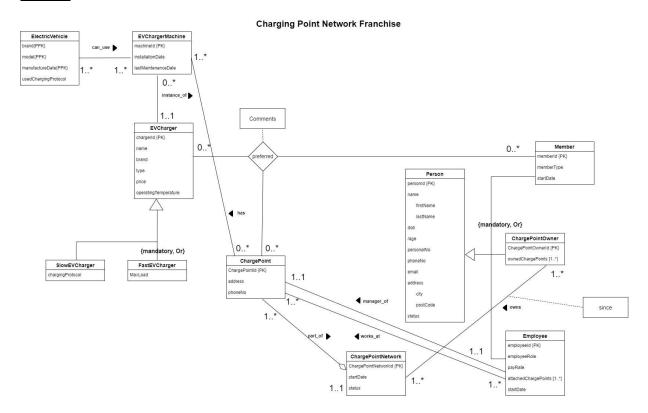
# **Assignment 2 Suggested Solutions**

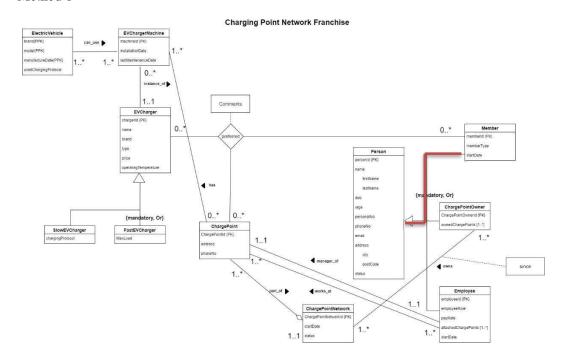
# Part A:



# Part B:

• Who is the member with the longest membership contract?

# Method 1

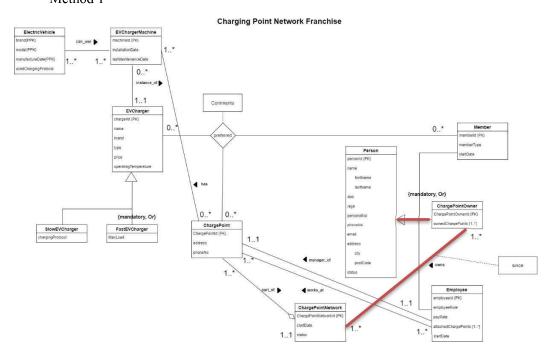


# Method 2

The transaction pathway visits the entity types Member, Person through inheritance.

• Who has owned charging network A for the longest?

# Method 1

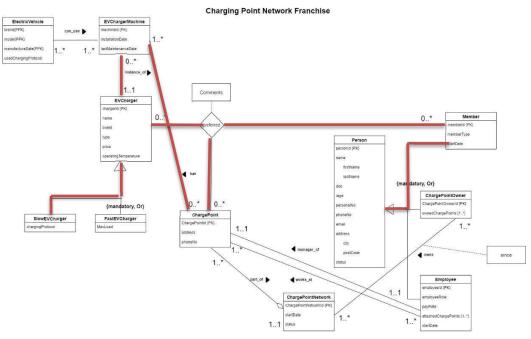


#### Method 2

The transaction pathway visits the entity types ChargePointNetwork, ChargePointOwner and Person through inheritance and the relationship type owns.

• Which members should be notified when the slow EV chargers of type X in charging station C has been upgraded?

#### Method 1

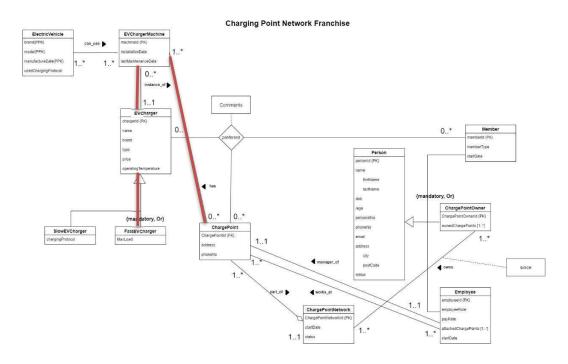


Method 2

The transaction pathway visits the entity types SlowEVCharger and EVCharger through inheritance, EVChargerMachine, ChargePoint, EVCharger, Member, and Person through inheritance and the relationship types instance\_of, has, and preferred.

• What charging stations have fast EV chargers?

# Method 1

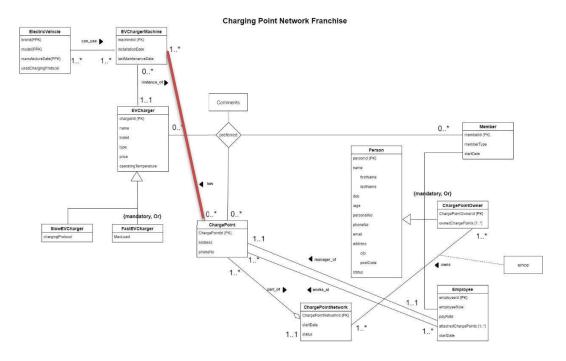


#### Method 2

The transaction pathway visits the entity types fastEVCharger, EVCharger and EVChargerMachine through inheritance, EVChargerMachine ,ChargePoint and the relationship types instance\_of, has.

• At what charging station is EV Charger Machine M installed?

# Method 1



# Method 2

The transaction pathway visits the entity types EVChargerMachine, ChargePoint and the relationship type has.