PROJECT 2: DESIGN AN ECOMMERCE WEBSITE DATABASE

Designing a Database for Shopee/Tokopedia/AliExpress

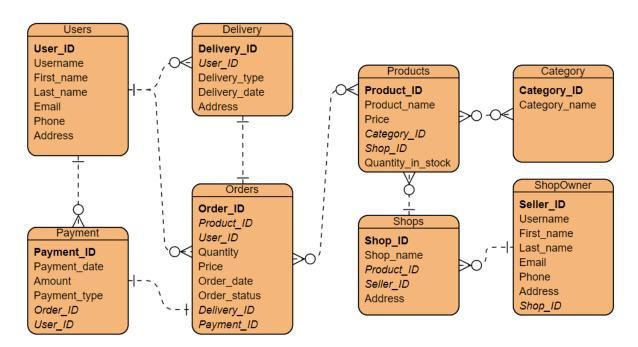
- Imagine you work in a database management team of an eComm platform
- Please design a database for the platform
- Draw an ERD Diagram for your design
- Implement the Database in SQLite and create all the tables
- Your design should at least include Users, Products, Shops, ShopOwners, Orders tables

1. Tables to be included in Database

Table Name	Column Name (PK / FK)
Users	User_ID (PK)
	Username
	First_name
	Last_name
	Email
	Phone
	Address
	Product_ID (PK)
	Product_name
Decided:	Price
Products	Category_ID (FK)
	Shop_ID (FK)
	Qty_in_stock
	Shop_ID (PK)
	Shop_name
Shops	Product_ID (FK)
	Seller_ID (FK)
	Address
	Seller_ID (PK)
	Username
	First_name
	Last_name
ShopOwner	Email
	Phone
	Address
	Shop_ID (FK)
	ID (PK)
Orders	Product_ID (FK)
	User_ID (FK)
	Price
	Quantity

Table Name	Column Name (PK / FK)
	Order_date
	Order_status
	Delivery_ID (FK)
	Payment_ID (FK)
Payment	Payment_ID (PK)
	Payment_date
	Amount
	Payment_type
	Order_ID (FK)
	User_ID (FK)
Delivery	Delivery_ID (PK)
	User_ID (FK)
	Delivery_type
	Delivery_date
	Address
Category	Category_ID (PK)
	Category_name

2. ERD Diagram



3. Creating tables in SQL Lite

Table	Code
Users	CREATE TABLE "Users" ("User_ID" INTEGER, "Username" TEXT, "First_name" TEXT, "Last_name" TEXT, "Email" TEXT, "Phone" TEXT, "Address" TEXT, PRIMARY KEY("User_ID"));
Products	CREATE TABLE "Products" ("Product_ID" INTEGER, "Product_name" TEXT, "Price" INTEGER, "Category_ID" INTEGER, "Shop_ID" INTEGER, "Quantity_in_stock" NUMERIC, FOREIGN KEY("Category_ID") REFERENCES "Category"("Category_ID"), FOREIGN KEY("Shop_ID") REFERENCES "Shops"("Shop_ID"), PRIMARY KEY("Product_ID"));
Shops	CREATE TABLE "Shops" (
ShopOwner	CREATE TABLE "ShopOwner" ("Seller_ID" INTEGER, "Username" TEXT, "First_name" TEXT, "Last_name" TEXT, "Email" TEXT, "Phone" TEXT, "Address" TEXT, "Shop_ID" INTEGER, FOREIGN KEY("Shop_ID") REFERENCES "Shops"("Shop_ID"), PRIMARY KEY("Seller_ID"));

Table	Code
Tubic	CREATE TABLE "Orders" (
	"Order_ID" INTEGER,
	"Product ID" INTEGER,
	"User ID" INTEGER,
	"Quantity" NUMERIC,
	"Price" INTEGER,
	"Order_date" TEXT,
Orders	"Order_status" TEXT,
	"Delivery_ID" INTEGER,
	"Payment_ID" INTEGER,
	FOREIGN KEY("Product_ID") REFERENCES "Products"("Product_ID"),
	FOREIGN KEY("Delivery_ID") REFERENCES "Delivery"("Delivery_ID"),
	FOREIGN KEY("User_ID") REFERENCES "Users"("User_ID"),
	FOREIGN KEY("Payment_ID") REFERENCES
	"Payment"("Payment_ID"),
	PRIMARY KEY("Order_ID")
);
	CREATE TABLE "Payment" (
	"Payment_ID" INTEGER,
	"Payment_Date" TEXT, "Amount" INTEGER,
	"Payment_type" TEXT,
Payment	"Order ID" INTEGER,
i dyment	"User ID" INTEGER,
	FOREIGN KEY("Order_ID") REFERENCES "Orders"("Order_ID"),
	FOREIGN KEY("User_ID") REFERENCES "Users"("User_ID"),
	PRIMARY KEY("Payment ID")
);
	CREATE TABLE "Delivery" (
	"Delivery_ID" INTEGER,
	"User_ID" INTEGER,
	"Delivery_type"TEXT,
Delivery	"Delivery_date"TEXT,
	"Address" TEXT,
	FOREIGN KEY("User_ID") REFERENCES "Users"("User_ID"),
	PRIMARY KEY("Delivery_ID")
);
Category	CREATE TABLE "Category" (
	"Category_ID" INTEGER,
	"Category_name" INTEGER,
	PRIMARY KEY("Category_ID")
);