**Solution**

a) ER diagram solution is the following:
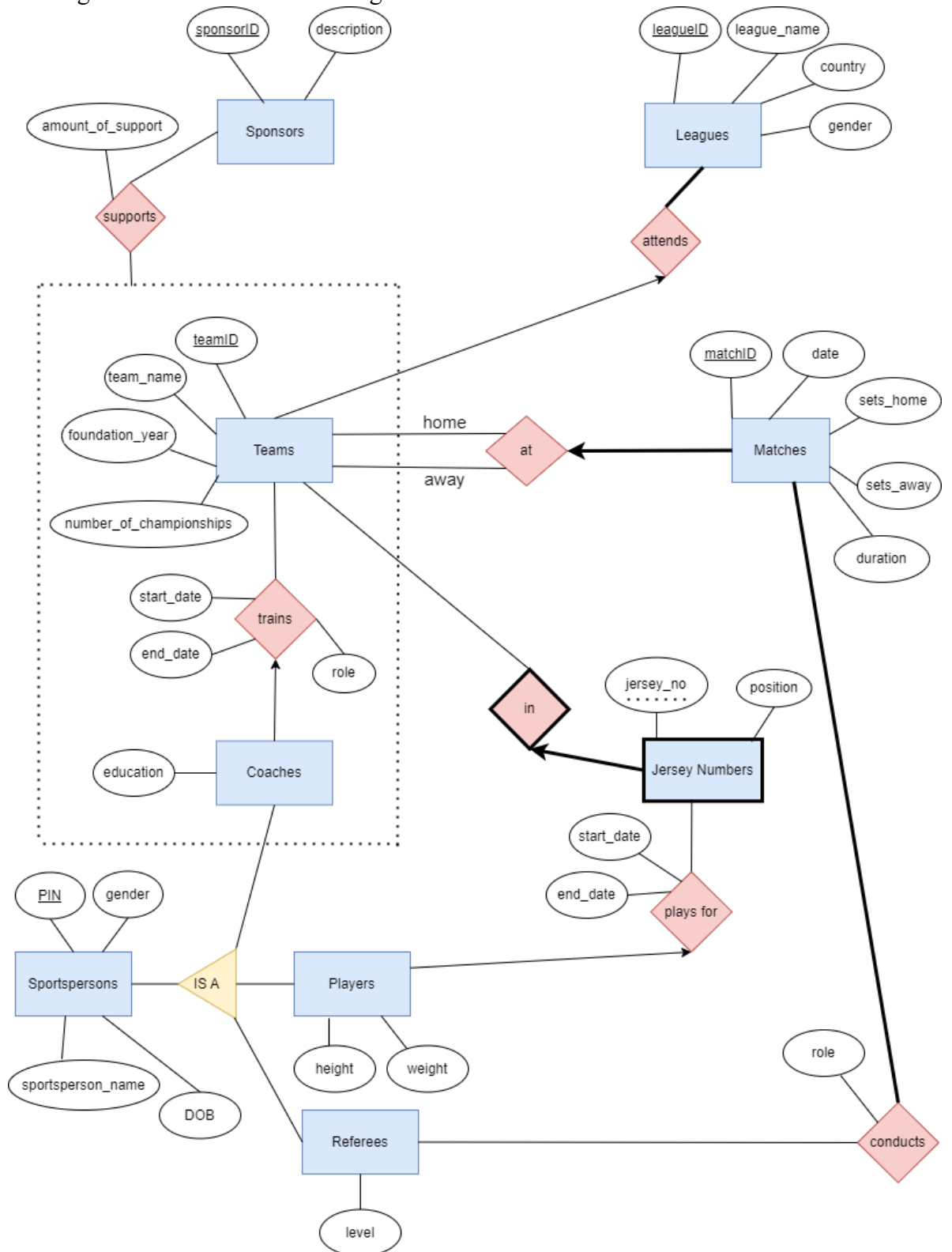
b) List of schemata for solution is the following:

**Leagues** (leagueID, country, league_name, gender)
**Sportspersons** (PIN, sportsperson_name, gender, DOB)
**Referees** (PIN, level) PIN REFERENCES **Sportspersons** (PIN)
**Sponsors** (sponsorID, description)
**Jersey Numbers** (jersey_no, position, teamID) teamID REFERENCES **Teams** (teamID)

**Matches** (matchID, home_teamID, away_teamID, date, duration, sets_home, sets_away) home_teamID REFERENCES **Teams** (teamID), away_teamID REFERENCES **Teams** (teamID)

**Conducts** (PIN, matchID, role) PIN REFERENCES **Referees** (PIN), matchID REFERENCES **Matches** (matchID)

**Alternative 1 for Teams:**
    **Teams** (teamID, team_name, foundation_year, number_of_championships)
    **Attends** (teamID, leagueID) leagueID REFERENCES **Leagues** (leagueID), teamID REFERENCES **Teams** (teamID)
**Alternative 2 for Teams:**
    **Teams** (teamID, leagueID, team_name, foundation_year, number_of_championships) leagueID REFERENCES **Leagues** (leagueID)

**Alternative 1 for Players:**
    **Players** (PIN, height, weight) PIN REFERENCES **Sportspersons** (PIN)
    **Plays for** (PIN, teamID, jersey_no, start_date, end_date) PIN REFERENCES **Players** (PIN), (teamID, jersey_no) REFERENCES **Jersey Numbers** (teamID, jersey_no)
**Alternative 2 for Players:**
    **Players** (PIN, height, weight, teamID, jersey_no, start_date, end_date) PIN REFERENCES **Sportspersons** (PIN), (teamID, jersey_no) REFERENCES **Jersey Numbers** (teamID, jersey_no)

**Coaches** (PIN, education) PIN REFERENCES **Sportspersons** (PIN)
**Trains** (PIN, teamID, start_date, end_date, role) PIN REFERENCES **Coaches** (PIN), teamID REFERENCES **Teams** (teamID)

**Supports** (sponsorID, PIN, amount_of_support) sponsorID REFERENCES **Sponsors** (sponsorID), PIN REFERENCES **Trains** (PIN)