



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)
- 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.