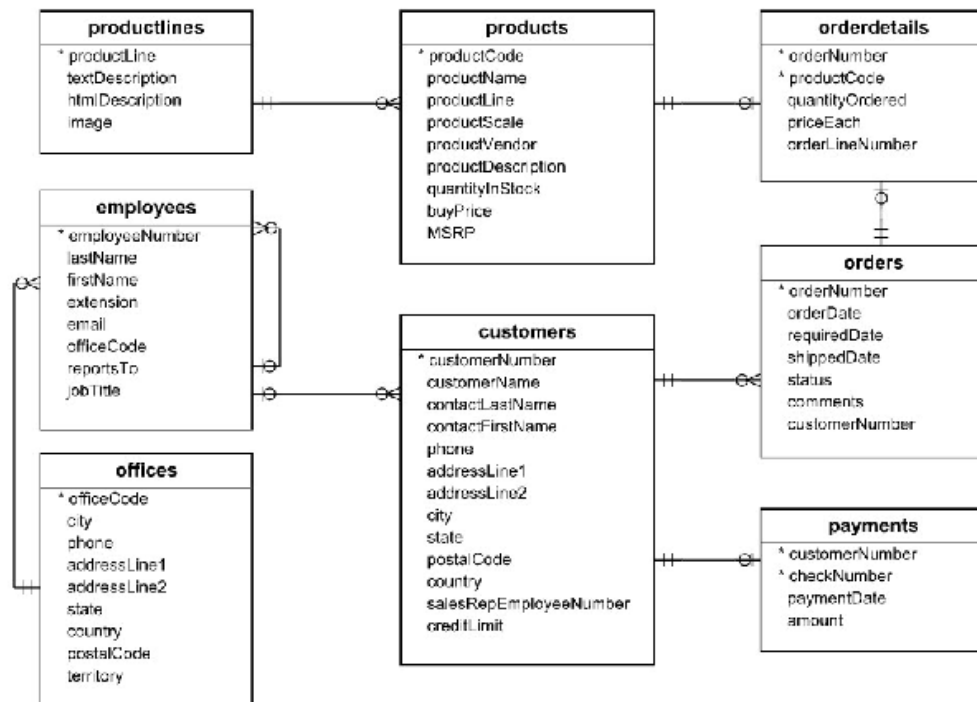


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Relationship ER-Diagram mysql sample database :

### MySQL Sample Database Diagram



\*Source : <http://www.mysqltutorial.org/mysql-sample-database.aspx>

### **1. Productlines and Products ( 1 to many ) :**

- Minimum number of products that productlines could have : zero
- Maximum number of products that productlines could have : many
- A product could only have one and only one productlines.

### **2. Productlines and Orders (many to many), which creates a new table : Orderdetails.**

#### **2.1. Products and orderdetails ( 1 to 1 ) :**

- An order details could have a zero or one product.
- A products could only have one and only have 1 orderdetails.

#### **2.2. Orderdetails and order ( 1 to 1 ) :**

- An order can only have one and only one orderdetails.
- An orderdetails could only have zero or 1 orderdetails.

### **3. Customer and order (1 to many) :**

- The amount orders that can be ordered by customer is zero or many
- A specific order can only have one and only one customer.

### **4. Employees and customers (1 to many) :**

- An employees may serve zero or 1 customer only
- A customer may be served by many employees or without employee.

### **5. Customer and payments (1 to many) :**

- A customer may pay or not pay the payments.
- A specific payment can be only paid by only and only one customers.

### **6. Office and employees ( 1 to many ) :**

- An office can be occupied by zero or many employees.
- An employees can only have one and only one offices.

### **7. Employees to employees ( 1 to many ) :**

- An employee as a manager could lead many employees or none.
- An employee could may have one leader or none