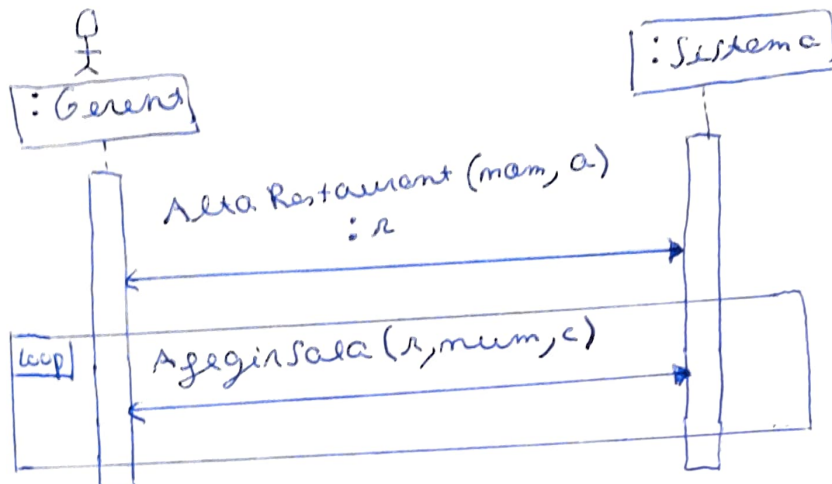# 7a entrega IES

Cas d'ús Alta de Restaurant:

- DSS:

- Contractes OCL:

context: Sistema :: Alta Restaurant (nom: String, a: String): Restaurant

pre: Restaurant. allInstances() → size() < 100 and
   Restaurant. allInstances() → forAll (r | r.sala → size() < 6)

post: Restaurant. allInstances() → exists (r | r.oclIsNew() and
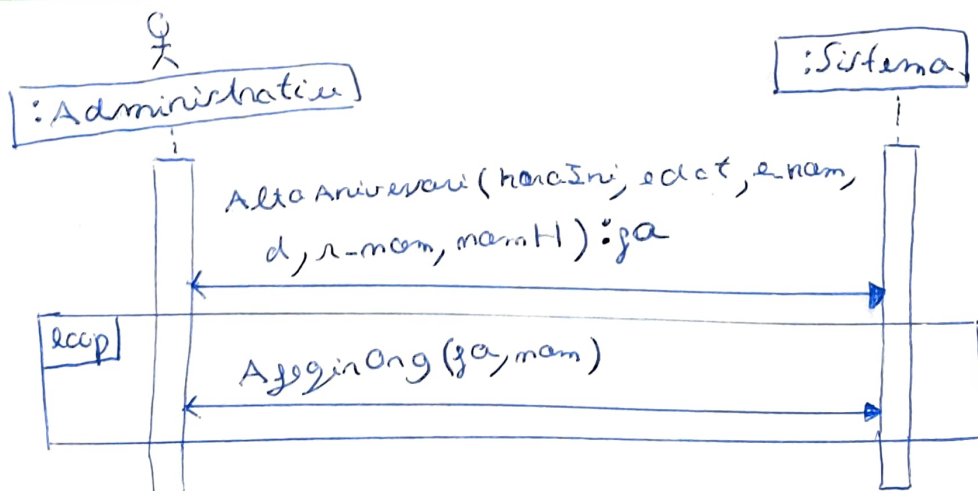   r.nom = nom and r.adreça = a and result = r)

context: Sistema :: AfegirSala (r: Restaurant, num: Integer, c: Integer)

pre:

post: Sala. allInstances() → exists (s | s.oclIsNew() and
   s.número = num and s.capacitat = c and s.restaurant = r)

Cas d'ús Alta Festa d'Aniversari

- DSS:

- Contractes OCL:

context: Sistema:: Alta Aniversari (horaIni: Integer, edat: Natural,
e_nom: String, d: Date, r_nom: string, nom H: String): Aniversari

pre: Empresa. allInstances() → exists(e | e nom = e_nom) and
Restaurant. allInstances() → exists(r | r.nom = r_nom) and
Persona. all Instances() → exists(p | p.nom = nom H)

post: Aniversari. allInstances() → exists(ja | ja.oclIsNew()
and ja.edat = edat and ja. horaInici = horaIni and
ja. empresa. nom = e_nom and jo. date. data = d and
ja. restaurant. nom = r_nom and ja. homenatjada.nom = nomH
and ja. tipusDeFesta.nom = "Aniversari" and Assistent.allInstances()
→ exists (a | a.oclIsNew() and a.participacions = ja
and a. participant. nom = nomH and a. pagat) and
result = ja)

context Sistema:: Afegir Org (ja: Aniversari, nom: String)
pre: Persona. allInstances() → exists (p | p.nom = nom)
post: ja. organitzador.nom → includes(nom) and
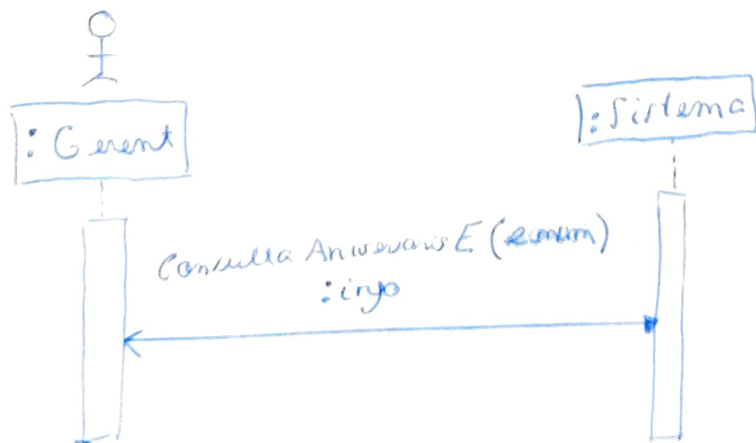Assistent. allInstances() → exists(a | a.oclIsNew() and
a.participacions = jo and a.participant. nom = nom
and o. pagat = true)

-DSS

Consulta AniversarisE (e.num)
: info

- Contracte OCL:

context: Sistema:: ConsultaAniversaris E (e_nom: String):
    Set (TupleType (nomH: String, nomOrgs: Set (String)))

pre: Empresa.allInstances() $\rightarrow$ exists (e) e.nom = e_nom
    and e.festa.tipusDeFesta $\rightarrow$ includesAll (e.tipusDeFesta))

body: let aniversaris: Set (Aniversari) = Aniversari.allInstances()
    $\rightarrow$ select (a | a.empresa.nom = e_nom and a.assistent $\rightarrow$ size()<30
    and a.participant.nom $\rightarrow$ excludes (a.homenatjada.nom)
in
    result = aniversaris $\rightarrow$ collect (a | Tuple {nomH =
        a.homenatjada.nom, nomOrgs = a.organitzador.nom})