

Online Shopping Database

Here is a basic MySQL schema for an online shopping database. This will include tables for customers, products, categories ,orders and order items:

Online Shopping Database project idea :

The Online Shopping System is designed to simplify and automate the process of online purchases for customers and management of products, orders, and categories for store owners. It enables customers to browse products, place orders, and track their purchases, while store administrators can manage product inventories, update stock levels, and handle orders efficiently.

Customer (customer_id,name, address, email, phone)

Product (product_id,name, description, price, quantity_in_stock, category_id)

Category (Category_id, name)

Order (order_id,order_date, total_amount, shipping_address, customer_id)

Order_Item (order_Item_id, product_id, quantity, price)

The ERD would depict the following relationships:

Summary of Relationships:

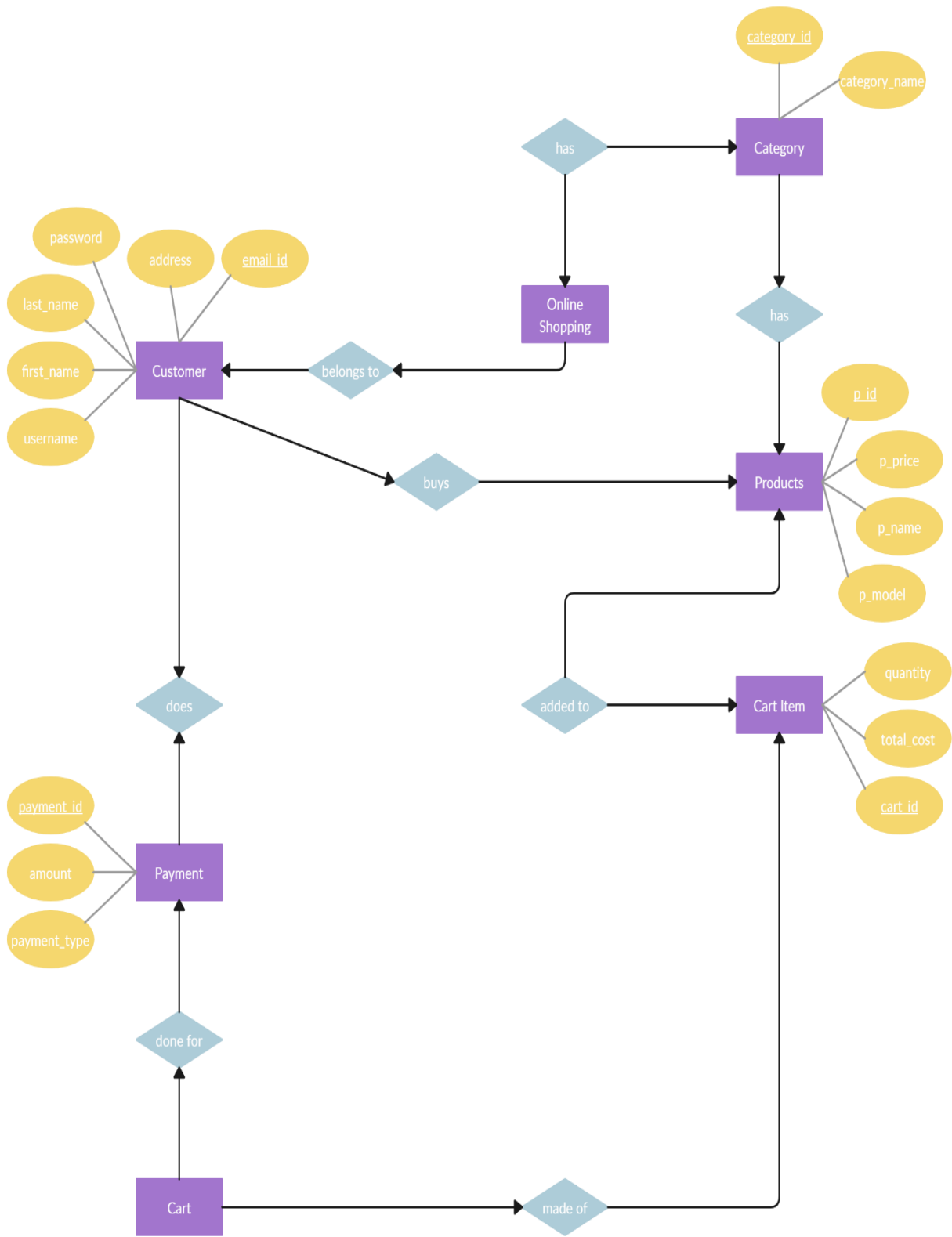
Customer has a one-to-many relationship with Order.

Category has a one-to-many relationship with Product.

Order has a one-to-many relationship with Order_Item.

Product has a one-to-many relationship with Order_Item.

ERD design with all steps:



Tables and Schema diagram

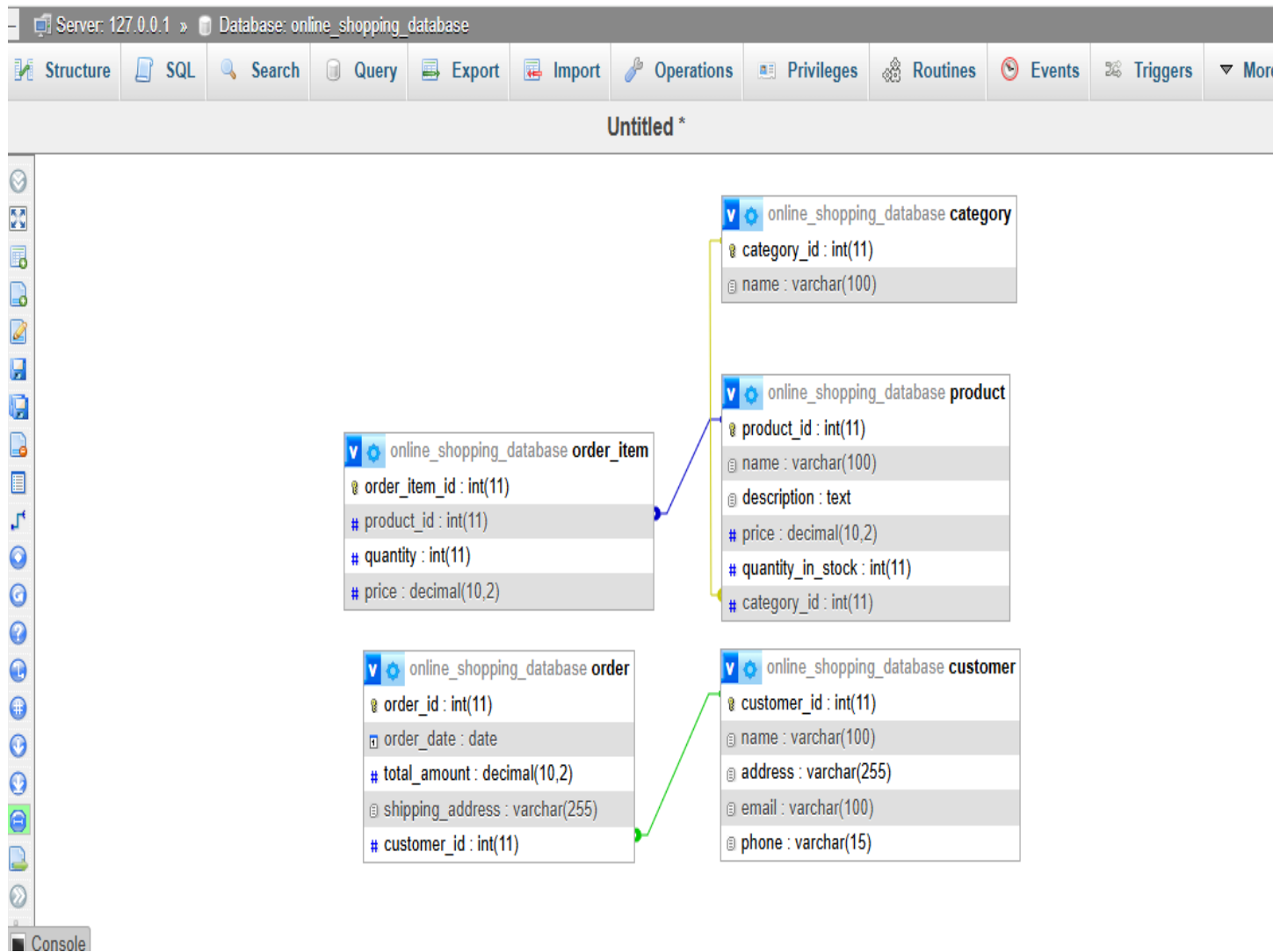


Table Relationships-

Customer to Order:

Relationship: One-to-Many

Description: A customer can have multiple orders, but each order is placed by only one customer.

Foreign Key: customer_id in the Order table references customer_id in the Customer table.

Category to Product:

Relationship: One-to-Many

Description: A category can contain multiple products, but each product belongs to only one category.

Foreign Key: category_id in the Product table references category_id in the Category table.

Order to Order_Item:

Relationship: One-to-Many

Description: An order can contain multiple order items, but each order item belongs to only one order.

Foreign Key: order_id in the Order_Item table references order_id in the Order table.

Product to Order_Item:

Relationship: One-to-Many

Description: A product can appear in multiple order items, but each order item refers to only one product.

Foreign Key: product_id in the Order_Item table references product_id in the Product table.

.....THE END.....