

Tables (22)

Name	Type	Schema
addresses		CREATE TABLE addresses (address_id INTEGER PRIMARY KEY, customer_id INTEGER NOT NULL, label TEXT, line1 TEXT NOT NULL, city TEXT NOT NULL, province TEXT NOT NULL, postal_code TEXT NOT NULL, country TEXT NOT NULL DEFAULT 'South Africa', is_default INTEGER NOT NULL DEFAULT 0 CHECK (is_default IN (0,1)), created_at TEXT NOT NULL DEFAULT (datetime('now')), FOREIGN KEY (customer_id) REFERENCES customers(customer_id) ON DELETE CASCADE)
address_id	INTEGER	"address_id" INTEGER
customer_id	INTEGER	"customer_id" INTEGER NOT NULL
label	TEXT	"label" TEXT
line1	TEXT	"line1" TEXT NOT NULL
city	TEXT	"city" TEXT NOT NULL
province	TEXT	"province" TEXT NOT NULL
postal_code	TEXT	"postal_code" TEXT NOT NULL
country	TEXT	"country" TEXT NOT NULL DEFAULT 'South Africa'
is_default	INTEGER	"is_default" INTEGER NOT NULL DEFAULT 0 CHECK("is_default" IN (0, 1))
created_at	TEXT	"created_at" TEXT NOT NULL DEFAULT (datetime('now'))
categories		CREATE TABLE categories (category_id INTEGER PRIMARY KEY, name TEXT NOT NULL UNIQUE, parent_id INTEGER, FOREIGN KEY (parent_id) REFERENCES categories(category_id) ON DELETE SET NULL)
category_id	INTEGER	"category_id" INTEGER
name	TEXT	"name" TEXT NOT NULL UNIQUE
parent_id	INTEGER	"parent_id" INTEGER
customers		CREATE TABLE customers (customer_id INTEGER PRIMARY KEY, full_name TEXT NOT NULL, email TEXT NOT NULL UNIQUE, phone TEXT UNIQUE, created_at TEXT NOT NULL DEFAULT (datetime('now')))
customer_id	INTEGER	"customer_id" INTEGER
full_name	TEXT	"full_name" TEXT NOT NULL
email	TEXT	"email" TEXT NOT NULL UNIQUE
phone	TEXT	"phone" TEXT UNIQUE
created_at	TEXT	"created_at" TEXT NOT NULL DEFAULT (datetime('now'))
delivery_methods		CREATE TABLE delivery_methods (method_code TEXT PRIMARY KEY, -- 'STANDARD', 'EXPRESS', 'SAME_DAY', 'ECONOMY' name TEXT NOT NULL, base_fee REAL NOT NULL DEFAULT 0 CHECK (base_fee >= 0), active INTEGER NOT NULL DEFAULT 1 CHECK (active IN (0,1)))
method_code	TEXT	"method_code" TEXT
name	TEXT	"name" TEXT NOT NULL
base_fee	REAL	"base_fee" REAL NOT NULL DEFAULT 0 CHECK("base_fee" >= 0)
active	INTEGER	"active" INTEGER NOT NULL DEFAULT 1 CHECK("active" IN (0, 1))
delivery_partners		CREATE TABLE delivery_partners (partner_id INTEGER PRIMARY KEY, name TEXT NOT NULL UNIQUE, service_level TEXT NOT NULL REFERENCES delivery_methods(method_code))
partner_id	INTEGER	"partner_id" INTEGER
name	TEXT	"name" TEXT NOT NULL UNIQUE
service_level	TEXT	"service_level" TEXT NOT NULL
delivery_slots		CREATE TABLE delivery_slots (slot_id INTEGER

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		PRIMARY KEY, partner_id INTEGER, window_start TEXT NOT NULL, window_end TEXT NOT NULL, capacity INTEGER NOT NULL CHECK (capacity >= 0), FOREIGN KEY (partner_id) REFERENCES delivery_partners(partner_id) ON DELETE SET NULL)
slot_id	INTEGER	"slot_id" INTEGER
partner_id	INTEGER	"partner_id" INTEGER
window_start	TEXT	"window_start" TEXT NOT NULL
window_end	TEXT	"window_end" TEXT NOT NULL
capacity	INTEGER	"capacity" INTEGER NOT NULL CHECK("capacity" >= 0)
loyalty_accounts		CREATE TABLE loyalty_accounts (account_id INTEGER PRIMARY KEY, customer_id INTEGER NOT NULL UNIQUE, points_balance INTEGER NOT NULL DEFAULT 0 CHECK (points_balance >= 0), tier TEXT NOT NULL DEFAULT 'STANDARD' CHECK (tier IN ('STANDARD', 'SILVER', 'GOLD', 'PLATINUM')), FOREIGN KEY (customer_id) REFERENCES customers(customer_id) ON DELETE CASCADE)
account_id	INTEGER	"account_id" INTEGER
customer_id	INTEGER	"customer_id" INTEGER NOT NULL UNIQUE
points_balance	INTEGER	"points_balance" INTEGER NOT NULL DEFAULT 0 CHECK("points_balance" >= 0)
tier	TEXT	"tier" TEXT NOT NULL DEFAULT 'STANDARD' CHECK("tier" IN ('STANDARD', 'SILVER', 'GOLD', 'PLATINUM'))
loyalty_ledger		CREATE TABLE loyalty_ledger (ledger_id INTEGER PRIMARY KEY, account_id INTEGER NOT NULL, order_id INTEGER, txn_type TEXT NOT NULL CHECK (txn_type IN ('EARN', 'REDEEM', 'ADJUST')), points INTEGER NOT NULL CHECK (points <> 0), note TEXT, created_at TEXT NOT NULL DEFAULT (datetime('now')), FOREIGN KEY (account_id) REFERENCES loyalty_accounts(account_id) ON DELETE CASCADE, FOREIGN KEY (order_id) REFERENCES orders(order_id) ON DELETE SET NULL)
ledger_id	INTEGER	"ledger_id" INTEGER
account_id	INTEGER	"account_id" INTEGER NOT NULL
order_id	INTEGER	"order_id" INTEGER
txn_type	TEXT	"txn_type" TEXT NOT NULL CHECK("txn_type" IN ('EARN', 'REDEEM', 'ADJUST'))
points	INTEGER	"points" INTEGER NOT NULL CHECK("points" <> 0)
note	TEXT	"note" TEXT
created_at	TEXT	"created_at" TEXT NOT NULL DEFAULT (datetime('now'))
order_items		CREATE TABLE order_items (order_item_id INTEGER PRIMARY KEY, order_id INTEGER NOT NULL, product_id INTEGER NOT NULL, variant_id INTEGER, -- snapshot which variant was bought vendor_id INTEGER, -- snapshot which vendor fulfilled this line qty INTEGER NOT NULL CHECK (qty > 0), unit_price REAL NOT NULL CHECK (unit_price >= 0), line_total REAL NOT NULL CHECK (line_total >= 0), FOREIGN KEY (order_id) REFERENCES orders(order_id) ON DELETE CASCADE, FOREIGN KEY (product_id) REFERENCES products(product_id), FOREIGN KEY (variant_id) REFERENCES product_variants(variant_id), FOREIGN KEY (vendor_id) REFERENCES vendors(vendor_id))
order_item_id	INTEGER	"order_item_id" INTEGER
order_id	INTEGER	"order_id" INTEGER NOT NULL
product_id	INTEGER	"product_id" INTEGER NOT NULL
variant_id	INTEGER	"variant_id" INTEGER

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vendor_id	INTEGER	"vendor_id" INTEGER
qty	INTEGER	"qty" INTEGER NOT NULL CHECK("qty" > 0)
unit_price	REAL	"unit_price" REAL NOT NULL CHECK("unit_price" >= 0)
line_total	REAL	"line_total" REAL NOT NULL CHECK("line_total" >= 0)
orders		CREATE TABLE orders (order_id INTEGER PRIMARY KEY, order_number TEXT NOT NULL UNIQUE, customer_id INTEGER NOT NULL, shipping_address_id INTEGER NOT NULL, delivery_method TEXT NOT NULL REFERENCES delivery_methods(method_code), status TEXT NOT NULL CHECK (status IN ('PENDING', 'PAID', 'FULFILLING', 'SHIPPED', 'DELIVERED', 'CANCELLED', 'RETURNED')), order_date TEXT NOT NULL DEFAULT (datetime('now')), subtotal REAL NOT NULL DEFAULT 0 CHECK (subtotal >= 0), discount REAL NOT NULL DEFAULT 0 CHECK (discount >= 0), tax REAL NOT NULL DEFAULT 0 CHECK (tax >= 0), shipping_fee REAL NOT NULL DEFAULT 0 CHECK (shipping_fee >= 0), total REAL NOT NULL CHECK (total >= 0), payment_status TEXT NOT NULL CHECK (payment_status IN ('UNPAID', 'PARTIAL', 'PAID', 'REFUNDED')), FOREIGN KEY (customer_id) REFERENCES customers(customer_id), FOREIGN KEY (shipping_address_id) REFERENCES addresses(address_id))
order_id	INTEGER	"order_id" INTEGER
order_number	TEXT	"order_number" TEXT NOT NULL UNIQUE
customer_id	INTEGER	"customer_id" INTEGER NOT NULL
shipping_address_id	INTEGER	"shipping_address_id" INTEGER NOT NULL
delivery_method	TEXT	"delivery_method" TEXT NOT NULL
status	TEXT	"status" TEXT NOT NULL CHECK("status" IN ('PENDING', 'PAID', 'FULFILLING', 'SHIPPED', 'DELIVERED', 'CANCELLED', 'RETURNED'))
order_date	TEXT	"order_date" TEXT NOT NULL DEFAULT (datetime('now'))
subtotal	REAL	"subtotal" REAL NOT NULL DEFAULT 0 CHECK("subtotal" >= 0)
discount	REAL	"discount" REAL NOT NULL DEFAULT 0 CHECK("discount" >= 0)
tax	REAL	"tax" REAL NOT NULL DEFAULT 0 CHECK("tax" >= 0)
shipping_fee	REAL	"shipping_fee" REAL NOT NULL DEFAULT 0 CHECK("shipping_fee" >= 0)
total	REAL	"total" REAL NOT NULL CHECK("total" >= 0)
payment_status	TEXT	"payment_status" TEXT NOT NULL CHECK("payment_status" IN ('UNPAID', 'PARTIAL', 'PAID', 'REFUNDED'))
payment_methods		CREATE TABLE payment_methods (method_code TEXT PRIMARY KEY, -- 'CARD', 'EFT', 'COD', 'WALLET' name TEXT NOT NULL, active INTEGER NOT NULL DEFAULT 1 CHECK (active IN (0,1)))
method_code	TEXT	"method_code" TEXT
name	TEXT	"name" TEXT NOT NULL
active	INTEGER	"active" INTEGER NOT NULL DEFAULT 1 CHECK("active" IN (0, 1))
payments		CREATE TABLE payments (payment_id INTEGER PRIMARY KEY, order_id INTEGER NOT NULL, method TEXT NOT NULL REFERENCES payment_methods(method_code), amount REAL NOT NULL CHECK (amount >= 0), status TEXT NOT NULL CHECK (status IN ('PENDING', 'SUCCESS', 'FAILED', 'REFUNDED')), paid_at TEXT, txn_ref TEXT UNIQUE, FOREIGN KEY (order_id) REFERENCES orders(order_id) ON DELETE CASCADE)
payment_id	INTEGER	"payment_id" INTEGER
order_id	INTEGER	"order_id" INTEGER NOT NULL
method	TEXT	"method" TEXT NOT NULL
amount	REAL	"amount" REAL NOT NULL CHECK("amount" >= 0)

Name	Type	Schema
status	TEXT	"status" TEXT NOT NULL CHECK("status" IN ('PENDING', 'SUCCESS', 'FAILED', 'REFUNDED'))
paid_at	TEXT	"paid_at" TEXT
txn_ref	TEXT	"txn_ref" TEXT UNIQUE
product_inventory		CREATE TABLE product_inventory (product_id INTEGER NOT NULL, warehouse_id INTEGER NOT NULL, qty_on_hand INTEGER NOT NULL DEFAULT 0 CHECK (qty_on_hand >= 0), reorder_point INTEGER NOT NULL DEFAULT 0 CHECK (reorder_point >= 0), PRIMARY KEY (product_id, warehouse_id), FOREIGN KEY (product_id) REFERENCES products(product_id) ON DELETE CASCADE, FOREIGN KEY (warehouse_id) REFERENCES warehouses(warehouse_id) ON DELETE CASCADE)
product_id	INTEGER	"product_id" INTEGER NOT NULL
warehouse_id	INTEGER	"warehouse_id" INTEGER NOT NULL
qty_on_hand	INTEGER	"qty_on_hand" INTEGER NOT NULL DEFAULT 0 CHECK("qty_on_hand" >= 0)
reorder_point	INTEGER	"reorder_point" INTEGER NOT NULL DEFAULT 0 CHECK("reorder_point" >= 0)
product_variants		CREATE TABLE product_variants (variant_id INTEGER PRIMARY KEY, product_id INTEGER NOT NULL, variant_sku TEXT NOT NULL UNIQUE, variant_name TEXT NOT NULL, -- e.g., "128GB Black" price_delta REAL NOT NULL DEFAULT 0, -- add/subtract on base_price weight_delta REAL NOT NULL DEFAULT 0, active INTEGER NOT NULL DEFAULT 1 CHECK (active IN (0,1)), FOREIGN KEY (product_id) REFERENCES products(product_id) ON DELETE CASCADE)
variant_id	INTEGER	"variant_id" INTEGER
product_id	INTEGER	"product_id" INTEGER NOT NULL
variant_sku	TEXT	"variant_sku" TEXT NOT NULL UNIQUE
variant_name	TEXT	"variant_name" TEXT NOT NULL
price_delta	REAL	"price_delta" REAL NOT NULL DEFAULT 0
weight_delta	REAL	"weight_delta" REAL NOT NULL DEFAULT 0
active	INTEGER	"active" INTEGER NOT NULL DEFAULT 1 CHECK("active" IN (0, 1))
products		CREATE TABLE products (product_id INTEGER PRIMARY KEY, sku TEXT NOT NULL UNIQUE, name TEXT NOT NULL, category_id INTEGER, base_price REAL NOT NULL CHECK (base_price >= 0), weight_kg REAL NOT NULL DEFAULT 0 CHECK (weight_kg >= 0), active INTEGER NOT NULL DEFAULT 1 CHECK (active IN (0,1)), created_at TEXT NOT NULL DEFAULT (datetime('now')), FOREIGN KEY (category_id) REFERENCES categories(category_id) ON DELETE SET NULL)
product_id	INTEGER	"product_id" INTEGER
sku	TEXT	"sku" TEXT NOT NULL UNIQUE
name	TEXT	"name" TEXT NOT NULL
category_id	INTEGER	"category_id" INTEGER
base_price	REAL	"base_price" REAL NOT NULL CHECK("base_price" >= 0)
weight_kg	REAL	"weight_kg" REAL NOT NULL DEFAULT 0 CHECK("weight_kg" >= 0)
active	INTEGER	"active" INTEGER NOT NULL DEFAULT 1 CHECK("active" IN (0, 1))
created_at	TEXT	"created_at" TEXT NOT NULL DEFAULT (datetime('now'))
refunds		CREATE TABLE refunds (refund_id INTEGER PRIMARY KEY, order_id INTEGER NOT NULL, payment_id INTEGER, amount REAL NOT NULL CHECK (amount >= 0), method TEXT NOT NULL CHECK (method IN ('ORIGINAL', 'MANUAL', 'WALLET')), status TEXT NOT

Name	Type	Schema
		NULL CHECK (status IN ('PENDING', 'PROCESSED', 'FAILED')), processed_at TEXT, FOREIGN KEY (order_id) REFERENCES orders(order_id) ON DELETE CASCADE, FOREIGN KEY (payment_id) REFERENCES payments(payment_id) ON DELETE SET NULL)
refund_id	INTEGER	"refund_id" INTEGER
order_id	INTEGER	"order_id" INTEGER NOT NULL
payment_id	INTEGER	"payment_id" INTEGER
amount	REAL	"amount" REAL NOT NULL CHECK("amount" >= 0)
method	TEXT	"method" TEXT NOT NULL CHECK("method" IN ('ORIGINAL', 'MANUAL', 'WALLET'))
status	TEXT	"status" TEXT NOT NULL CHECK("status" IN ('PENDING', 'PROCESSED', 'FAILED'))
processed_at	TEXT	"processed_at" TEXT
returns		CREATE TABLE returns (return_id INTEGER PRIMARY KEY, order_id INTEGER NOT NULL, order_item_id INTEGER, reason TEXT NOT NULL, status TEXT NOT NULL CHECK (status IN ('REQUESTED', 'APPROVED', 'RECEIVED', 'REJECTED', 'REFUNDED')), requested_at TEXT NOT NULL DEFAULT (datetime('now')), received_at TEXT, refund_amount REAL NOT NULL DEFAULT 0 CHECK (refund_amount >= 0), FOREIGN KEY (order_id) REFERENCES orders(order_id) ON DELETE CASCADE, FOREIGN KEY (order_item_id) REFERENCES order_items(order_item_id) ON DELETE SET NULL)
return_id	INTEGER	"return_id" INTEGER
order_id	INTEGER	"order_id" INTEGER NOT NULL
order_item_id	INTEGER	"order_item_id" INTEGER
reason	TEXT	"reason" TEXT NOT NULL
status	TEXT	"status" TEXT NOT NULL CHECK("status" IN ('REQUESTED', 'APPROVED', 'RECEIVED', 'REJECTED', 'REFUNDED'))
requested_at	TEXT	"requested_at" TEXT NOT NULL DEFAULT (datetime('now'))
received_at	TEXT	"received_at" TEXT
refund_amount	REAL	"refund_amount" REAL NOT NULL DEFAULT 0 CHECK("refund_amount" >= 0)
shipments		CREATE TABLE shipments (shipment_id INTEGER PRIMARY KEY, order_id INTEGER NOT NULL, warehouse_id INTEGER NOT NULL, partner_id INTEGER NOT NULL, tracking_no TEXT UNIQUE, status TEXT NOT NULL CHECK (status IN ('READY', 'IN_TRANSIT', 'DELIVERED', 'DELAYED', 'LOST', 'RETURNED')), shipped_at TEXT, delivered_at TEXT, slot_id INTEGER, FOREIGN KEY (order_id) REFERENCES orders(order_id) ON DELETE CASCADE, FOREIGN KEY (warehouse_id) REFERENCES warehouses(warehouse_id), FOREIGN KEY (partner_id) REFERENCES delivery_partners(partner_id), FOREIGN KEY (slot_id) REFERENCES delivery_slots(slot_id))
shipment_id	INTEGER	"shipment_id" INTEGER
order_id	INTEGER	"order_id" INTEGER NOT NULL
warehouse_id	INTEGER	"warehouse_id" INTEGER NOT NULL
partner_id	INTEGER	"partner_id" INTEGER NOT NULL
tracking_no	TEXT	"tracking_no" TEXT UNIQUE
status	TEXT	"status" TEXT NOT NULL CHECK("status" IN ('READY', 'IN_TRANSIT', 'DELIVERED', 'DELAYED', 'LOST', 'RETURNED'))
shipped_at	TEXT	"shipped_at" TEXT

Name	Type	Schema
delivered_at	TEXT	"delivered_at" TEXT
slot_id	INTEGER	"slot_id" INTEGER
vendor_product_listings		CREATE TABLE vendor_product_listings (listing_id INTEGER PRIMARY KEY, vendor_id INTEGER NOT NULL, product_id INTEGER NOT NULL, variant_id INTEGER, -- NULL = base product vendor_sku TEXT NOT NULL, price REAL NOT NULL CHECK (price >= 0), active INTEGER NOT NULL DEFAULT 1 CHECK (active IN (0,1)), UNIQUE (vendor_id, vendor_sku), FOREIGN KEY (vendor_id) REFERENCES vendors(vendor_id), FOREIGN KEY (product_id) REFERENCES products(product_id), FOREIGN KEY (variant_id) REFERENCES product_variants(variant_id))
listing_id	INTEGER	"listing_id" INTEGER
vendor_id	INTEGER	"vendor_id" INTEGER NOT NULL
product_id	INTEGER	"product_id" INTEGER NOT NULL
variant_id	INTEGER	"variant_id" INTEGER
vendor_sku	TEXT	"vendor_sku" TEXT NOT NULL
price	REAL	"price" REAL NOT NULL CHECK("price" >= 0)
active	INTEGER	"active" INTEGER NOT NULL DEFAULT 1 CHECK("active" IN (0, 1))
vendor_types		CREATE TABLE vendor_types (vendor_type_id INTEGER PRIMARY KEY, name TEXT NOT NULL UNIQUE -- e.g., "Brand", "Reseller", "3PL")
vendor_type_id	INTEGER	"vendor_type_id" INTEGER
name	TEXT	"name" TEXT NOT NULL UNIQUE
vendors		CREATE TABLE vendors (vendor_id INTEGER PRIMARY KEY, vendor_type_id INTEGER NOT NULL, name TEXT NOT NULL UNIQUE, contact_email TEXT, contact_phone TEXT, commission_rate REAL NOT NULL DEFAULT 0.10 CHECK (commission_rate BETWEEN 0 AND 0.5), -- platform fee active INTEGER NOT NULL DEFAULT 1 CHECK (active IN (0,1)), created_at TEXT NOT NULL DEFAULT (datetime('now')), FOREIGN KEY (vendor_type_id) REFERENCES vendor_types(vendor_type_id))
vendor_id	INTEGER	"vendor_id" INTEGER
vendor_type_id	INTEGER	"vendor_type_id" INTEGER NOT NULL
name	TEXT	"name" TEXT NOT NULL UNIQUE
contact_email	TEXT	"contact_email" TEXT
contact_phone	TEXT	"contact_phone" TEXT
commission_rate	REAL	"commission_rate" REAL NOT NULL DEFAULT 0.10 CHECK("commission_rate" BETWEEN 0 AND 0.5)
active	INTEGER	"active" INTEGER NOT NULL DEFAULT 1 CHECK("active" IN (0, 1))
created_at	TEXT	"created_at" TEXT NOT NULL DEFAULT (datetime('now'))
warehouses		CREATE TABLE warehouses (warehouse_id INTEGER PRIMARY KEY, name TEXT NOT NULL, city TEXT NOT NULL, province TEXT NOT NULL)
warehouse_id	INTEGER	"warehouse_id" INTEGER
name	TEXT	"name" TEXT NOT NULL
city	TEXT	"city" TEXT NOT NULL
province	TEXT	"province" TEXT NOT NULL

Indices (12)

Name	Type	Schema
idx_addresses_customer		CREATE INDEX idx_addresses_customer ON addresses(customer_id)

Name	Type	Schema
customer_id		"customer_id"
idx_customers_email		CREATE INDEX idx_customers_email ON customers(email)
email		"email"
idx_inv_product		CREATE INDEX idx_inv_product ON product_inventory(product_id)
product_id		"product_id"
idx_listings_product		CREATE INDEX idx_listings_product ON vendor_product_listings(product_id)
product_id		"product_id"
idx_listings_vendor		CREATE INDEX idx_listings_vendor ON vendor_product_listings(vendor_id)
vendor_id		"vendor_id"
idx_order_items_order		CREATE INDEX idx_order_items_order ON order_items(order_id)
order_id		"order_id"
idx_orders_customer		CREATE INDEX idx_orders_customer ON orders(customer_id)
customer_id		"customer_id"
idx_orders_status		CREATE INDEX idx_orders_status ON orders(status)
status		"status"
idx_products_category		CREATE INDEX idx_products_category ON products(category_id)
category_id		"category_id"
idx_shipments_status		CREATE INDEX idx_shipments_status ON shipments(status)
status		"status"
idx_variants_product		CREATE INDEX idx_variants_product ON product_variants(product_id)
product_id		"product_id"
idx_vendors_type		CREATE INDEX idx_vendors_type ON vendors(vendor_type_id)
vendor_type_id		"vendor_type_id"

Views (0)

Name	Type	Schema
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Triggers (0)

Name	Type	Schema
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