Adress
- Customer ID
- Credit Card
- Total Amount
- PurchaseDate
- EmployeeID

**PurchaseProduct**
- ID
- ProductID
- PurchaseID

**Person**
- ID
- Gender
- Phone Number
- FirstName
- LastName

**Brands**
- ID
- Name

**Type**
- ID
- Name

**Employee**
- ID
- PersonID
- Title

**Salary**
- ID
- Amount
- Month
- EmployeeID

**Campaign**
- ID
- ProductID
- Rate
- Name
- Duration

**ProductNews**
- ID
- Content
- IsPublished
- EmployeeID
- ProductID

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After Phase 1, we add 5 more tables to our database. These are Salary, Employee, Person, Campaign and ProductNews. With those we can expand our database. With Person table we can connect customer and employee so that an employee can be a customer. Salary table contains salary for employees and employee table contains employees which are persons. Campaign table have the campaign which contains sales and its duration for a product. Lastly, ProductNews have the news for newest products.

In our Java application, we have 9 cases but one of them is using for quitting the code. Rest of them are all different function. First one is Create Product and it does create a new product into our database with name, amount, and expiration date. Second one is Create Campaign which creates a new campaign with its duration and sale rate. Third one creates employee with its title. Fourth function is Delete Product which deletes a product with its ID. Fifth one is Update Product and it changes the product (same as creating a product) with its ID. Sixth function is List Products which lists all the products. Seventh one is List Campaigns and it lists all campaigns. Last one is List Employee and it lists all the employees.