Fitness center

Customer entity **Customer**(<u>id</u>, birthDate, name, mobile) CustAdress(customer, number, street, city) FK: (customer) \subseteq Customer(id) Equipment entity **Equipment**(serialNumber, name, status) using(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) 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)