

**Faculty of Engineering and Technology**

**Department of Electrical and Computer Engineering**

**DATABASE SYSTEMS**

**COMP333**

**Baniyas Company**

**Phase 1**

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# **Baniyas Company**

Baniyas Company is a whole sales company in Jerusalem. We contacted the sales manager, whose name is Mohammed Imam. Currently, his account employees do their business and manage the work information in Excel files. In short, their job is: the salesmen bring up orders written by hand to the company, to prepare them for the next day to be shipped. The accountants fill these records on excel files. Hopefully, we are going to help them by implementing a good database system, which can manage their information properly.

The attributes and relationships between the data are described below:

* Customers have an id number, name, phone number ( might be more than one ), email, full address ( country, city, street number, building), balance, fax number, credit limit, last paid to date, last order, last visit date, active.
* Employees have an id, manager id, department id, birthdate, job title, contact salary, debt, vacation days, hire date, target, and active.
* Products have an id, barcode, name, price, weight, active, manufacturing date, expired date.
* Categories have an id number, name, and active states (to know if it is available in the market or not).
* Order has an id, total price, tax, order discount, date of order, warehouse, is returned attribute (Boolean).
* Order details have an id, quantity, created date, product discount percent, and product discount amount.
* Department has an id, name, and location.
* Contact has an id and phone.
* An employee (most of them) can work with many customers (like a salesman, driver... etc).
* A customer can contact and order from many employees (for example, the customer can contact the manager himself, or from the salesmen).
* An employee -like a salesman-can make many orders.
* A customer could order many orders, while an order is only made by one customer.
* A category might contain many products (at least one product), and each product must be in a category.
* A category could contain other categories.
* Some employees are responsible for other employees.
* An employee must work in only one department, while the department has many employees.
* An order has many details.
* A product could be in many orders, and orders can have many products.