ECOMMERCE DATA MODELLING

• USERS TABLE

Attribute Name	Data Type	Length	Key Type	Description
userld	INT	-	Primary Key	Unique Identifier for each User
name	VARCHAR	100	-	Name of User
phone	CHAR	10	-	Phone Number
role	ENUM	-	-	Role of User 'Customer' 'Admin'

• PRODUCTS TABLE

Attribute Name	Data Type	Length	Key Type	Description
productld	INT	-	Primary Key	Unique Identifier for each Product
productName	VARCHAR	100	-	Name of Product
description	TEXT		-	Description
price	DECIMAL	10,2	-	Cost
quantity	INT	-	-	Available Quantity

• ORDERS TABLE

Attribute Name	Data Type	Length	Key Type	Description
orderld	CHAR	10	Primary Key	10 digit unique key associated for each order
userld	INT	-	Foreign Key	References the userld from USER TABLE
totalPrice	DECIMAL	10,2	-	Combined price of all order
orderStatus	ENUM	-	-	'PENDING' 'DELIVERED' 'CANCELLED'

• ORDERITEMS TABLE

Attribute Name	Data Type	Length	Key Type	Description
id	INT	-	Primary Key	Unique Identifier
orderld	INT	-	Foreign Key	References ORDER TABLE
productId	INT	-	Foreign Key	References PRODUCT TABLE
quantity	INT	-	-	Quantity of item ordered
price	DECIMAL	10,2	-	Price per item
total	DECIMAL	10,2	-	quantity*price

SQL QUERY

--USERS

```
CREATE TABLE users (
userId INT PRIMARY KEY,
name VARCHAR(255) NOT NULL,
phone CHAR(10) NOT NULL,
role ENUM('CUSTOMER', 'ADMIN') NOT NULL,
```

```
);
--PRODUCTS
CREATE TABLE products (
      productId INT PRIMARY KEY,
      name VARCHAR(255) NOT NULL,
      description TEXT,
      price DECIMAL(10,2) NOT NULL,
      quantity INT NOT NULL DEFAULT 0,
);
--ORDERS
CREATE TABLE orders (
      orderld CHAR(10) PRIMARY KEY,
      userld INT NOT NULL,
      totalPrice DECIMAL(10,2) NOT NULL DEFAULT 0.00,
      status ENUM('PENDING', 'DELIVERED', 'CANCELLED') NOT NULL DEFAULT
'PENDING',
      FOREIGN KEY (userId) REFERENCES users(userId)
);
--ORDER ITEMS
CREATE TABLE orderItems (
      id INT PRIMARY KEY,
      orderld INT NOT NULL,
      productId INT NOT NULL,
      quantity INT NOT NULL,
      price DECIMAL(10,2) NOT NULL,
      total DECIMAL(10,2) GENERATED ALWAYS AS (quantity * price),
      FOREIGN KEY (orderld) REFERENCES orders(orderld),
      FOREIGN KEY (productId) REFERENCES products(productId)
);
-- INSERT in USERS
INSERT INTO users (userld, name, phone, role)
VALUES (1, 'Yameen', '6362923206', 'CUSTOMER');
-- INSERT in PRODUCTS
INSERT INTO products (productId, name, description, price, quantity)
VALUES ('1', 'FEVICOL', 'glue stick', 20.00, 100);
```

--INSERT in ORDERS

INSERT INTO orders (orderld, userld, totalPrice, status) VALUES (ABC0000001, 1, 60.00, 'PENDING');

--INSERT in ORDERITEMS

INSERT INTO order_items (id, orderId, productId, quantity, price) VALUES (1, ABC0000001, 1, 3, 60.0);