

1 product can be returned by many orders

products
product_id VARCHAR(50)
category_id INT
product_name TEXT
Indexes

subcategories
sub_id INT
sub_category VARCHAR(100)
Indexes

Reference Table

1 category includes many categori...

1 category includes multiple products

categories
category_id INT
category VARCHAR(100)
subCat_id INT
Indexes

Reference Table

returns
order_id VARCHAR(50)
product_id VARCHAR(50)
customer_id VARCHAR(50)
order_date DATE
amount DECIMAL(10,2)
discount DECIMAL(4,2)
quantity INT
Indexes

Bridging Table

1 customer can return many orders

customersegme...
segment_id INT
segment VARCHAR(100)
Indexes

Reference Table

1 segment has many customers

customers
customer_id VARCHAR(50)
segment_id INT
customer_name VARCHAR(255)
region_id INT
state_id INT
city VARCHAR(100)
Indexes

Many customers live in 1 sta...

states
state_id INT
state VARCHAR(100)
Indexes

Reference Table

1 region has many customers

Reference Table

1 customer can place multiple orders

orders
order_id VARCHAR(50)
order_date DATE
ship_date DATE
ship_id INT
customer_id VARCHAR(50)
region_id INT
product_id VARCHAR(50)
sales DECIMAL(10,2)
quantity INT
discount DECIMAL(4,2)
profit DECIMAL(10,2)
profit_margin DECIMAL(5,2)
discount_amount DECIMAL(10,2)
shipping_time_days INT
Indexes

fk_orders_regions1

1 order handled by 1 shipment

regions
region_id INT
region VARCHAR(100)
manager VARCHAR(100)
Indexes

Reference Table

shipments
ship_id INT
order_id VARCHAR(50)
order_date DATE
ship_date DATE
ship_mode_id INT
customer_id VARCHAR(50)
product_id VARCHAR(50)
quantity INT
Indexes

1 shipmode can be referenced to many shipments

shipmodes
id INT
ship_mode VARCHAR(100)
Indexes

Reference table

allRecords
transaction_id INT
order_id VARCHAR(50)
order_date DATE
ship_date DATE
ship_mode VARCHAR(100)
customer_id VARCHAR(50)
customer_name VARCHAR(255)
segment VARCHAR(100)
city VARCHAR(100)
state VARCHAR(100)
13 more...

Meta Data Table
Indexes