Std.name : **AHMED M. S. ALBREEM**

Std.id : **210041258**

COURSE.NO : **CSE4308**

DATE OF SOLUTION : **30-09-2023**

ASSIGNMENT 7 OF DBMS LAB

The Entities of the ER digram :

Branch
Attributes: BranchID (Primary Key), Street, City, Postcode

Employee
Attributes: EmployeeID (Primary Key), FirstName, LastName, Gender, DateOfBirth, Position, Salary, BranchID (Foreign Key)

Client
Attributes: ClientID (Primary Key), FirstName, LastName, TelephoneNumber, Email, AccommodationType, MaxRent, ContactStaffID (Foreign Key)

Owner
Attributes: OwnerID (Primary Key), FirstName, LastName, TelephoneNumber, Email, Password

Property
Attributes: PropertyID (Primary Key), Street, City, Postcode, Type, NumRooms, Rent, OwnerID (Foreign Key), ContactStaffID (Foreign Key), BranchID (Foreign Key)

Visit
Attributes: VisitID (Primary Key), VisitDate, ClientID (Foreign Key), PropertyID (Foreign Key)

Comment
Attributes: CommentID (Primary Key), CommentText, VisitID (Foreign Key)

The basic relations of the Database (based on it i made the code and the ER digram) :

WorksAt
Relationship between Employee and Branch
Cardinality: Many-to-One (Each employee works at one branch, but a branch can have many employees)

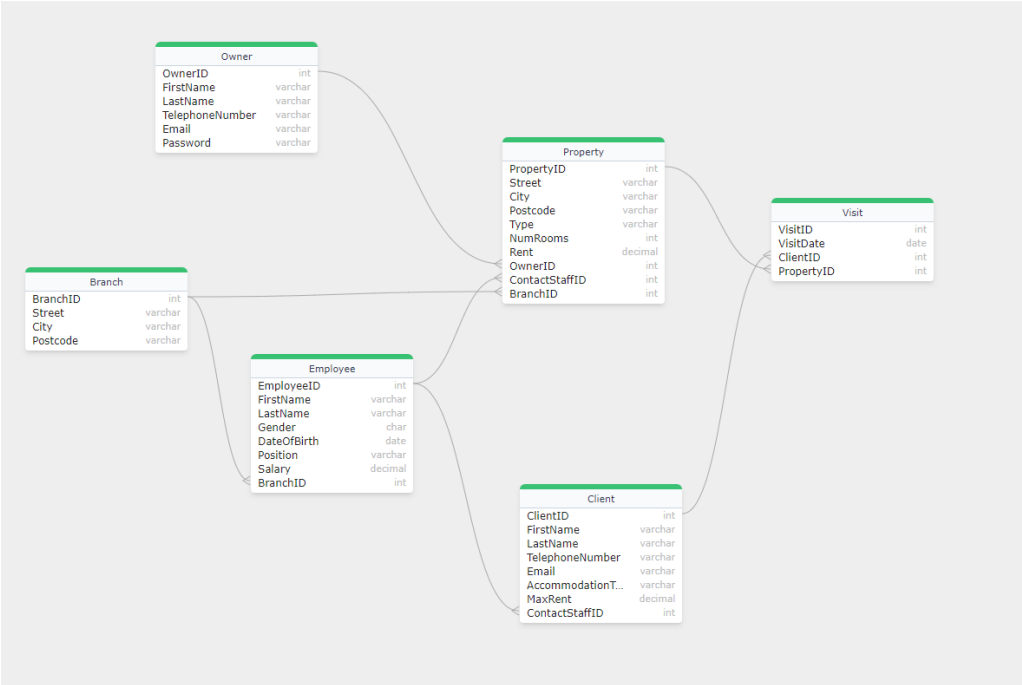
RentsFrom
Relationship between Client and Branch
Cardinality: Many-to-Many (A client can register in multiple branches, and a branch can have multiple clients)

Owns
Relationship between Owner and Property
Cardinality: One-to-Many (Each owner can own multiple properties, but each property is owned by one owner)

Manages
Relationship between Employee (Manager) and Property
Cardinality: One-to-Many (Each manager can manage multiple properties, but each property has one manager)

Visits
Relationship between Client and Property
Cardinality: Many-to-Many (A client can visit multiple properties, and a property can be visited by multiple clients)

The basic drawing of the Database :



The ER DRAWIG OF THE DATABASE :