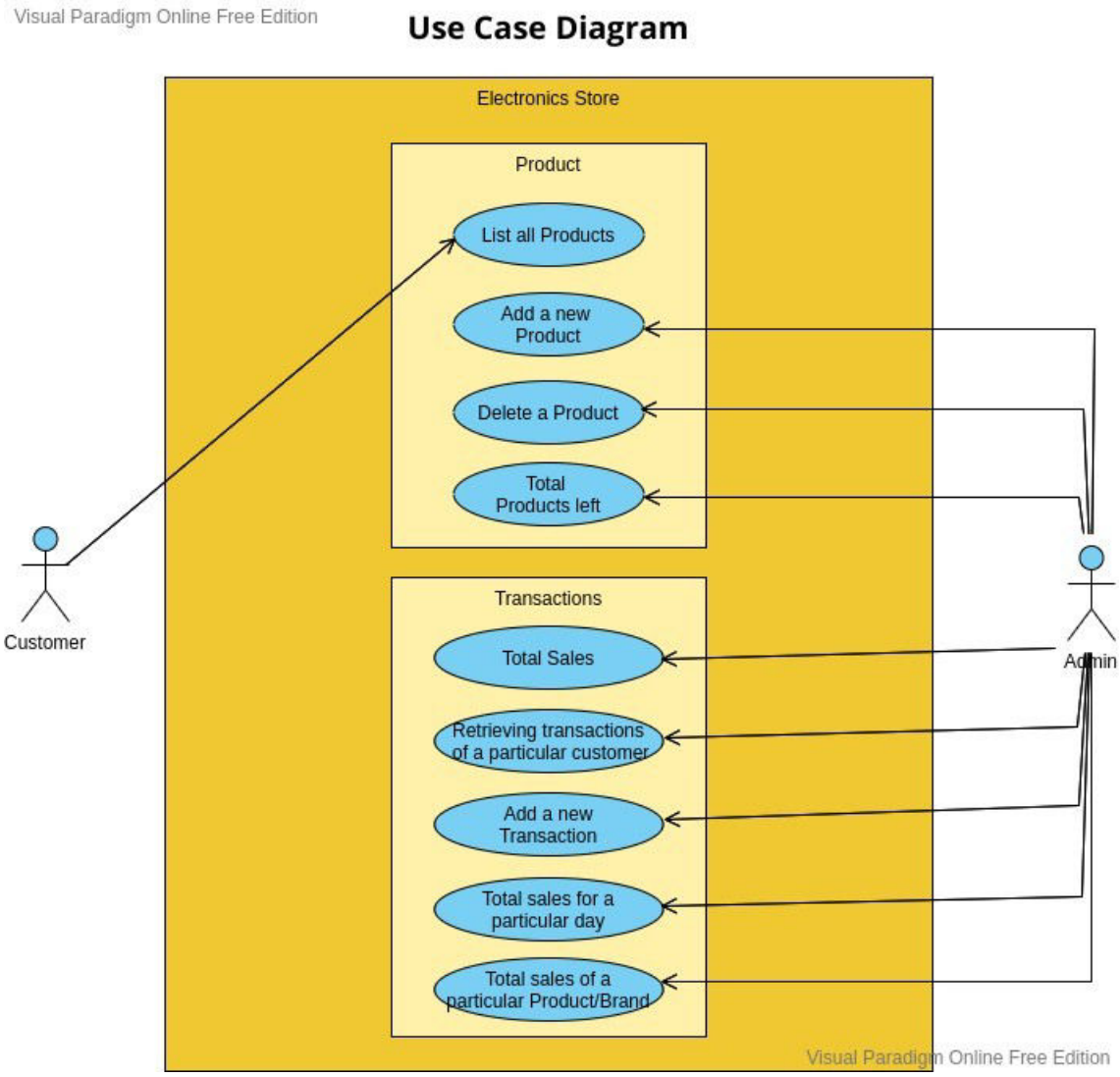
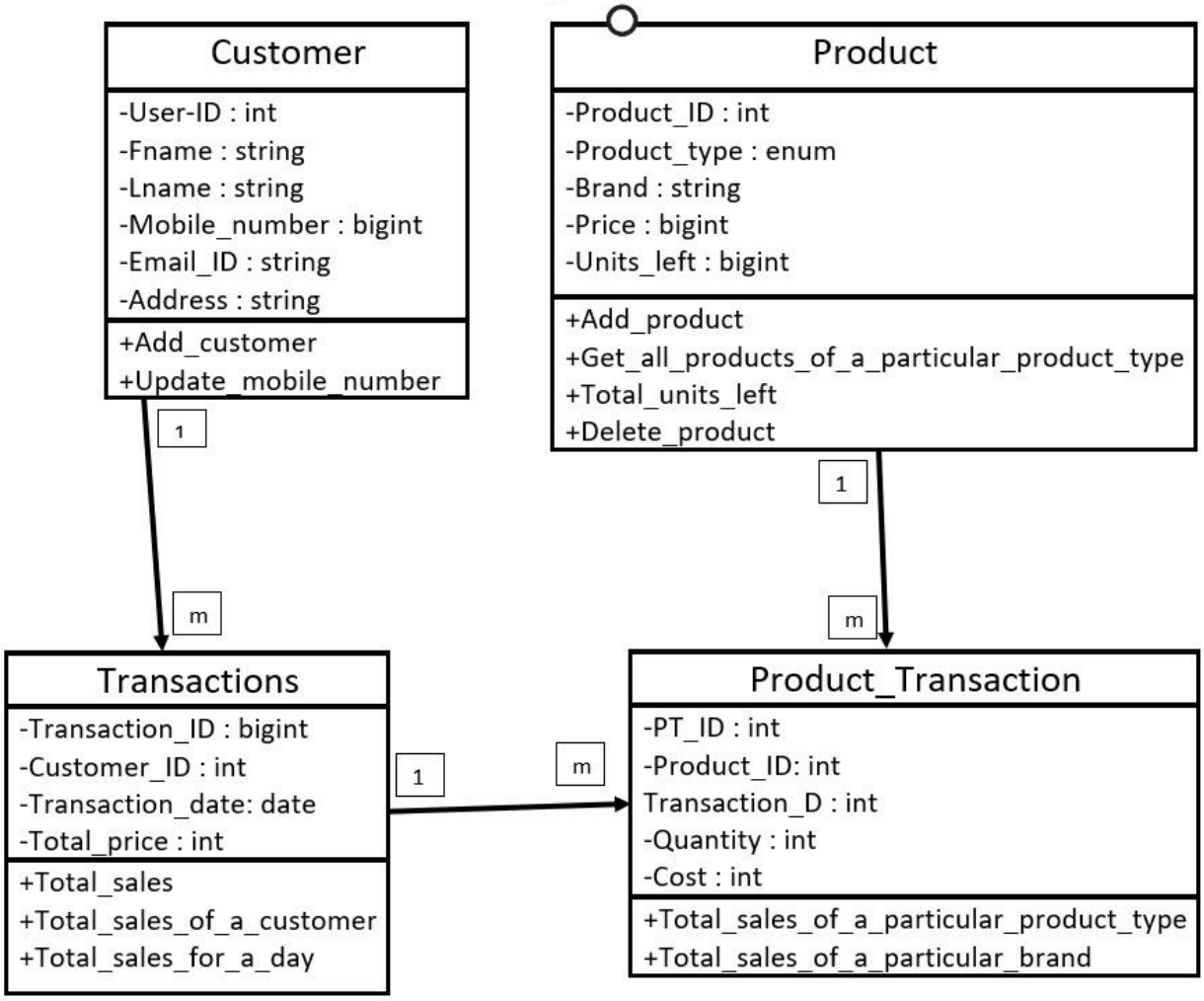
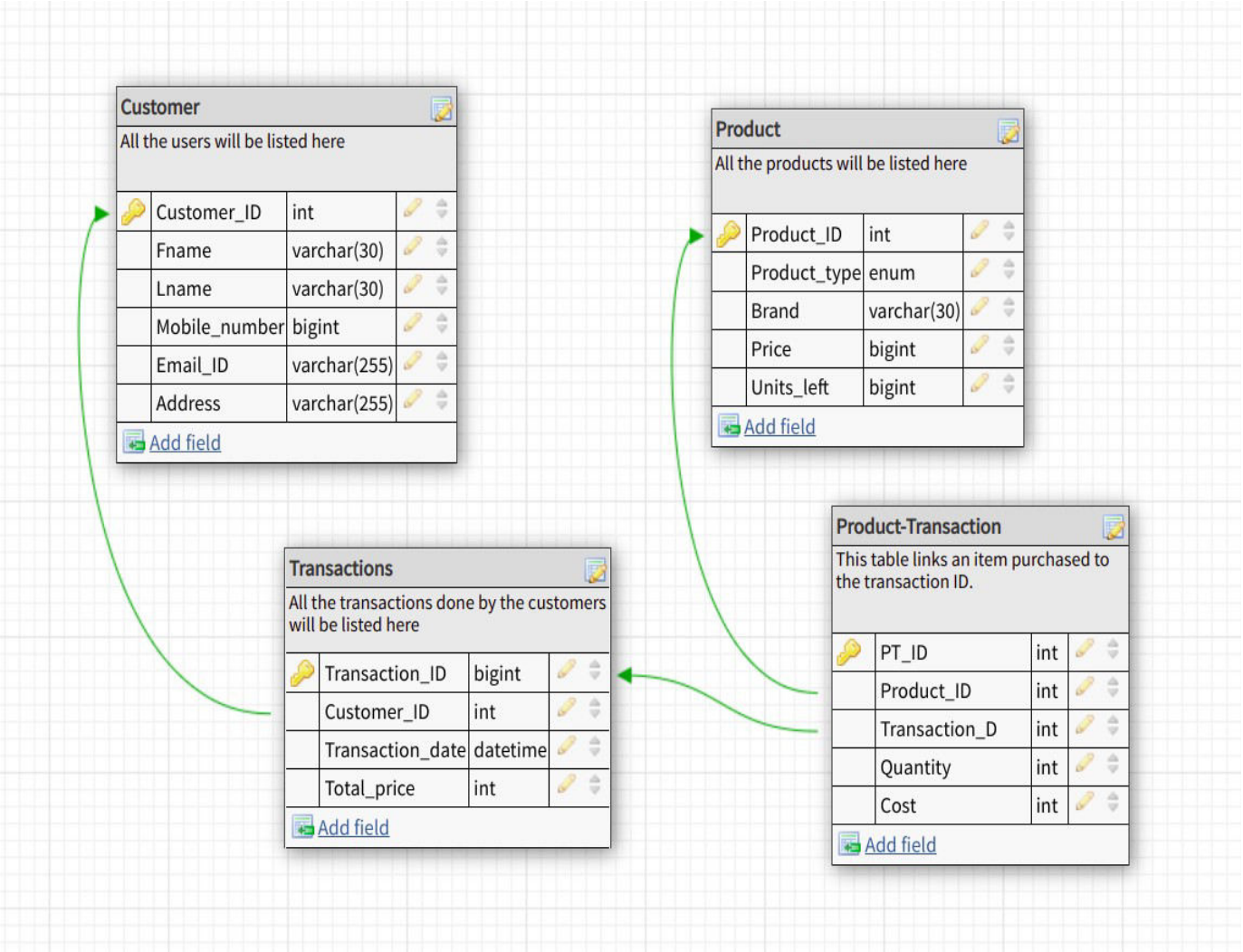
Electronics Store



UML-Class Diagram



OR-Mapping



Instructions to Run

- For creating and populating the database, open the mysql command prompt:
    - For creating the database, run `source Create_database.sql` command
    - For altering the database, run `source Alter_database.sql` command
    - For populating the database, run `source Insert_database.sql` command

-Now, for strating the menu driven program, open terminal:
    - Run `javac Electronics_store.java` command for compiling the program
    - Run `java Electronics_store` command for strating the menu driven program

- A user has two choices, either to login as a Customer or as an Admin.
- Corresponding to both the choices, there are several functionalities, depicted by the menu-driven program.

Output ScreenShots

1.) Customer Menu

Customer can get the list of all the Brands of the product type they have entered and also it's pricing.

```
Login as:
1. Admin
2. Customer
0. Exit

2
1. Get all the products of a particular Product type
0. Exit

1
Enter the Product type from the following:
smartphone
television
AC
Refrigerator

smartphone
Product type: smartphone, Brand: Apple, Price: 120000
Product type: smartphone, Brand: Samsung, Price: 65000
```

2.) Admin/Owner Menu

Admin can perform the folllowing operations (Every operation's screenshot attached)

```
Login as:
1. Admin
2. Customer
0. Exit
1

0. Quit
1. Insert new data
2. Total products left
3. Get total sales
4. Getting all the transactions of a particular customer
5. Total sales for a day
6. Getting total quantity and sales of a particular Product_type, grouped by the Brand
7. Getting total quantity and sales of a particular Brand, grouped by the Product_type
8. Update the mobile number of a Customer
9. Delete a Product
```

3.) Adding a new Customer

```
Login as:
1. Admin
2. Cutsomer
0. Exit
1

0. Quit
1. Insert new data
2. Total products left
3. Get total sales
4. Getting all the transactions of a particular customer
5. Total sales for a day
6. Getting total quantity and sales of a particular Product_type, grouped by the Brand
7. Getting total quantity and sales of a particular Brand, grouped by the Product_type
8. Update the mobile number of a Customer
9. Delete a Product

Enter the Query number: 1
Enetr the number corresponding to the table where new data is to be added
1. Customer
2. Product
3. Transaction
1
Adding a new Customer
First name: Jack
Last name: Sharma
Mobile number: 7364389273
Email ID: Jack.Sharma@gmail.com
City: Bangalore
Customer added successfully!!
```

4.)Adding a new Product

```
Enter the Query number: 1
Enetr the number corresponding to the table where new data is to be added
1. Customer
2. Product
3. Transaction
2
Adding a new Product
Product type: television
Brand: Sony
Price: 55000
Number of units added: 150
Product added successfully!!
```

5.) Adding a new Transaction

```
Enter the Query number: 1
Enetr the number corresponding to the table where new data is to be added
1. Customer
2. Product
3. Transaction
3
Adding a new Transaction
CustomerID: 3
Total price: 55000
Adding the items bought in this transaction
ProductID: 9
Quantity: 1
Cost: 55000
Enter one more product?(Y/N)
n
Transaction added successfully!!
```

6.) Total number of products left and Total sales till date

```
Enter the Query number: 2
Total number of Products left: 785

Enter the Query number: 3
Total sales(in Rupees): 496989
```

7.) Getting all the transactions made by a particular Customer

```
Enter the Query number: 4
Enter the customer's mobile number whose transactions are to be retrieved:

8736491274
Product Type: television, Brand: LG, Quantity: 1, Cost: 20999
Product Type: AC, Brand: Videocon, Quantity: 1, Cost: 20000
```

8.) Total sales generated for any given day

```
Enter the Query number: 5
Enter the date for which the total sales is to be calculated (Format: yyyy-mm-dd):

2022-04-17
Product_type: television, Brand: Sony, Price: 55000
Total sales on 2022-04-17 = 55000
```

9.) Quantity of product sold and sales generated by a particular Product type

```
Enter the Query number: 6
Enter the Product type for which total quantity and sales is to be calculated:
smartphone
television
AC
Refrigerator

smartphone
Brand: Samsung, Quantity: 1, Total Sales: 65000
Brand: Apple, Quantity: 2, Total Sales: 240000

Enter the Query number: 6
Enter the Product type for which total quantity and sales is to be calculated:
smartphone
television
AC
Refrigerator

AC
Brand: Videocon, Quantity: 1, Total Sales: 20000
Brand: Mitsubishi, Quantity: 1, Total Sales: 60000
```

10.) Quantity of product sold and sales generated by a particular Brand

```
Enter the Query number: 7
Enter the Brand for which total quantity and sales are to be calculated:
Apple
Samsung
LG
Mitsubishi
Videocon

Mitsubishi
Product type: AC, Quantity: 1, Total sales: 60000
```

11.) Update a cutsomer's mobile number
Delete a particular Product's record

```
Enter the Query number: 8
Enter the old mobile number: 9483740298
Enter the new mobile number: 7583469487
Mobile number updated successfully!!

Enter the Query number: 9
Enter the ProductID of the Product to be deleted
8
Product record deleted successfully!!
```