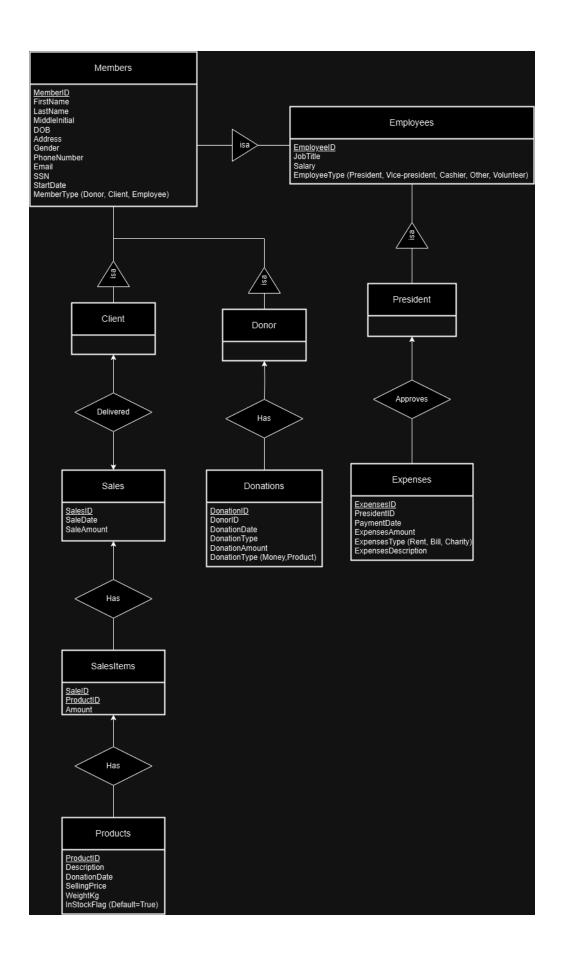
## **COMP 353 Assignment 2**

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## Part 1

a, b)



c)

```
Members{MemberID, FirstName, LastName, MiddleInitial, DOB, Address, Ge
StartDate, MemberType}

Employees{EmployeeID(FK->MemberID), JobTitle, Salary, EmployeeType]

Donations{DonationID, DonorID(FK->MemberID), DonationDate, Donation
Sales{SalesID, SaleDate, SaleAmount}

SalesItems{SalesID(FK->SalesID), ProductID(FK->ProductID), Amount]

Products{ProductID, Description, DonationDate, SellingPrice, Weightle
Expenses{ExpensesID, PresidentID(FK->EmployeeID), PaymentDate, ExpensesDescription}
```

d)

I would ALTER the table to add a non-null VicePresidentID to the table, which would signify the requirement of approval for an Expense.

## Part 2

a)

```
SELECT MemberID AS ClientID,
FirstName,
LastName,
MiddleInitial,
DOB,
Address,
```

```
Gender,
PhoneNum,
Email,
SSN,
MemberType
FROM Members
WHERE MemberType = 'Client'
AND MemberID NOT IN (SELECT EmployeeID
FROM Employees
WHERE Salary = 0)
```

b)

```
SELECT Expenses.ExpensesID,

Members.FirstName,
Members.LastName,
Expenses.PaymentDate,
Expenses.ExpensesAmount,
Expenses.ExpensesType,
Expenses.ExpensesDescription

FROM Expenses

JOIN Employees ON Expenses.PresidentID = Employees.Employenses

JOIN Members ON Employees.EmployeeID = Members.MemberII

WHERE YEAR(Expenses.PaymentDate) = 2024

AND MONTH(Expenses.PaymentDate) BETWEEN 1 AND 6;
```

c)

```
SELECT Sales.SalesID,
Sales.SaleDate,
Members.FirstName,
Members.LastName,
Products.Description,
SalesItems.Amount,
Products.SellingPrice,
Products.WeightKg
```

```
JOIN SalesItems ON Sales.SalesID = SalesItems.SalesID
          JOIN Products ON SalesItems.ProductID = Products.Product
          JOIN Members ON Sales.SalesID = Members.MemberID
 WHERE (Members.Address LIKE '%Brossard%' OR Members.Address LIKI
   AND YEAR(Sales.SaleDate) = 2024
   AND MONTH(Sales.SaleDate) = 6
 ORDER BY Sales.SalesID, Members.FirstName, Members.LastName, Pro
d)
 SELECT MONTH(Sales.SaleDate)
                                AS Month,
        COUNT(SalesItems.ProductID) AS NumberOfProductsSold,
        AVG(Products.SellingPrice) AS AveragePrice,
        AVG(Products.WeightKg) AS AverageWeight
 FROM Sales
          JOIN SalesItems ON Sales.SalesID = SalesItems.SalesID
          JOIN Products ON SalesItems.ProductID = Products.Product
 WHERE YEAR(Sales.SaleDate) = 2023
 GROUP BY MONTH(Sales.SaleDate)
 ORDER BY NumberOfProductsSold DESC;
e)
                                                        AS Client:
 SELECT Members.MemberID
        Members.FirstName,
        Members.LastName,
        Sales.SalesID,
        Sales.SaleDate,
        SUM(SalesItems.Amount * Products.SellingPrice) AS TotalSa
 FROM Members
          LEFT JOIN Sales ON Members.MemberID = Sales.SalesID
          LEFT JOIN SalesItems ON Sales.SalesID = SalesItems.Sale
          LEFT JOIN Products ON SalesItems.ProductID = Products.
 WHERE Members.MemberType = 'Client'
   AND Members.MemberID NOT IN (SELECT Sales.SalesID
```

FROM Sales

## FROM Sales

WHERE Sales.SaleDate >= '2024-01

GROUP BY Members.MemberID, Members.FirstName, Members.LastName,
ORDER BY TotalSales DESC;