

**Mahbod Darami – 117135244 DBMS for a GROCERY STORE**

**Entities:** Customers, Orders, Employees, Products, Suppliers, OrderDetails,

**Business rules :**

1 Customers can have many orders (Customers<-> Orders 1,M)

, multiple product can be in order, and we can have multiple orders for each product  
(Products<->Order M,M)

, each employee multiple orders (Employee<->Orders 1,M) ,

each supplier multi products ( Suppliers<-> Products M,1)

**ERD:**

Customers [ customerID(PK), CustName, CustPhone, CustAddress,]

Orders [ OrderID(PK), EmpID(FK), customerID (FK), OrderDate ]

Products [ ProductID(PK), SupplierID(FK), ProductClass, MadeBy ]

OrderDetails [ OrderID(PK)(FK), ProductID(PK)(FK), Quantity, PurchasePrice ]

Employees [ EmpID(PK) ,EmpName,Salary,Email,Address, EmpPhone ]

Suppliers [ SupplierID(PK), SupAddress, SupPhonNumber, SupName ]