# **Report On Database Setup** & Schema Design \*Project Title:\* Shopease Database Design \*Domain:\* E-Commerce \* Submitted By:\* Shalini T

# DATABASE SETUP AND SCHEMA DESIGN

## 1. Introduction

This report provides the design and implementation of a database for Myntra, an e-commerce platform. The database includes essential entities such as User, Orders, OrderItem, and Product to handle customer data, order management, and product catalog. The project demonstrates how to create a well-structured schema, define relationships, and execute SQL commands.

# 2. Objective

The main objective of this task is to design and implement a relational database for Myntra that efficiently manages users, products, and orders while maintaining data integrity and reducing redundancy.

# 3. Tools Used

- MySQL Workbench For database design and query execution
- · GitHub For submission and version control
- SQL For database creation and management

# 4. Database Design

#### 4.1 Entities

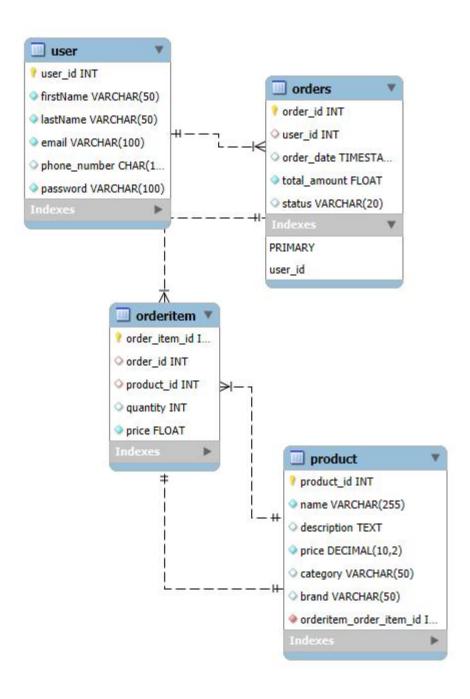
The following entities are included in the Myntra database:

- 1. User Stores user account information such as name, email, and address.
- 2. Product- Contains details about products available on the platform.
- 3. Orders Records information about customer orders.
- 4. OrderItem Stores individual items within an order, linking products to specific orders.

## 4.2 Relationships

- A User can place multiple \*Orders\*(One-to-Many).
- An Order can contain multiple \*OrderItems\* (One-to-Many).
- Each OrderItem is linked to a single \*Product\* (Many-to-One).

# 5. ER Diagram



# 6. SQL Script

```
CREATE TABLE User (
 user_id INT PRIMARY KEY,
 firstName VARCHAR(50) NOT NULL,
 lastName VARCHAR(50) NOT NULL,
 email VARCHAR(100) NOT NULL UNIQUE,
 phone_number char(15),
 password VARCHAR(100) NOT NULL
);
CREATE TABLE Product (
 product_id INT PRIMARY KEY,
 name VARCHAR(255) NOT NULL,
 description TEXT,
 price DECIMAL(10, 2) NOT NULL,
 category VARCHAR(50),
 brand VARCHAR(50)
);
CREATE TABLE Orders (
 order_id INT PRIMARY KEY,
 user_id INT,
 order_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
 total_amount FLOAT NOT NULL,
```

```
status VARCHAR(20),

FOREIGN KEY (user_id) REFERENCES User(user_id)

);

CREATE TABLE OrderItem (

order_item_id INT PRIMARY KEY,

order_id INT,

product_id INT,

quantity INT,

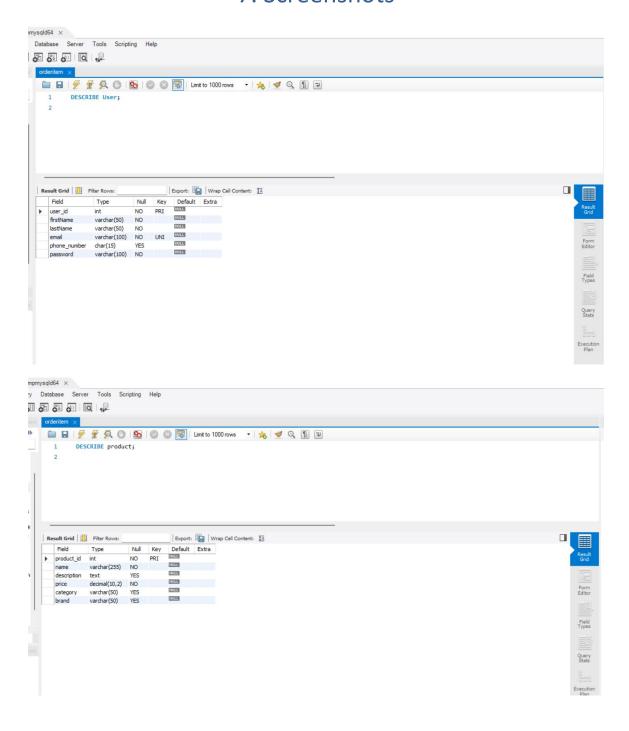
price FLOAT NOT NULL,

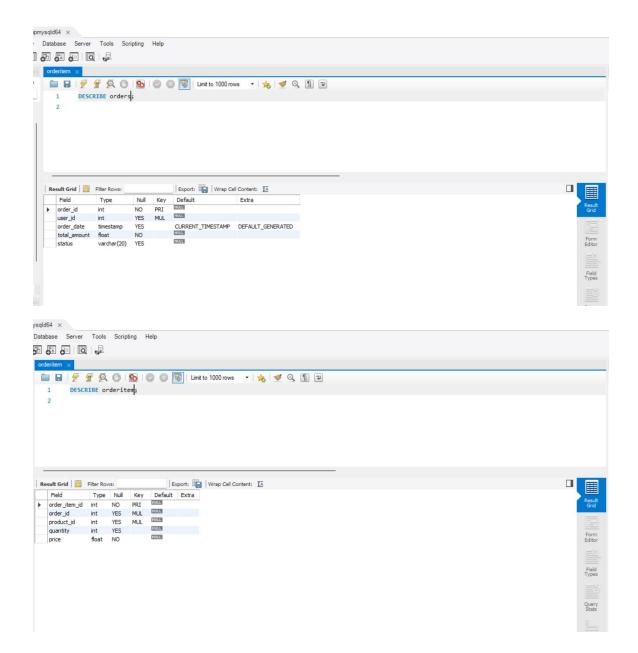
FOREIGN KEY (order_id) REFERENCES Orders(order_id),

FOREIGN KEY (product_id) REFERENCES Product(product_id)

);
```

# 7. Screenshots





# 8. Conclusion

This project provided practical experience in designing and implementing a relational database. It demonstrated how to use primary keys, foreign keys, and relationships to create a normalized structure.