## Fitness center

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Customer entity
Customer(<u>id</u>, birthDate, name, mobile, email)
CustAdress(customer, number, street, city)
       FK: (customer) \subseteq Customer(id)
Equipment entity
Equipment(serialNumber, name, status)
usingNow(equipment, customer, length)
       FK: (equipment) \subseteq Equipment(serialNumber)
       FK: (customer) \subseteq Customer(id)
Supplements entity
Supplements(name, calories, cost)
canBuy(name, customerId)
       FK: (customerId) \subseteq Customer(id)
       FK: (name) \subseteq Supplements(name)
Weak entity and ISA hierarchy
Membership(<u>customer</u>, <u>endDate</u>, startDate, cost)
       FK: (customer) \subseteq Customer(id)
Standard(customer, endDate, standardCard)
       FK: (customer, endDate) \subseteq Membership(customer, endDate)
Platinum(customer, endDate, platinumCard)
       FK: (customer, endDate) \subseteq Membership(customer, endDate)
Classes entity
Classes(name, length, datum, classCode, cost)
Employee and recursive relationship
Employee(<u>id</u>, name, mobile, wage, email)
EmplAdress(employee, number, street, city)
       FK:(employee) \subseteq Employee(id)
Manager(employee, manager)
       FK: (employee) \subseteq Employee(id)
       FK: (manager) \subseteq Employee(id)
Ternary relationship
Has(customer, name, length, datum, employee)
       FK: (customer) \subseteq Customer(id)
       FK: (name, length, datum) \subseteq Classes(name, length, datum)
       FK: (employee) \subseteq Employee(id)
```