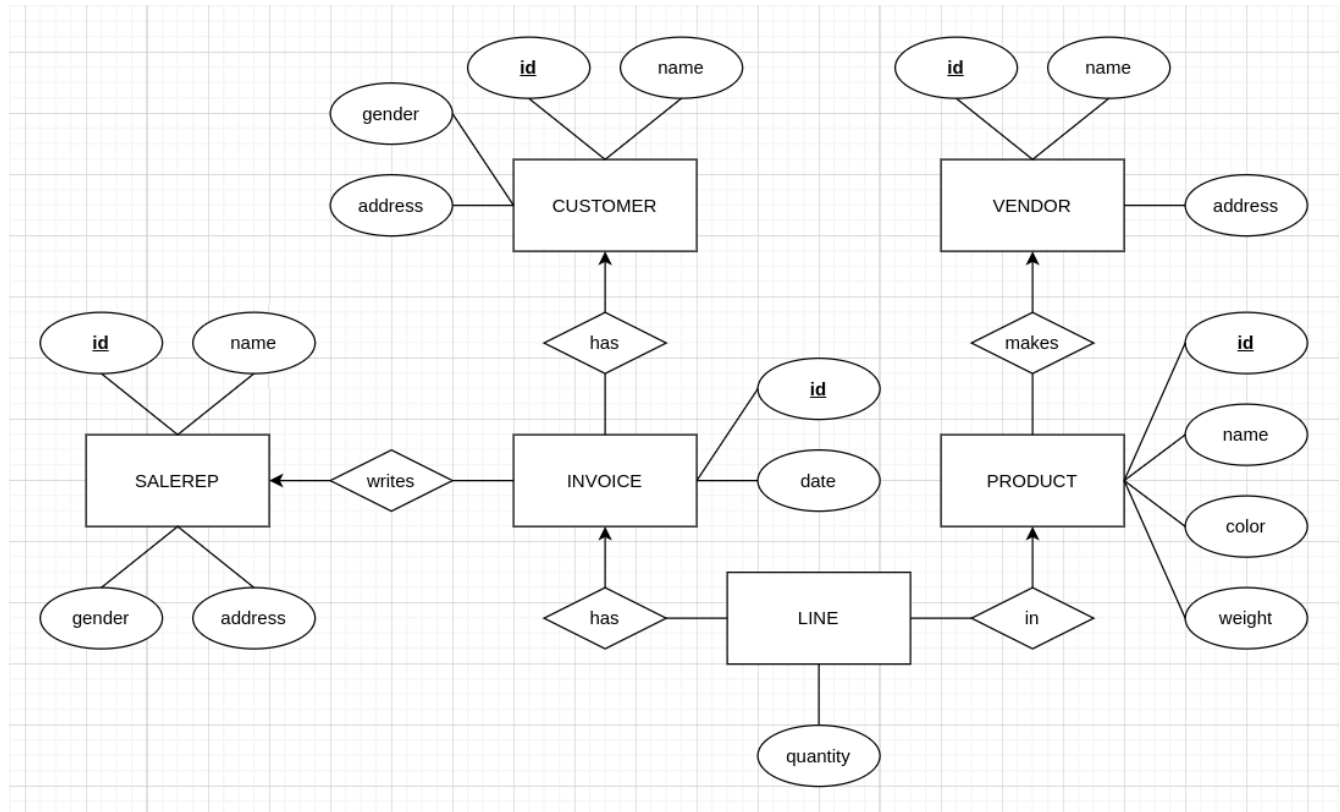**1.**

SaleRep(<u>id</u>, name, gender, address)
      CK id

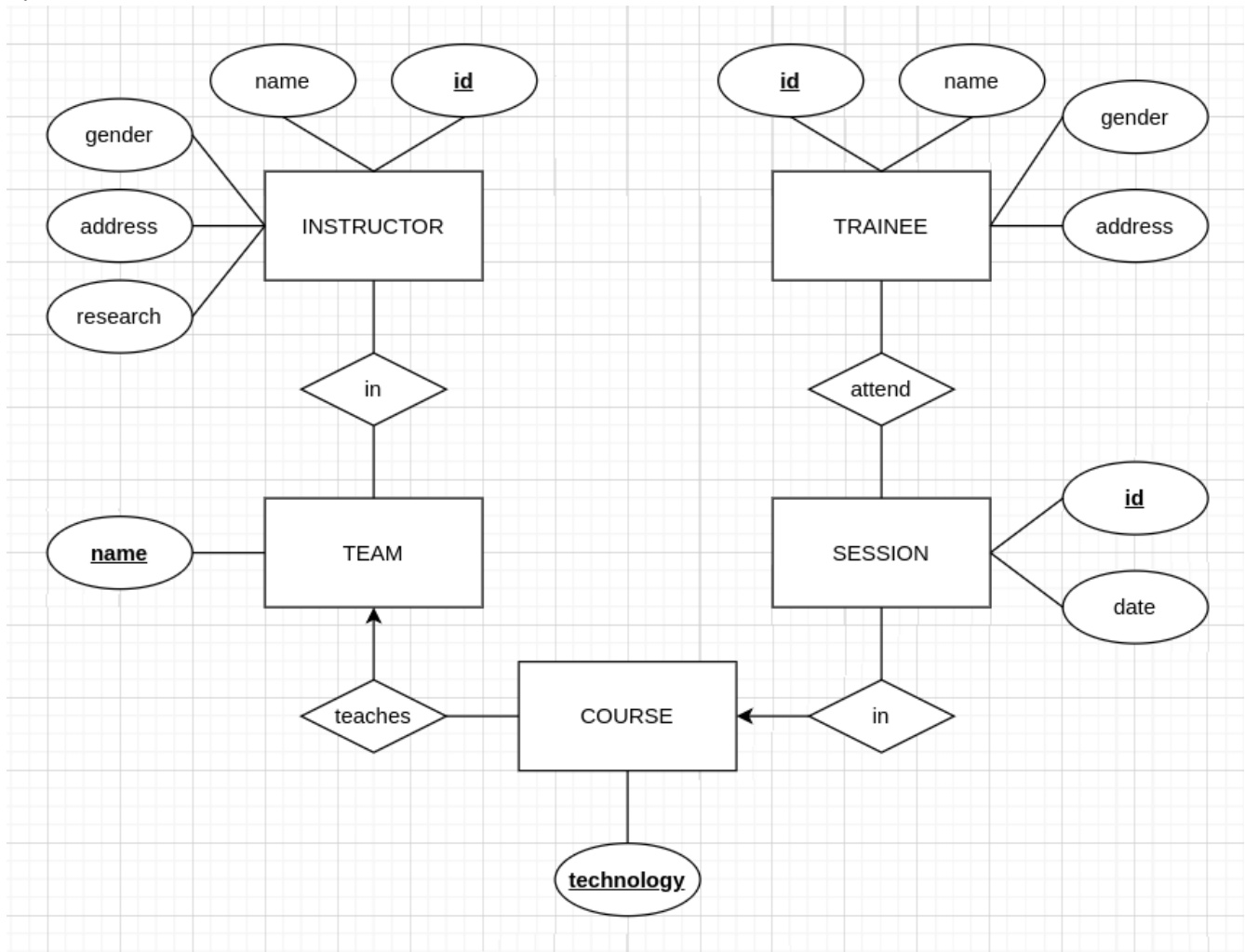Customer(<u>id</u>, name, gender, address)
      CK id

Product(<u>id</u>, name, color, weight, vId)
      CK id
      FK vId references Vendor(id)

Vendor(<u>id</u>, name, address)
      CK id

Invoice(<u>id</u>, <u>cId</u>, <u>sId</u>, date)
      CK id or cId and sId
      FK cId references Customer(id)
      FK sId references SaleRep(id)

Line(<u>iId</u>, <u>pId</u>, quantity)
      CK iId and pId
      FK iId references Invoice(id)
      FK pId references Product(id)

2.

Instructor(<u>id</u>, name, gender, address, research)
     CK id

Team(<u>name</u>)
     CK name

Trainee(<u>id</u>, name, gender, address)
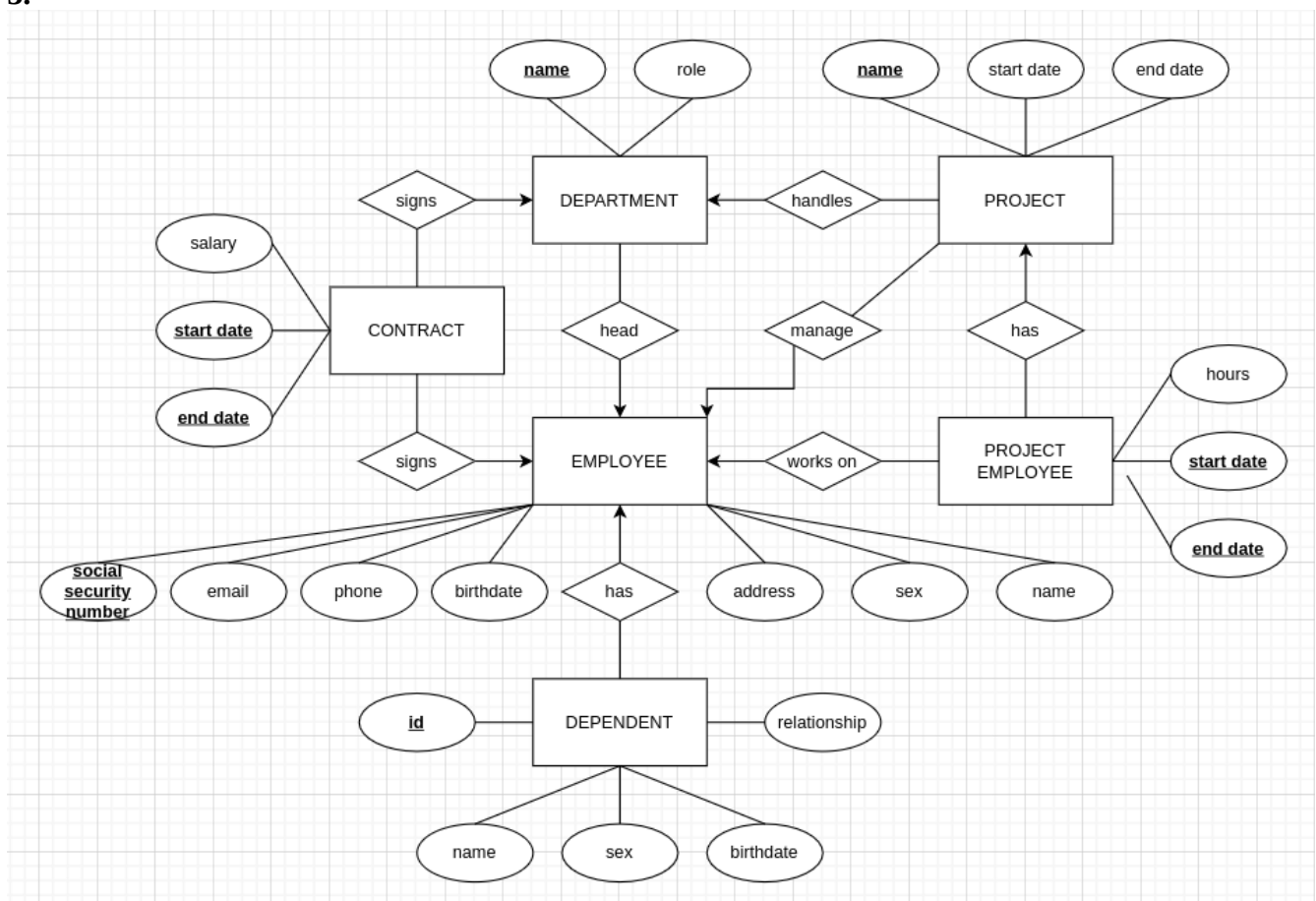   CK id

TeamInstructor(<u>iId</u>, <u>tId</u>)
     CK iId and tId
     FK iId references Instructor(id)
     FK tId reference Team(id)

Course(<u>technology</u>, tId)
     CK technology
     FK tId references Team(id)

Session(<u>id</u>, <u>date</u>, <u>cTechnology</u>)
      CK id or date and cTechnology
      FK cId references Course(technology)

Attend(<u>tId</u>, <u>sId</u>, attended)
      CK tId and sId
      FK tId references Trainee(id)
      FK sId references Session(id)

3.

Employee(<u>socialSecurityNumber</u>, email, phone, name, sex, address, birthdate)
    CK socialSecurityNumber

Dependent(<u>id</u>, name, sex, birthdate, relationship, eSSN)
    CK id
    FK eSSN references Employee(socialSecurityNumber)

Department(<u>name</u>, role, head)
    CK name
    FK head references Employee(socialSecurityNumber)

Project(<u>name</u>, startDate, endDate, manager, department)
    CK name
    FK manager references Employee(socialSecurityNumber)
    FK department references Department(name)

Contract(<u>eSSN</u>, <u>dName</u>, <u>startDate</u>, <u>endDate</u>, salary)
    CK eSSN and dName and startDate and endDate
    FK eSSN references Employee(socialSecurityNumber)
    FK dName references Department(name)

ProjectEmployee(<u>eSSN</u>, <u>pName</u>, <u>startDate</u>, <u>endDate</u>, hours)
    CK eSSN and pName and startDate and endDate
    FK eSSN references Employee(socialSecurityNumber)
    FK pName references Project(name)