

Description of tables:

Table: department

- department_id → int, PRIMARY KEY,
- department_name → varchar, NOT NULL

Table: position

- position_id → int, PRIMARY KEY,
- position_name → varchar, NOT NULL
- department_id → int, FOREIGN KEY → department(department_id),

Table: brand

- brand_id → int, PRIMARY KEY,
- brand_name → varchar, NOT NULL

Table: categories

- category_id → int, PRIMARY KEY,
- category_name → varchar, NOT NULL
- description → text, NOT NULL

Table: customers

- customer_id → int, PRIMARY KEY,
- first_name → varchar, NOT NULL
- last_name → varchar, NOT NULL
- email → varchar, NOT NULL, UNIQUE , CHECK (email LIKE '%@%')

- phone → varchar, NOT NULL
- address → text, NOT NULL
- city → varchar, NOT NULL
- state → varchar, NOT NULL
- zip_code → varchar, NOT NULL
- registration_date → date, NOT NULL
- birth_date → date, NOT NULL

Table: employees

- employee_id → int, PRIMARY KEY,
- first_name → varchar, NOT NULL
- last_name → varchar, NOT NULL
- email → varchar, NOT NULL, UNIQUE , CHECK (email LIKE '%@%')
- department_id → int, FOREIGN KEY → department(department_id),
- position_id → int, FOREIGN KEY → position(position_id),
- hire_date → date, NOT NULL
- salary → numeric, NOT NULL
- manager_id → int, FOREIGN KEY → employees(employee_id),

Table: orders

- order_id → int, PRIMARY KEY,

- customer_id → int, FOREIGN KEY → customers(customer_id),
- order_date → date, NOT NULL
- status → varchar, NOT NULL
- payment_method_id → int, FOREIGN KEY → payment_method(payment_method_id),
- shipping_address → text, NOT NULL
- shipping_city → varchar, NOT NULL
- shipping_state → varchar, NOT NULL
- shipping_zip → varchar, NOT NULL
- shipping_date → date,
- delivery_date → date,
- total_amount → numeric, NOT NULL

Table: payment_method

- payment_method_id → int, PRIMARY KEY,
- method_name → varchar, NOT NULL

Table: order_items

- order_item_id → int, PRIMARY KEY,
- order_id → int, FOREIGN KEY → orders(order_id),
- product_id → int, FOREIGN KEY → products(product_id),

- quantity → int, NOT NULL
- unit_price → numeric, NOT NULL

Table: products

- product_id → int, PRIMARY KEY,
- product_name → varchar, NOT NULL
- category_id → int, FOREIGN KEY → categories(category_id),
- brand_id → int, FOREIGN KEY → brand(brand_id),
- price → numeric, NOT NULL
- cost → numeric, NOT NULL
- stock_quantity → int, NOT NULL
- weight_kg → numeric, NOT NULL
- dimensions → varchar, NOT NULL
- description → text, NOT NULL
- created_date → date, NOT NULL

Table: product_suppliers

- product_id → int, FOREIGN KEY → products(product_id),
- supplier_id → int, FOREIGN KEY → suppliers(supplier_id),
- supply_price → numeric, NOT NULL
- lead_time_days → int, NOT NULL

- min_order_quantity → int,NOT NULL
- (Primary Key: Composite of product_id, supplier_id)

Table: suppliers

- supplier_id → int, PRIMARY KEY,
- supplier_name → varchar, NOT NULL
- contact_person → varchar,NOT NULL
- email → varchar, NOT NULL, UNIQUE ,CHECK (email LIKE '%@%')
- phone → varchar,NOT NULL
- address → text,NOT NULL
- city → varchar,NOT NULL
- state → varchar,NOT NULL
- country → varchar,NOT NULL
- rating → numeric, CHECK (rating >= 0 AND rating <= 5)

Table: promotions

- promotion_id → int, PRIMARY KEY,
- promotion_name → varchar, NOT NULL
- description → text,NOT NULL
- discount_percentage → numeric, NOT NULL, CHECK (discount_percentage BETWEEN 0 AND 100)
- start_date → date, NOT NULL
- end_date → date, NOT NULL

- category_id → int, FOREIGN KEY → categories(category_id),

♦ **Table: reviews**

- review_id → int, PRIMARY KEY,
- customer_id → int, FOREIGN KEY → customers(customer_id),
- product_id → int, FOREIGN KEY → products(product_id),
- order_id → int, FOREIGN KEY → orders(order_id),
- rating → int, NOT NULL, CHECK (rating BETWEEN 1 AND 5)
- review_text → text,
- review_date → date, NOT NULL
- helpful_votes → int, NOT NULL

♦ **Table: inventory_movements**

- movement_id → int, PRIMARY KEY,
- product_id → int, FOREIGN KEY → products(product_id),
- movement_type_id → int, FOREIGN KEY → movement_types(movement_type_id),
- employee_id → int, FOREIGN KEY → employees(employee_id),
- quantity → int, NOT NULL
- movement_date → date, NOT NULL
- reference_number → varchar,
- notes → text, NOT NULL

♦ **Table: movement_types**

- movement_type_id → int, PRIMARY KEY,
- type_name → varchar, NOT NULL