DOMAIN: **Gym Management**

Legend:
- AGGREGATE
- ENTITY
- VALUE OBJECT

FitnessGym (AGGREGATE)
- ID: FitnessGymId
- VO: Name
- VO: Email
- VO: PhoneNumber
- VO: Open
- VO: Address
- VO: Description
- EN: Set<Instructor>
- EN: Set<Salesman>
- EN: Set<Schedule>
- changeName()
- changeEmail()
- changePhoneNumber()
- changeDescription()
- isOpen()
- createSchedule()
- findScheduleById()
- changeSchedule()
- deleteSchedule()
- salesmanRegistration()
- findSalesmanById()
- updateSalesman()
- deleteSalesman()
- instructorRegistration()
- updateInstructor()
- deleteInstructor()
- findInstructorById()
- instructor()
- salesman()

Value Objects: Open, Description, Name, Email, PhoneNumber, Address

Instructor (ENTITY)
- ID: InstructorId
- VO: Name
- VO: Gender
- VO: Email
- VO: PhoneNumber
- VO: Address
- VO: Speciality
- generateGender()
- changeName()
- changeGender()
- changeEmail()
- changePhoneNumber()
- changeAddress()
- changeSpeciality()

Value Objects: Name, Email, PhoneNumber, Address, Gender, Speciality

Salesman (ENTITY)
- ID: SalesmanId
- VO: Name
- VO: Gender
- VO: Email
- VO: PhoneNumber
- VO: Address
- generateGender()
- changeName()
- changeGender()
- changeEmail()
- changePhoneNumber()
- changeAddress()

Value Objects: Name, Gender, Email, PhoneNumber, Address

Schedule (ENTITY)
- ID: ScheduleId
- VO: OpenDay
- VO: CloseDay
- VO: OpenHour
- VO: PauseHour
- VO: CloseHour
- show()
- changeOpenDay()
- changeCloseDay()
- changeOpenHour()
- changePauseHour()
- changeCloseHour()

Value Objects: OpenDay, CloseDay, OpenHour, PauseHour, CloseHour

SalesManager (AGGREGATE)
- ID: SalesManagerId
- ID: SalesmanId
- ID: FitnessGymId
- EN: Set<Customer>
- EN: Set<Invoice>
- EN: Set<SalesInfo>
- EN: Membership
- customerRegistration()
- generateAndSaveInvoice()
- findCustomerById()
- findSalesBasicInfoByCustomerId()
- invoices()
- salesInfos()
- customers()
- membership()

Invoice (ENTITY)
- ID: InvoiceNo
- ID: SalesmanId
- ID: CustomerId
- VO: Modality
- VO: StartDate
- VO: EndDate
- VO: PlanAmount
- generateInvoiceNo()

Value Objects: Modality, StartDate, EndDate, PlanAmount

SalesInfo (ENTITY)
- ID: SalesInfoId
- ID: SalesmanId
- ID: CustomerId
- generateSalesInfoId()

Membership (ENTITY)
- ID: MemberShipId
- VO: type
- planAmount()
- generateStartDate()
- generateEndDate()

Value Object: type

Modality <enum>
- STARTER
- BRONZE
- PLATINIUM
- CLASS

Customer (ENTITY)
- ID: CustomerId
- VO: Modality
- VO: StartDate
- VO: Name
- VO: EndDate
- VO: PhoneNumber
- VO: PlanAmount
- changeName()
- changePhoneNumber()
- changeModality()
- changeStartDate()
- changeEndDate()
- changePlanAmount()

Value Objects: Modality, StartDate, Name, EnDate, PhoneNumber, PlanAmount

Relationships (multiplicities): 1, 1...*, 0...*

FITNESSGYM

<< COMMAND >>
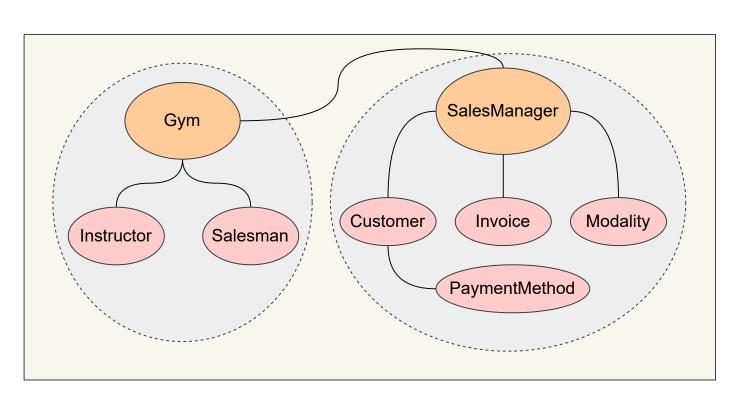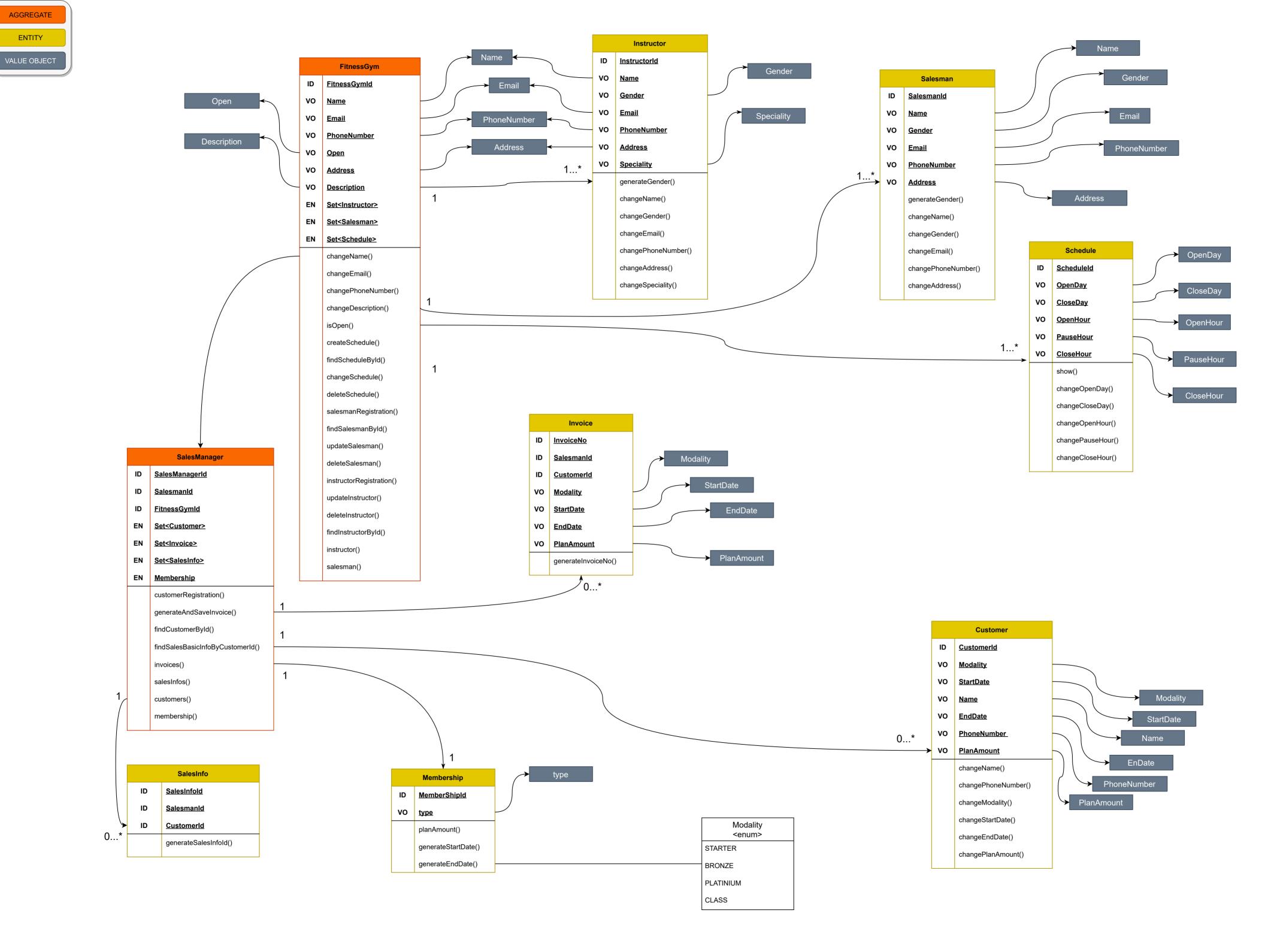
ChangeAddressFitnessGym

ChangeEmailFitnessGym

ChangeNameFitnessGym

CreateFitnessGym

ChangePhoneNumberFitnessGym

CreateSchedule

FindInstructor

FindSchedule

FindSalesman

InstructorRegistration

SalesmanRegistration

UpdateSalesman

UpdateInstructor

UpdateSchedule

<< EVENT >>

FitnessGymAddressChanged

FitnessGymCreated

FitnessGymEmailChanged

FitnessGymNameChanged

FitnessGymOpenChanged

FitnessGymPhoneNumberChanged

InstructorDeleted

InstructorRegistered

InstructorUpdated

SalesmanDeleted

SalesmanRegistered

SalesmanUpdated

ScheduleCreated

ScheduleDeleted

ScheduleUpdated

<< QUERY >>

FindScheduleById

FindInstructorById

CheckOpen

ShowInstructors

ShowSalesmen

ShowSchedule

SALESMANAGER

<< COMMAND >>

CreateSalesManager

CustomerRegistration

GenerateAndSaveInvoice

<< EVENT >>

CustomerRegistered

InvoiceGenerated

SalesManagerCreated

<< QUERY >>

FindCustomerById

FindSalesBasicInfoByCustomerId

ShowSalesInfos

ShowCustomers

ShowInvoices