Branch

branch_code VARCHAR(11)
branch_name VARCHAR(45)
location VARCHAR(100)
contact_number VARCHAR(20)

Product

product_id INT
product_name VARCHAR(45)
size VARCHAR(10)
color VARCHAR(45)
category VARCHAR(45)
quantity_in_stock INT
unit_price DECIMAL(10,2)
discontinued TINYINT

Customer

customer_id INT
first_name VARCHAR(45)
last_name VARCHAR(45)
email VARCHAR(45)
isMember TINYINT

Restock

restock_id INT
product_id INT (FK)
supplier_name VARCHAR(45)
quantity_added INT
cost_price DECIMAL(10,2)
restock_date DATE

Sales

sales_id INT
customer_id INT (FK)
sales_rep_id INT (FK)
branch_code VARCHAR(11) (FK)
sale_date DATE
payment_type VARCHAR(45)
total_amout DECIMAL(10,2)

Sales Rep

sales_rep_id INT
name VARCHAR(45)
branch_code VARCHAR(11) (FK)
email VARCHAR(45)
hire_date DATE
active_status VARCHAR(20)

Member

member_id INT
customer_id INT (FK)
gender VARCHAR(10)
date_registered DATE

Sales Items

sale_item_id INT
sale_id INT (FK)
product_id INT (FK)
quantity_ordered INT
unit_price DECIMAL(1...

Stock Transfer

transfer_id INT
product_id INT (FK)
source_branch_code VARCHAR(11) (FK)
dest_branch_code VARCHAR(11) (FK)
quantity_transferred INT
transfer_date DATE
reason VARCHAR(100)

Returns

return_id INT
sale_id INT (FK)
return_date DATE
reason VARCHAR(100)

Return Items

return_item_id INT
return_id INT (FK)
product_id INT (FK)
quantity_returned INT

Tables and Fields

Branch

- branch_code (PK)
- branch_name
- location
- contact_number

Product

- product_id (PK)
- product_name
- size
- color
- category
- quantity_in_stock
- unit_price
- discontinued

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)
- sale_id (FK → Sales)
- 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

Relationships Between Tables

Parent Table	Child Table	Relationship Type	Description
Branch	Sales Rep	One-to-Many	Each branch can have many sales reps.
Branch	Sales	One-to-Many	Each sale happens at a single branch.
Branch	Stock Transfer	One-to-Many (×2)	A transfer has both a source and destination branch.
Product	Sales Items	One-to-Many	A product can appear in many sale items.
Product	Restock	One-to-Many	A product can be restocked multiple times.
Product	Return Items	One-to-Many	A product can be returned in many return entries.
Product	Stock Transfer	One-to-Many	A product can be transferred between branches multiple times.
Customer	Sales	One-to-Many	A customer can make many purchases.
Customer	Member	one-to-one	One Customer may have zero or one Member entry.
Sales Rep	Sales	One-to-Many	A sales rep can facilitate many sales.
Sales	Sales Items	One-to-Many	One sale can have multiple items (products).
Sales	Returns	One-to-Many	One sale can have multiple return transactions.
Returns	Return Items	One-to-Many	One return can include multiple items.