

# CO226 Database Systems

## Description of the database project

### Group 06 (E/17/058, E/17/134, E/17/194)

The basic goal of the project is to develop an online platform for the users (intended for business to business trade) which enables them to display products, place orders and do payments online.

The platform is organized for **COMPANYs** which has sub-classes of **CUSTOMER** and **DISTRIBUTOR**. Each company has a unique **email address**, a unique **BRC No**, a unique **company ID**, a **password**, a **name**, a **type** and it's employees **work** for the company and an employee **manages** the company. A company may have more than one **location**.

The platform is centralized on selling **PRODUCTs** and each product has a unique **product ID**, a **brand**, a **model**, a **distributor**, a **name**, **manufactured country**, a **price** and a set of **specifications**.

Employees in a customer company using this platform are **ACCOUNTANT**, **SUPERVISOR**, **PURCHASING\_MANAGER** and **MANAGER**. Employees in a distributor company using this platform are **SALES\_PERSON**, **ACCOUNTANT** and **MANAGER**. We store their details such as a unique **user\_ID**, the **name**, the **gender**, a **password** and a unique **email address**.

Purchasing manager of a customer company **places ORDER** for products to the salesperson of the distributor company. An order has a unique **Order\_ID** and a **Due\_date**. The salesperson of the distributor company **delivers** the product to the customer company with a **bill** according to the order. The supervisor of a customer company will **rate** the product after using it.

The Accountant of a customer company **sends PAYMENT** to the distributor's accountant. The distributor company's accountant **sends OUTSTANDING** to the customer's accountant. Each payment has a unique **Payment\_ID**, a **Sender**, a **receiver**, the **amount**, **the method of payment** and several **Invoice\_numbers**. Each outstanding has a unique **Outstanding\_ID**, a **Sender**, a **receiver**, the **amount**, several **Invoice\_numbers** and the **Due\_Date**.