IT 300 Project

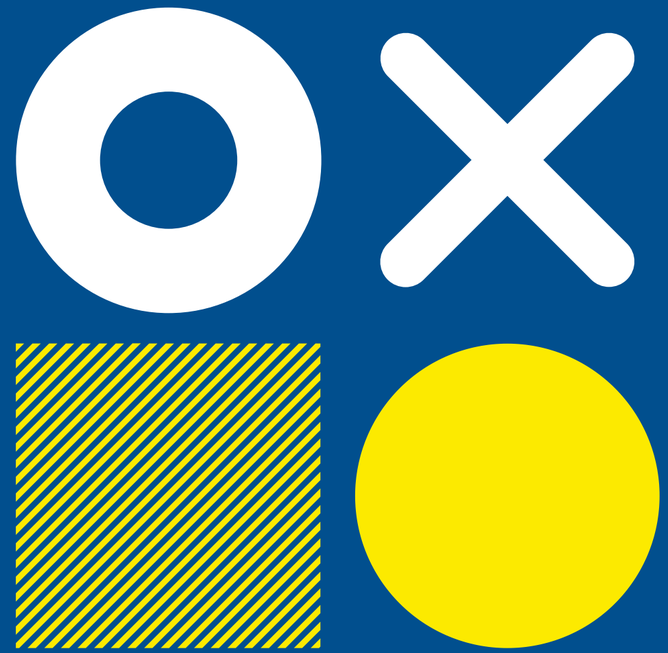
By Sirine AMRI & Mohamed Amine AFFES

Introduction

SHOP'IZ is a matching platform between shops and customers, i.e., it is a virtual marketplace.
The shop can offer its product(s) for sale, and the customer can buy this \ these product(s) if it satisfies his/her needs.

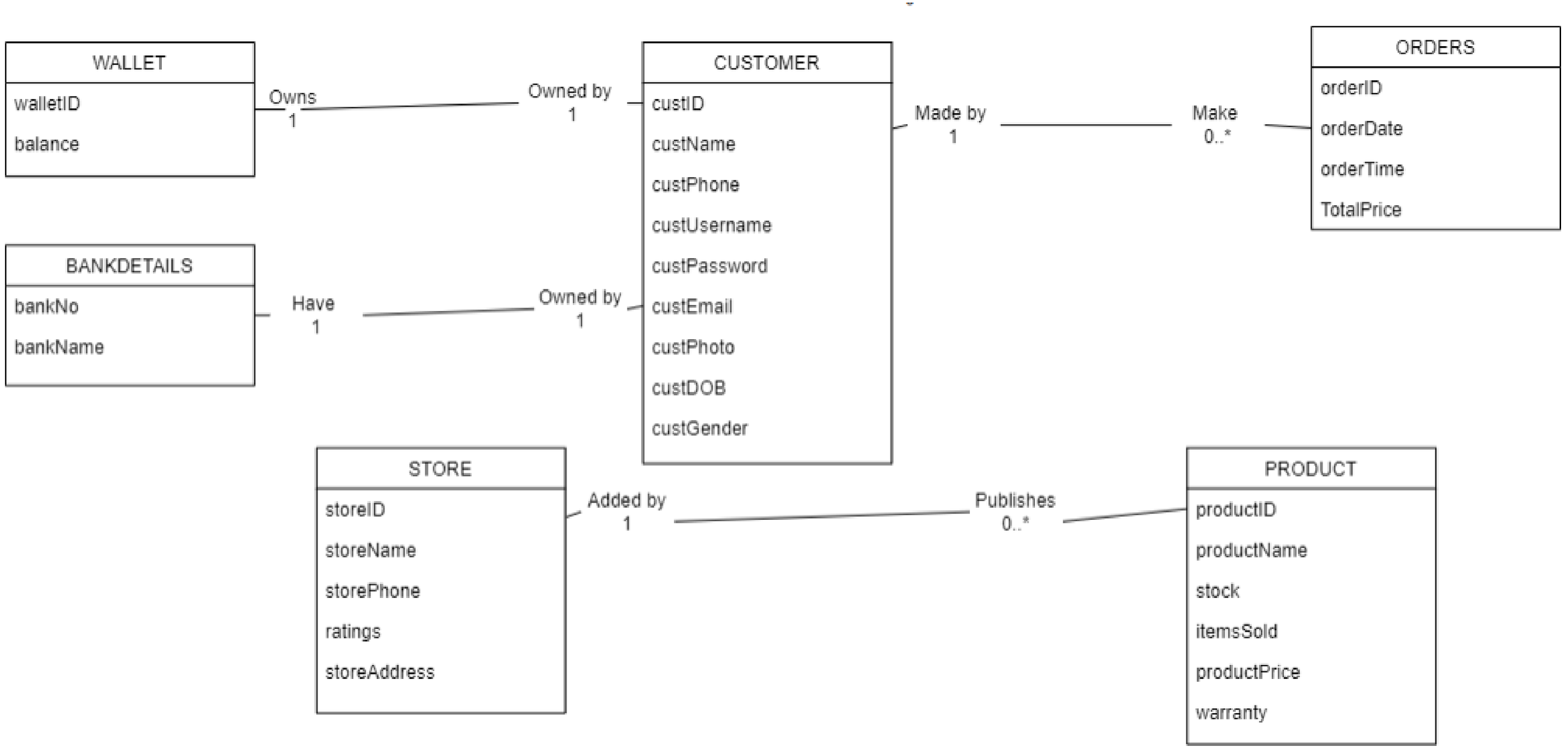
Our project is all about SHOP'IZ's database and SHOP'IZ's database management system.

Introduction (Contin.)



The DBMS will facilitate the management, maintenance, and control of the database.
In a manner that we, the SHOP'IZ staff, will be able to see the clients’ orders, to extract the needed information when desired, and to manage the products' master as well as the customers' master.

Conceptual Schema



The relational schema (1/2)

Draw the tables' relational schema.

Table CUSTOMER

CUSTOMER (custID, custName, custPhone, custUsername, custPassword, custEmail, custPhoto, custDOB, custGender)

Table WALLET

WALLET (walletID, balance, #custID)

Table BANKDETAILS

BANKDETAILS (bankNo, bankName, #custID)

The relational schema (2/2)

Draw the tables' relational schema.

Table STORE

STORE (storeID, storeName, storePhone, ratings, storeAddress)

Table PRODUCT

PRODUCT (productID, productName, stock, itemsSold, productPrice, warranty, #storeID)

Table ORDERS

ORDERS (orderID, orderDate, orderTime, totalPrice, #custID)

DB Interrogation (1/3)

An explanation of the interrogations implemented in the database.

Question 1

Create a named procedure called ‘restock’ that enables the user to update the quantity of a specified product available in stock.

Question 2

Create an named procedure that returns a list of the customers’ names, their banks, and the balances in their wallets. Use the join, and a cursor.

Question 3

Create a trigger called ‘remove_cust’ that fires before a delete query on the table customer. It will delete the customer wallet and bank details after deleting it.

DB Interrogation (2/3)

An explanation of the interrogations implemented in the database.

Question 4

Create a procedure called ‘stocklevel’ to check the stock level of a product for which the identifier is specified by the user. Use switch case, and user defined exceptions.

Question 5

For the occasion of black Friday, some products will be discounted.
Write a stored procedure ‘discount’ to identify the price of a product for which the identifier is introduced as a parameter by the user.
-If the discount rate entered by the user is not between 0 and 1 then the message “The discount rate you entered is invalid, please retry again” is displayed.
-Otherwise, decrease the price by a rate (t_disc) introduced by the user. The code has to display the value before and after the update.

DB Interrogation (3/3)

An explanation of the interrogations implemented in the database.

Question 6

Create a stored procedure called ‘ rat_store’ that enable a user to enter the desired product identifier and see the store it offers and the store rating.

Question 7

Create a named PL/SQL procedure that enables a user to enter the breakeven sales for a specified product and check if that product is generating losses or gains. If the product is generating losses, it must be deleted from the database.

Question 8

Put all the procedures, and functions in a package called 'DB_Interrogation'.

Conclusion

Problems we had to solve, possible enhancements...

1

Internet

We had some internet connection problems during the preparation of this project, which made it difficult for us to find a good program to draw the class diagram or to upload some materials needed.

2

Toad Free Trial version

The use of the trail version of Toad for Oracle database was exhausting because you need to download a new version using new address monthly, and sometimes it results in some errors that are not clear (you leave a correct code for 2 sec, and when you come back you find it not working)

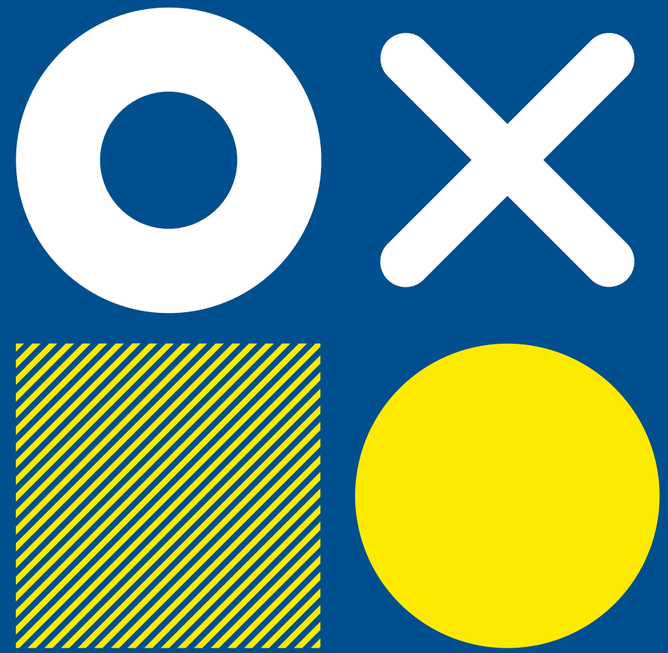
3

Enhancements

We did not observe any possible enhancements that we did not do in our code.

Project Code

You find the project databse code in Database.sql file, the database interrogation code in DB Interrogation.sql file, the reports and graphs are in DB_reports_graphs.pbix file.



For Testing:

Login: PROJECT

Password: project

The Team

Sirine AMRI

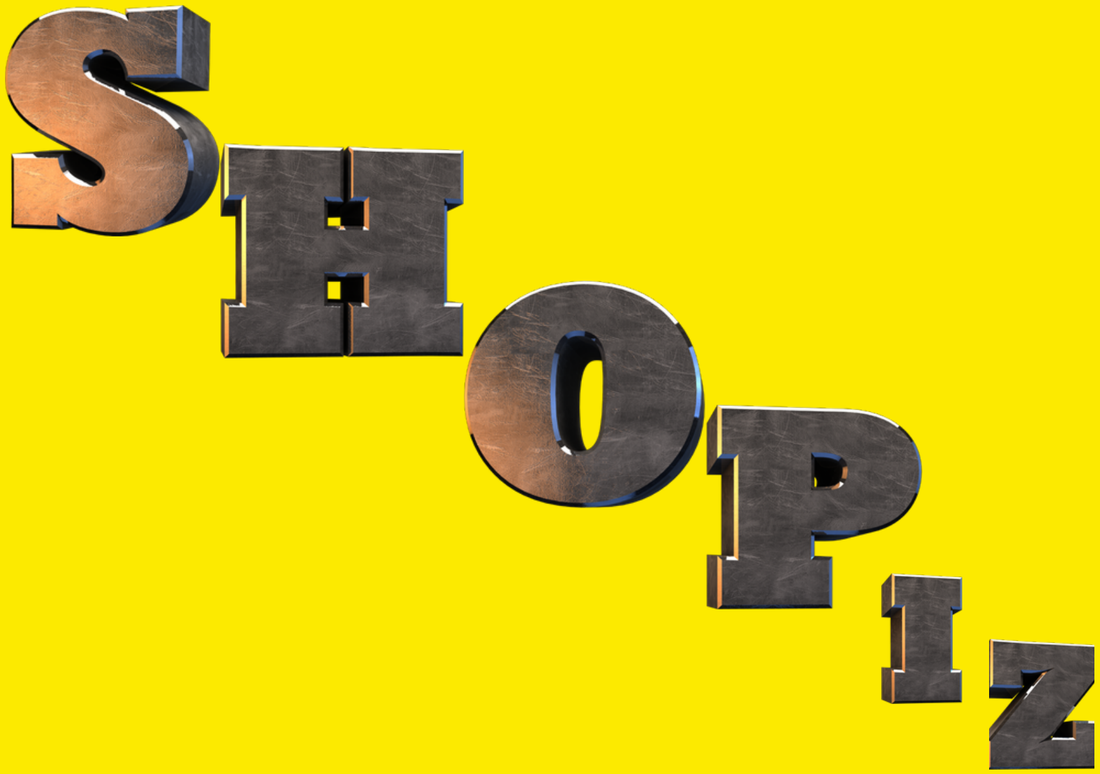
Major: Accounting

Minor: Information Technology

Mohamed Amine AFFES

Major: Business Analytics

Minor: Information Technology



Contact Us

For Further details

Emails:

- cyrin.amri@gmail.com
- amineaffes654@gmail.com