



## Tables and Fields

### Branch

- branch\_code (PK)
- branch\_name
- location
- contact\_number

### Product

- product\_id (PK)
- product\_name
- size
- color
- category
- unit\_price
- Discontinued

### Inventory

- branch\_code (PK)
- product\_id (PK)
- quantity

### Customer

- customer\_id (PK)
- first\_name
- last\_name
- email
- isMember

### Member

- member\_id (PK)
- customer\_id
- gender
- Date\_registered

### Sales Rep

- sales\_rep\_id (PK)
- name
- branch\_code (FK → Branch)
- email
- hire\_date
- active\_status

### Sales

- sale\_id (PK)
- customer\_id (FK → Customer)
- sales\_rep\_id (FK → Sales Rep)
- branch\_code (FK → Branch)
- sale\_date
- payment\_type
- total\_amount

### **Sales Items**

- sale\_item\_id (PK)
- sale\_id (FK → Sales)
- product\_id (FK → Product)
- quantity\_ordered
- unit\_price

### **Restock**

- restock\_id (PK)
- product\_id (FK → Product)
- supplier\_name
- quantity\_added
- cost\_price
- restock\_date

### **Returns**

- return\_id (PK)
- sales\_id (FK)
- return\_date
- reason

### **Return Items**

- return\_item\_id (PK)
- return\_id (FK → Returns)
- product\_id (FK → Product)
- quantity\_returned

### **Stock Transfer**

- transfer\_id (PK)
- product\_id (FK → Product)
- source\_branch\_code (FK → Branch)
- dest\_branch\_code (FK → Branch)
- quantity\_transferred
- transfer\_date
- Reason

## Supplier

- supplier\_id (PK)
- supplier\_name
- contact\_person
- email
- phone\_no
- address

## Relationships Between Tables

Parent Table	Child Table	Cardinality	Description
Branch	SalesRep	1 to many	A branch can have multiple sales representatives.
Branch	Sales	1 to many	A sale occurs in one branch.
Branch	StockTransfer	1 to many (x2)	Branch can be both source and destination in stock transfers.
Product	Inventory	1 to many	A product can exist in the inventory of multiple branches.
Product	SalesItems	1 to many	A product can be sold in multiple sales.
Product	Restock	1 to many	A product can be restocked multiple times.
Product	ReturnItems	1 to many	A product can be returned in many return records.
Product	StockTransfer	1 to many	A product can be transferred between branches multiple times.

Customer	Sales	1 to many	A customer can place multiple sales.
Customer	Member	1 to 0..1	A customer can be a member (or not).
SalesRep	Sales	1 to many	A sales rep can handle multiple sales.
Sales	SalesItems	1 to many	A sale can contain multiple products/items.
Sales	Returns	1 to many	A sale can result in multiple return records.
Returns	ReturnItems	1 to many	A return can include multiple return items.
Supplier	Restock	1 to many	A supplier can restock multiple products.