Milestone 1 ERD Schema

- Customer_profile (<u>nationalID: int</u>, first_name: Varchar(50), last_name: Varchar(50), email: Varchar(50), address: Varchar(50), date_of_birth: date)

- Customer_Account (<u>mobileNo: char(11)</u>, pass varchar(50), balance: decimal(10,1), account_type: Varchar(50), start_date date, status: Varchar(50), point: int, <u>nationalID:</u> int)

    - **nationalID in Customer Account is a foreign key from Customer profile referencing nationalID**

- Service_Plan (<u>planID: int</u>, SMS_offered: int, minutes_offered: int, data_offered: int, name: Varchar(50), price int, description: Varchar(50))

- Subscription (<u>mobileNo: char(11), planID: int,</u> subscription_date: date, status: Varchar(50))

    - **Subscription.mobileNo references Customer_Account.mobileNo**
    - **Subscription.planID references Service Plan. planID**

- Plan_Usage (<u>usageID: int</u>, start_date: date, end_date: date, data_consumption: int, minutes_used: int, SMS_sent: int, mobileNo: char(11), planID: int)

    - **Plan_Usage.mobileNo references Customer_Account.mobileNo**
    - **Plan_Usage.planID references Service_Plan.planID**

- Payment (<u>paymentID: int</u>, amount: decimal (10,1), date_of_payment: date, payment_method: Varchar(50), status: Varchar(50), mobileNo: char(11))

    - **Payment.mobileNo references Customer_Account.mobileNo**

- Process_Payment (<u>paymentID: int</u>, planID: int, remaining_balance, extra_amount)

    - **Process_Payment.paymentID references Payment.paymentID**
    - **Process_Payment.planID references Service_Plan.planID**
    - **remaining_balance as Service_Plan.price - Payment.amount if (Payment.amount < Service_Plan.price)**
    - **additional_amounts as Payment.amount- Service_Plan.price if (Payment.amount > Service_Plan.price)**

- Wallet (<u>walletID: int</u>, current_balance: decimal(10,2), currency Varchar(50), last_modified_date: date, nationalID: int, mobileNo: char(11))

- o   **Wallet.nationalID references Customer_profile.nationalID**

- Transfer_money (<u>walletID1: int, walletID2: int, transfer_id: int</u>, amount: decimal (10,2), transfer_date: date)

    - o   **Transfer_money .walletID1 references Wallet.walletID**
    - o   **Transfer_money .walletID2 references Wallet.walletID**

- Benefits (<u>benefitID: int</u>, description: Varchar(50), validity_date: date, status: Varchar(50), mobileNo: char(11))

    - o   **Benefits.mobileNo references Customer_Account.mobileNo**

- Points Group (<u>pointID: int, benefitID: int,</u> pointsAmount: int, PaymentID: int)

    - o   **Points_Group.benefitID references Benefits.benefitID**
    - o   **Points_Group.PaymentID references Payment.PaymentID**

- Exclusive Offer (<u>offerID: int, benefitID: int</u>, internet_offered: int, SMS_offered: int, minutes_offered: int)

    - o   **Exclusive_Offer.benefitID references Benefits.benefitID**

- Cashback (<u>CashbackID: int, benefitID: int,</u> walletID: int, amount: int, credit_date: date)

    - o   **Cashback.benefitID references Benefits.benefitID**
    - o   **Cashback.walletID references Wallet.walletID**

- Plan_Provides_Benefits (<u>benefitID: int, planID: int</u>)

    - o   **Plan_Provides_Benefits.benefitID references Benefits.benefitID**
    - o   **Plan_Provides_Benefits.planID references Service Plan.planID**

- Shop (<u>shopID: int</u>, name: varchar(50), category: varchar(50))
- Physical Shop (<u>shopID: int,</u> address varchar(50), working_hours: varchar(50))

    - o   **Physical_Shop.shopID references Shop.shopID**

- E-shop (<u>shopID: int,</u> URL: varchar(50), rating: int)

    - o   **E-shop.shopID references Shop.shopID**

- Voucher (<u>voucherID: int</u>, value: int, expiry_date: date, points: int, mobileNo: char(11), shopID:int, redeem_date: date)

    - **Voucher.mobileNo references Customer_Account.mobileNo**
    - **Voucher.shopID references Shop.shopID**

- Technical Support Ticket (<u>ticketID: int, mobileNo:</u> char(11), Issue_description: Varchar(50), priority_level int, status: Varchar(50))

    - **Technical_Support_Ticket.mobileNo references Customer_Account.mobileNo**