

Milestone 1 Solution (Schema)

CustomerProfile(ShoppingCardNum, DoB, FirstName, LastName, PhoneNumber, Email, Address)

CustomerAccount(Status, ShoppingCardNum, AccountStartDate, Type, TotalPoints)

CustomerAccount.ShoppingCardNum references CustomerProfile(ShoppingCardNum).

Where CustomerAccount.TotalPoints = calculated CustomerCardPoints

CustomerCardPoints(ID, ShoppingCardNum, Amount)

CustomerCardPoints.ShoppingCardNum references CustomerProfile(ShoppingCardNum).

Promotions(PID, Type, Description, Status, StartDate, EndDate, ShoppingCardNum)

Promotions.ShoppingCardNum references CustomerProfile(ShoppingCardNum).

Employee(EID, HireDate, Salary, Name, Position)

ProductInfo(PID, Name, Brand, Quality, Category, StockQuality, SalePrice)

Supplier(SID, Name, Contact, Address)

ProductSupplier(PID, SID, LeadTime, SupplyPrice)

PaymentInfo(PaymentID, DateOfPayment, Method, Status, ShoppingCardNum, TID)

PaymentInfo.ShoppingCardNum references CustomerProfile(ShoppingCardNum).

Promotions.TID references Transaction(TID).

Transaction(TID, Date, Amount, EmpID, ShoppingCardNum)

Transaction.EmpID references Employee(EID).

Transaction.ShoppingCardNum references CustomerProfile(ShoppingCardNum).

ProductTransaction(TID, PID, Quantity)

Assume Suppliers supply multiple products

Assume Transaction contain multiple products