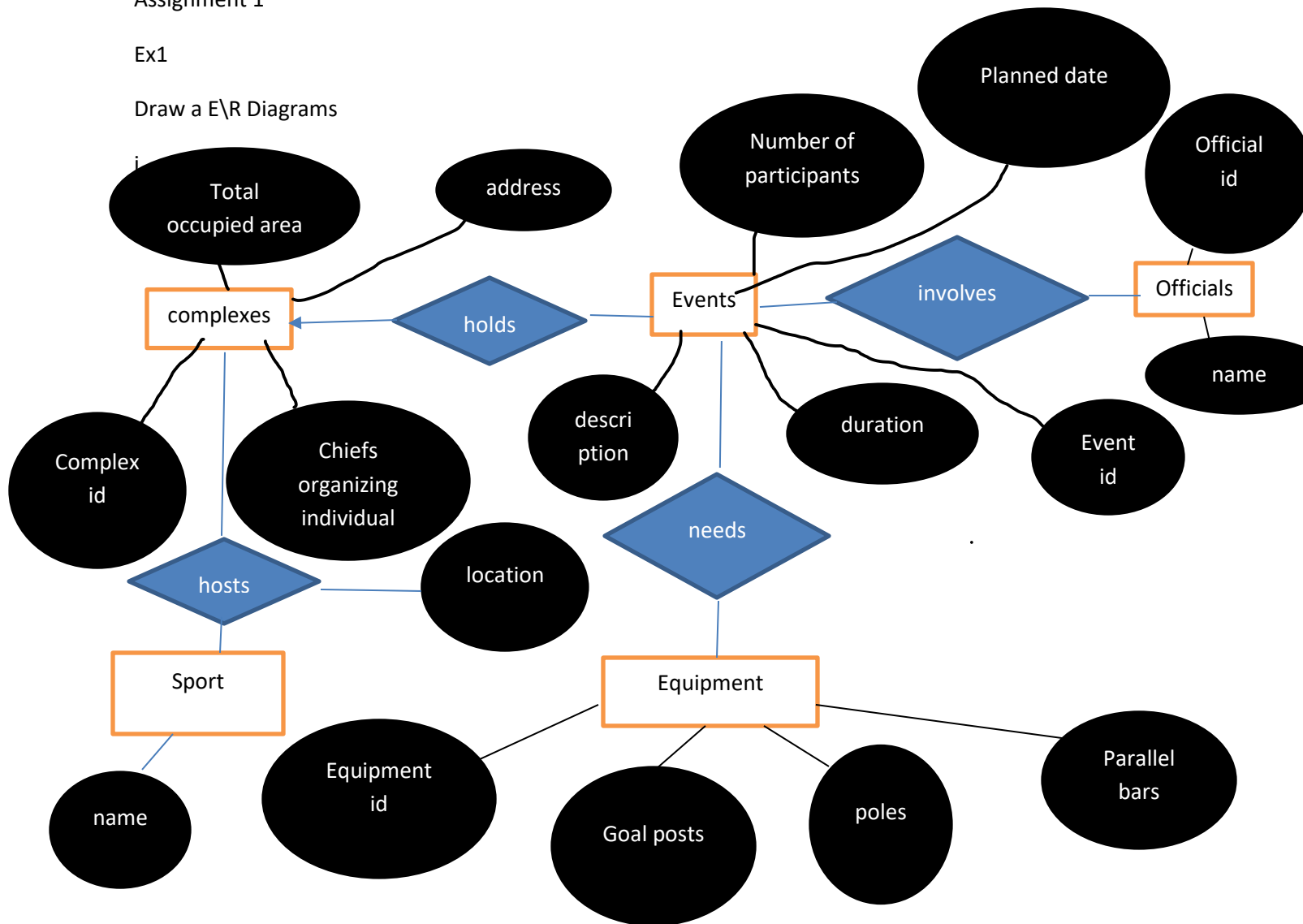


CSC 370

Assignment 1

Ex1

Draw a E\R Diagrams



E/R diagram into a relational

schema:

Complexes (complex id PRIMARY KEY, total occupied area, address, chief organizing individual)

Sport(name PRIMARY KEY)

Hosts(complex id REFERENCES Complexes, name REFERENCES Sport)

Events (event id PRIMARY KEY, description, number of participants, planned date, duration, complex id REFERENCES Complexes)

Officials(official id PRIMARY KEY, name)

Equipment(equipment id PRIMARY KEY, goal posts, poles, parallel bars)

Involves (event id REFERENCES Events, official id REFERENCES Officials)

Needs (event id REFERENCES Events, equipment id REFERENCES Equipment)

Exe 2

Database system for a baseball organization

1- Draw an E/R diagram

Some abbreviations for my E/R diagram design

First name: fn

Last name: ln

Date of birth: db

Place of birth: pb

Player id: pid

Coach id: cid

Umpire id: uid

Manager id: mid

Batting orientation: bo

lifetime batting average: ba

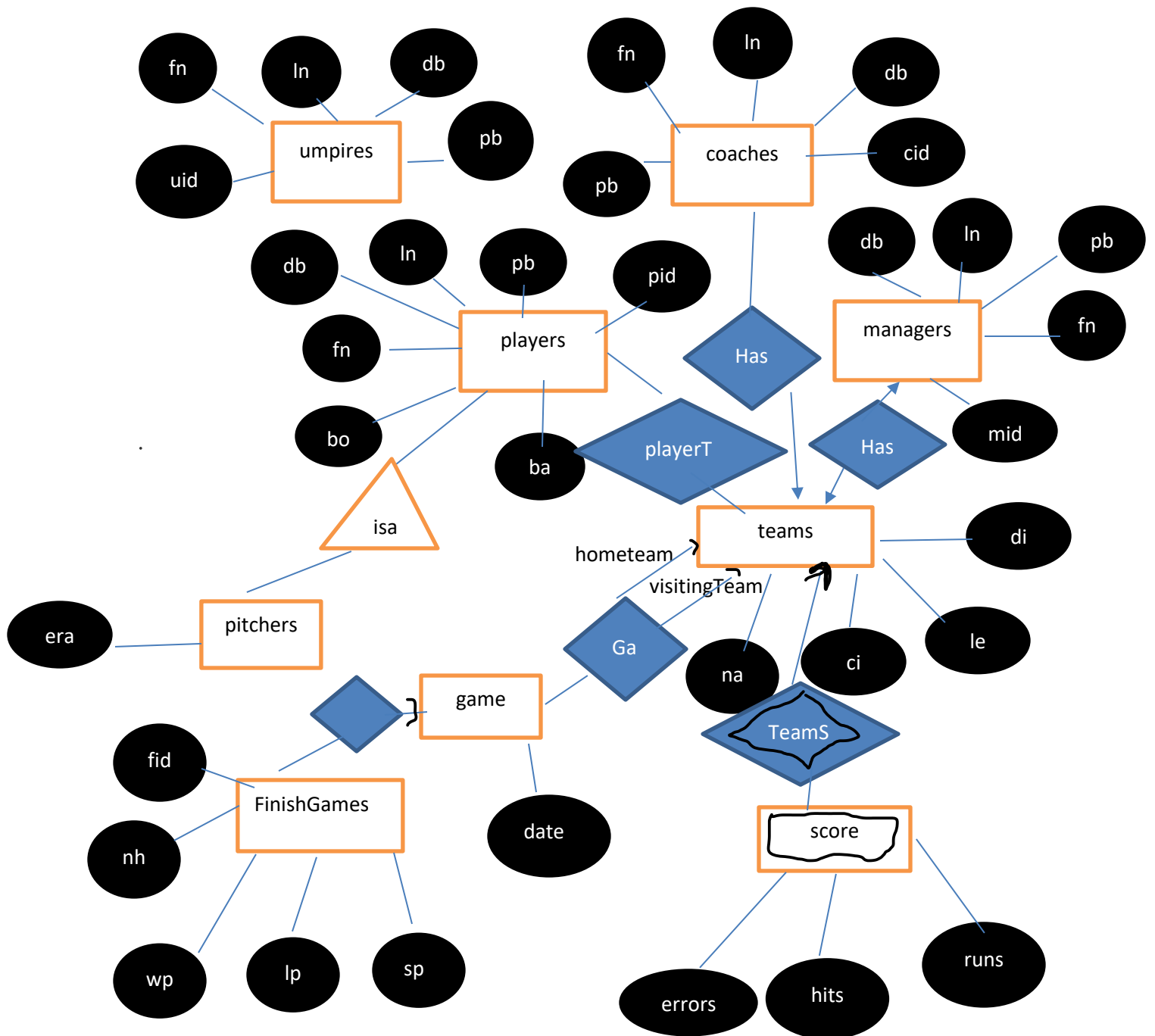
earned run average: era

name: na

city:ci

division :di

league:le



Schema of the E\R diagram

Umpires(uid primary key, firstName, lastName, dateOfBirth, placeOfBirth)

managers(mid primary key, firstName, lastName, dateOfBirth, placeOfBirth)

players(pid primary key, firstName, lastName, dateOfBirth, placeOfBirth, battingOrientation, lifetimeBattingAverage)

pitchers(pid primary key, earnedRunAverage)

teams(name primary key, city, league, division, managerId references managers)

coaches(cid primary key, firstName, lastName, dateOfBirth, placeOfBirth, teamId references teams)

playerTeam(playerId references players,teamId references teams)

game(homeTeamId, visitingTeamId, date)

score(runs, hits, errors, teamId references teams)

FinishGames(fld primary key, winnerPitcherName, LoserPitcherName, savePitcherName,
numberOfHitByEachPlayer,foreign Key (homeTeamId, visitingTeamId, date) references game)

Exercise 3

For the E/R diagram, please notice that I use the relationship symbol



because the tool I used to draw did not have the symbol for hierarchy. Please find the picture for the E/R diagram for doctors.

Doctors(doctorId primary Key, name, specialty, numberOfyearsOfYearexperience)

HospitalDoctor(doctorId references Doctors primary Key, name, specialty,
numberOfyearsOfYearexperience,hospitalName)

FamilyPhysicians(doctorId references Doctors primary Key, name, specialty,
numberOfyearsOfYearexperience,officeAddress)

HopitalDoctorAndFamilyPhysicians (doctorId references Doctors primary Key, name, specialty,
numberOfyearsOfYearexperience,hospitalName,officeAddress)