1. **Create tables in sales schema**

**Create Stores Table**

store\_id INT IDENTITY (1, 1) PRIMARY KEY,

store\_name VARCHAR (255) NOT NULL,

phone VARCHAR (25),

email VARCHAR (255),

street VARCHAR (255),

city VARCHAR (255),

state VARCHAR (10),

1. zip\_code VARCHAR (5)

**Create Customers** Table

customer\_id INT IDENTITY (1, 1) PRIMARY KEY,

first\_name VARCHAR (255) NOT NULL,

last\_name VARCHAR (255) NOT NULL,

phone VARCHAR (25),

email VARCHAR (255) NOT NULL,

street VARCHAR (255),

city VARCHAR (50),

state VARCHAR (25),

zip\_code VARCHAR (5)

**Create Staffs** Table

staff\_id INT IDENTITY (1, 1) PRIMARY KEY,

first\_name VARCHAR (50) NOT NULL,

last\_name VARCHAR (50) NOT NULL,

email VARCHAR (255) NOT NULL UNIQUE,

phone VARCHAR (25),

active tinyint NOT NULL,

store\_id INT NOT NULL,

manager\_id INT,

FOREIGN KEY (store\_id) REFERENCES sales.stores (store\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (manager\_id) REFERENCES sales.staffs (staff\_id) ON DELETE NO ACTION ON UPDATE NO ACTION

**Create Orders** Table

order\_id INT IDENTITY (1, 1) PRIMARY KEY,

customer\_id INT,

order\_status tinyint NOT NULL,

-- Order status: 1 = Pending; 2 = Processing; 3 = Rejected; 4 = Completed

order\_date DATE NOT NULL,

required\_date DATE NOT NULL,

shipped\_date DATE,

store\_id INT NOT NULL,

staff\_id INT NOT NULL,

FOREIGN KEY (customer\_id) REFERENCES sales.customers (customer\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (store\_id) REFERENCES sales.stores (store\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (staff\_id) REFERENCES sales.staffs (staff\_id) ON DELETE NO ACTION ON UPDATE NO ACTION

**Create Order\_items** Table

order\_id INT,

item\_id INT,

product\_id INT NOT NULL,

quantity INT NOT NULL,

list\_price DECIMAL (10, 2) NOT NULL,

discount DECIMAL (4, 2) NOT NULL DEFAULT 0,

PRIMARY KEY (order\_id, item\_id),

FOREIGN KEY (order\_id) REFERENCES sales.orders (order\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (product\_id) REFERENCES production.products (product\_id) ON DELETE CASCADE ON UPDATE CASCADE

1. **Create Tables in Production Schema**

**Create Categories** Table

category\_id INT IDENTITY (1, 1) PRIMARY KEY,

category\_name VARCHAR (255) NOT NULL

**Create Brands** Table

brand\_id INT IDENTITY (1, 1) PRIMARY KEY,

brand\_name VARCHAR (255) NOT NULL

**Create Products** Table

product\_id INT IDENTITY (1, 1) PRIMARY KEY,

product\_name VARCHAR (255) NOT NULL,

brand\_id INT NOT NULL,

category\_id INT NOT NULL,

model\_year SMALLINT NOT NULL,

list\_price DECIMAL (10, 2) NOT NULL,

FOREIGN KEY (category\_id) REFERENCES production.categories (category\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (brand\_id) REFERENCES production.brands (brand\_id) ON DELETE CASCADE ON UPDATE CASCADE

**Create Stocks** Table

store\_id INT,

product\_id INT,

quantity INT,

PRIMARY KEY (store\_id, product\_id),

FOREIGN KEY (store\_id) REFERENCES sales.stores (store\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (product\_id) REFERENCES production.products (product\_id) ON DELETE CASCADE ON UPDATE CASCADE

For your reference on Schemas

Diagram

Description automatically generated