GTU Department of Computer Engineering
CSE414 Databases - Spring 2022
Project Report

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1) Problem Definition

The problem is to make a database management system for the **yemeksepeti** platform.

2) Solution

The project was **finished as expected** in project assignment announcement.
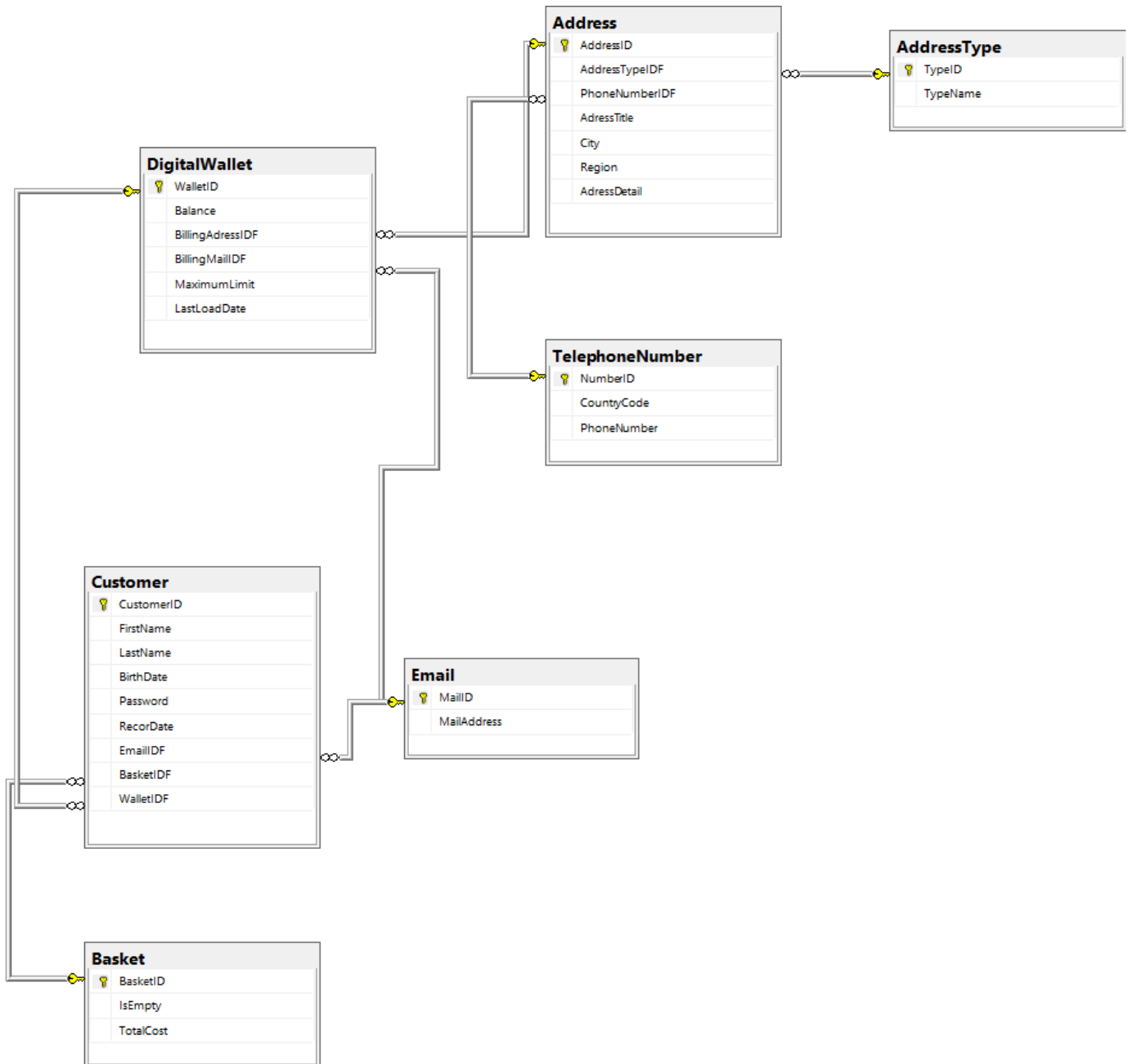
2.1) User Requirements

In this project we 3 users. These are customer, restaurant owner and admin of system.

1. **Customer** shall be able to sign up.
2. **Customer** shall be able to add food to his/her basket.
3. **Customer** shall be able to order food.
4. **Customer** shall be able to see old orders and status of the order.
5. **Customer** shall be able to add new address or edit them.
6. **Customer** shall be able to see all foods and restaurants.
7. **Customer** shall be able to add restaurant in his/her favorites.
8. **Customer** shall be able to load money on the digital wallet.
9. **Customer** shall be able to make review to order.
10. **Customer** shall be able to see and use his/her discount coupons.
11. **Restaurant Owner** shall be able to add new food on his/her menu or edit them.
12. **Restaurant Owner** shall be able to add new payment type for his/her restaurant.
13. **Restaurant Owner** shall be able to change working hours of restaurant.
14. **Restaurant Owner** shall be able to add new campaign for foods.
15. **Admin** shall be able to add new restaurants or edit them.
16. **Admin** shall be able to add new discount coupon to the customers
17. **Admin** shall be able to see all information in the system.

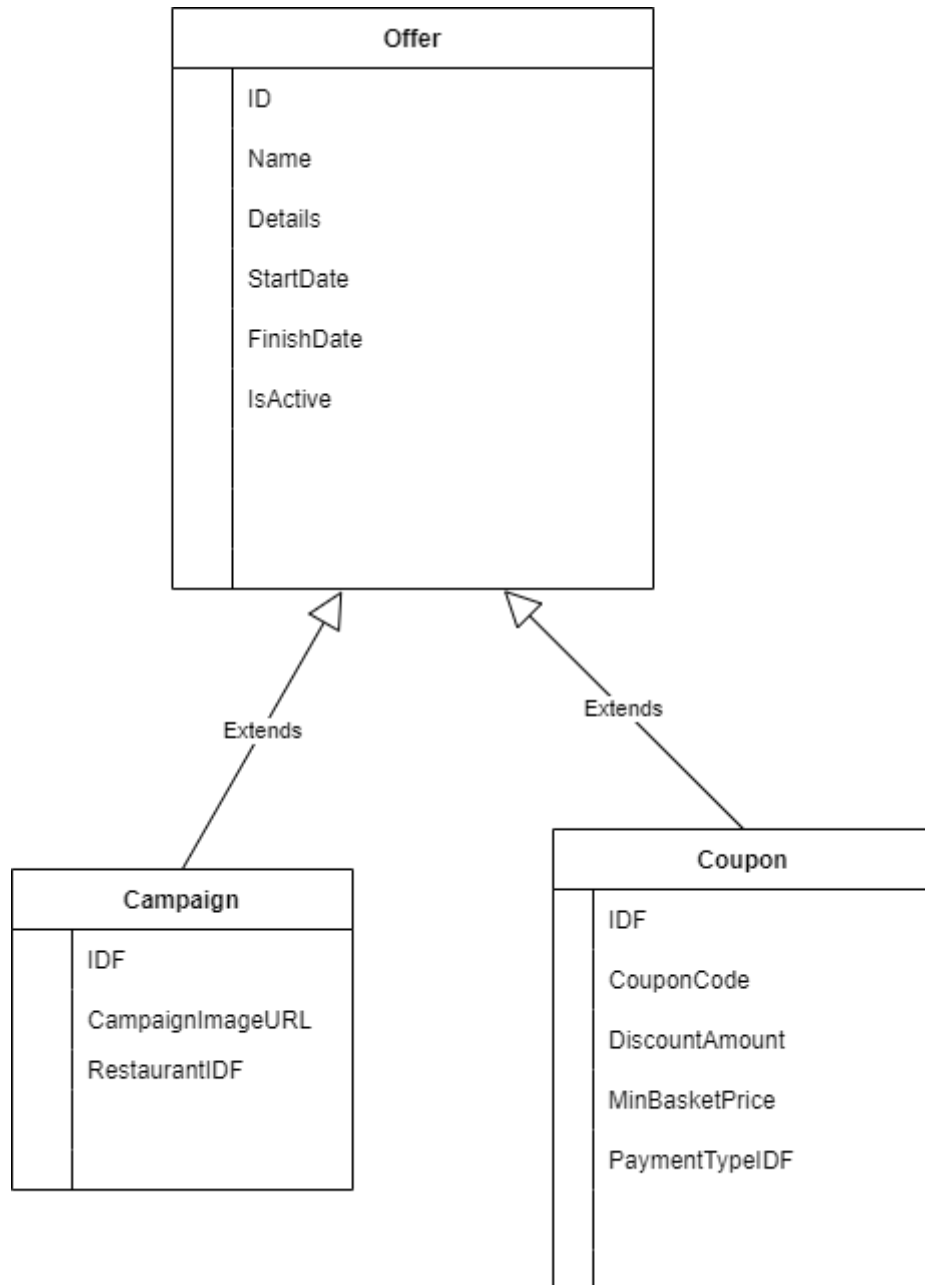## 2.2) Database Tables and Relations

In this project we have **24 table**. These tables are followings.

Customer, Address, AddressType, CustomerAdress, TelephoneNumber, Email, Orders, FavouriteRestaurant, Basket, BasketFood, OrderFood, DigitalWallet, Restaurant, PaymentType PaymentRestaurant, WorkingHours, Food, Category, Review, Campaign, Coupon, CouponCustomer, FoodLog, WalletLog

Address
- AddressID
- AddressTypeIDF
- PhoneNumberIDF
- AdressTitle
- City
- Region
- AdressDetail

AddressType
- TypeID
- TypeName

DigitalWallet
- WalletID
- Balance
- BillingAdressIDF
- BillingMailIDF
- MaximumLimit
- LastLoadDate

TelephoneNumber
- NumberID
- CountryCode
- PhoneNumber

Customer
- CustomerID
- FirstName
- LastName
- BirthDate
- Password
- RecorDate
- EmailIDF
- BasketIDF
- WalletIDF

Email
- MailID
- MailAddress

Basket
- BasketID
- IsEmpty
- TotalCost

2.3) Inheritance(Specialization)

Between Campaign and Coupon tables there is an inheritance because both are related to discount, and they have common attributes. Therefore, they inherited from Offer table.

As you can see Name, Details, StartDate, FinishDate and IsActive attributes are **common** between Campaign and Coupon tables and IDF's are foreign key.

2.4) E-R Diagram