# **Contributors to this project:**

1- Mustafa Kamel Ahmed Ahmed

### 20191566103

2- Ziad Ahmed Mohamed Soliman

#### 20191635687

3- Mahmoud Khaled Mohamed Abdulsalam

#### 20191566151

4- Ziad Elsayed Mohamed Elsayed

## 20191566119

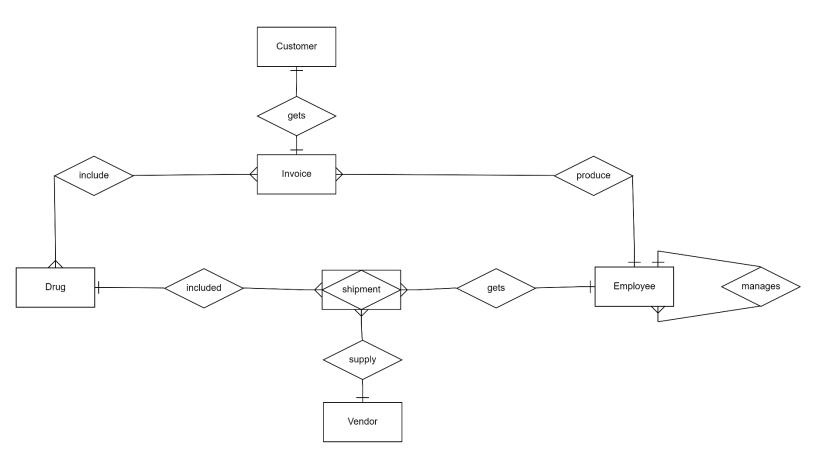
5- Abdelrahman Hossam Ali

### 20191480280

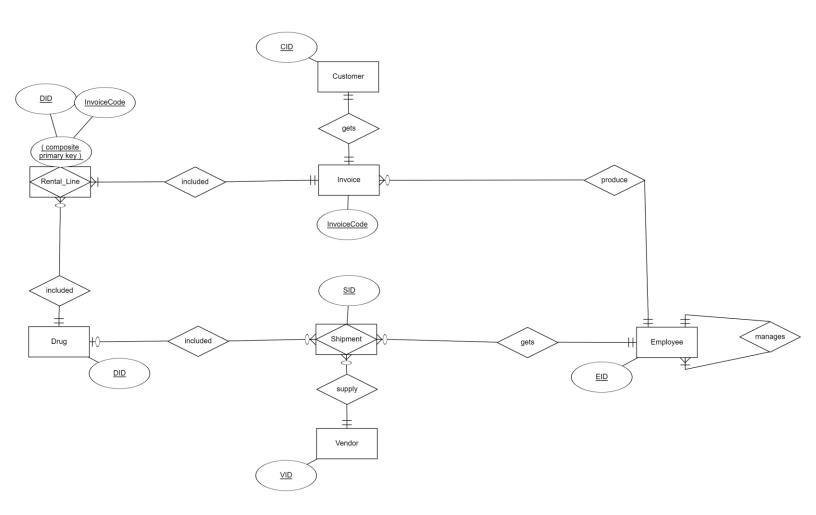
### **Business Rules:**

- Costumer must get one invoice
- **Invoice** must be gotten by one **Costumer**
- **Invoice** must be produced by one **Employee**
- Employee may produce one or more invoice
- **Employee** must be managed by one **Employee**
- **Employee** must manage one or more **Employee**
- **Employee** may get one or more **Shipment**
- **Shipment** must be gotten by one **Employee**
- **Shipment** may include one or more **drug**
- **Drug** may be included in one or more **Shipment**
- **Vendor** may supply one or more **shipment**
- **Shipment** must be supplied by one **vendor**
- **Drug** may be included in one or more **rental line**
- **Rental line** must include one **drug**
- **Rental line** must be included in one **invoice**
- **Invoice** must include one or more **rental line**

# **Conceptual Data Model:**



# **Key-Based Data Model:**



## **Fully Attributed Data Model:**

