-Database project-

metro PLUS
Premier League

Lucas PECH – Arthur RAPP – Kada YKHLEF – Lucas CHAMPSAUR

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I. The league and its requirements
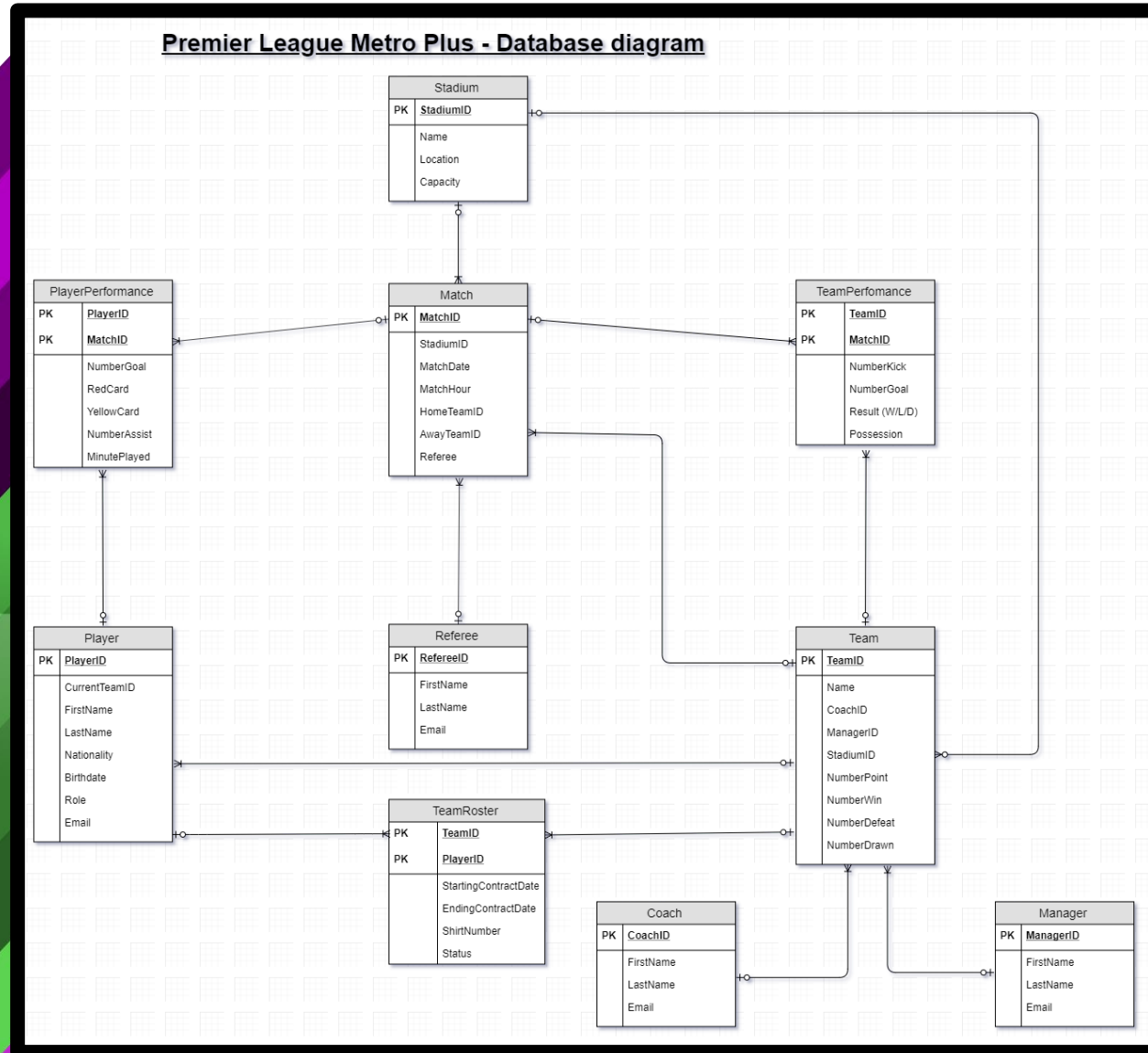
-schedule of games
-referees of each game
-match locations

-primary pieces of information of each players/teams
-statistics on the performances of our league's players/teams
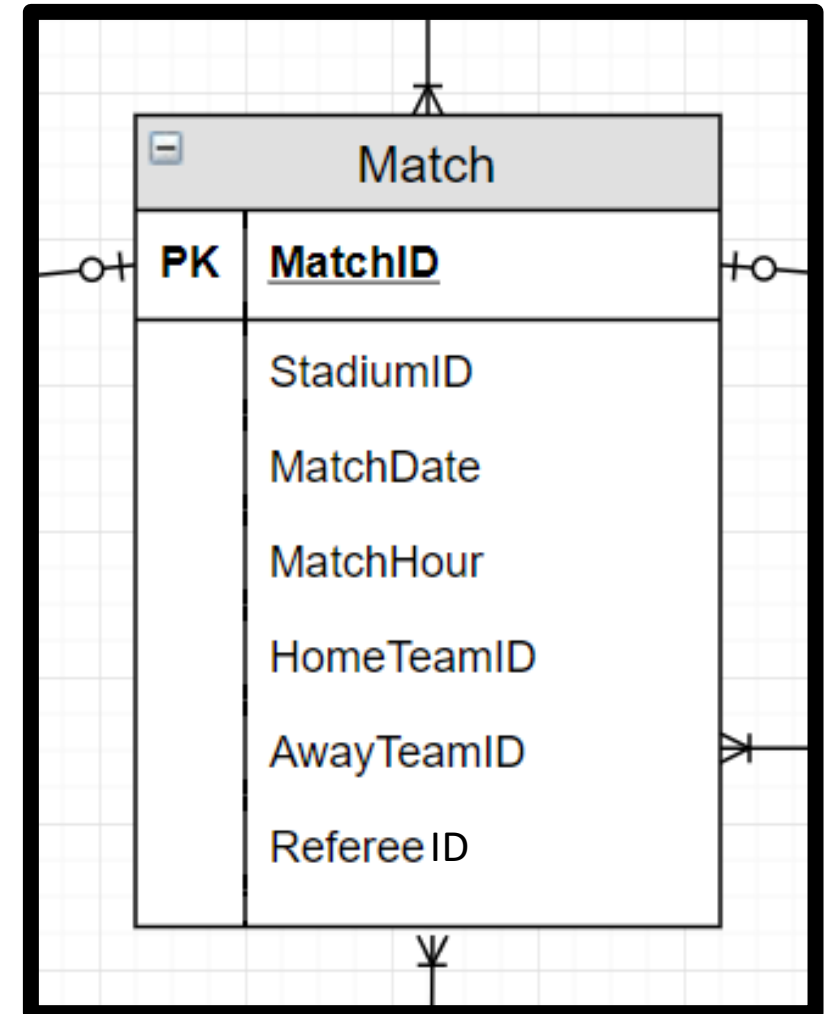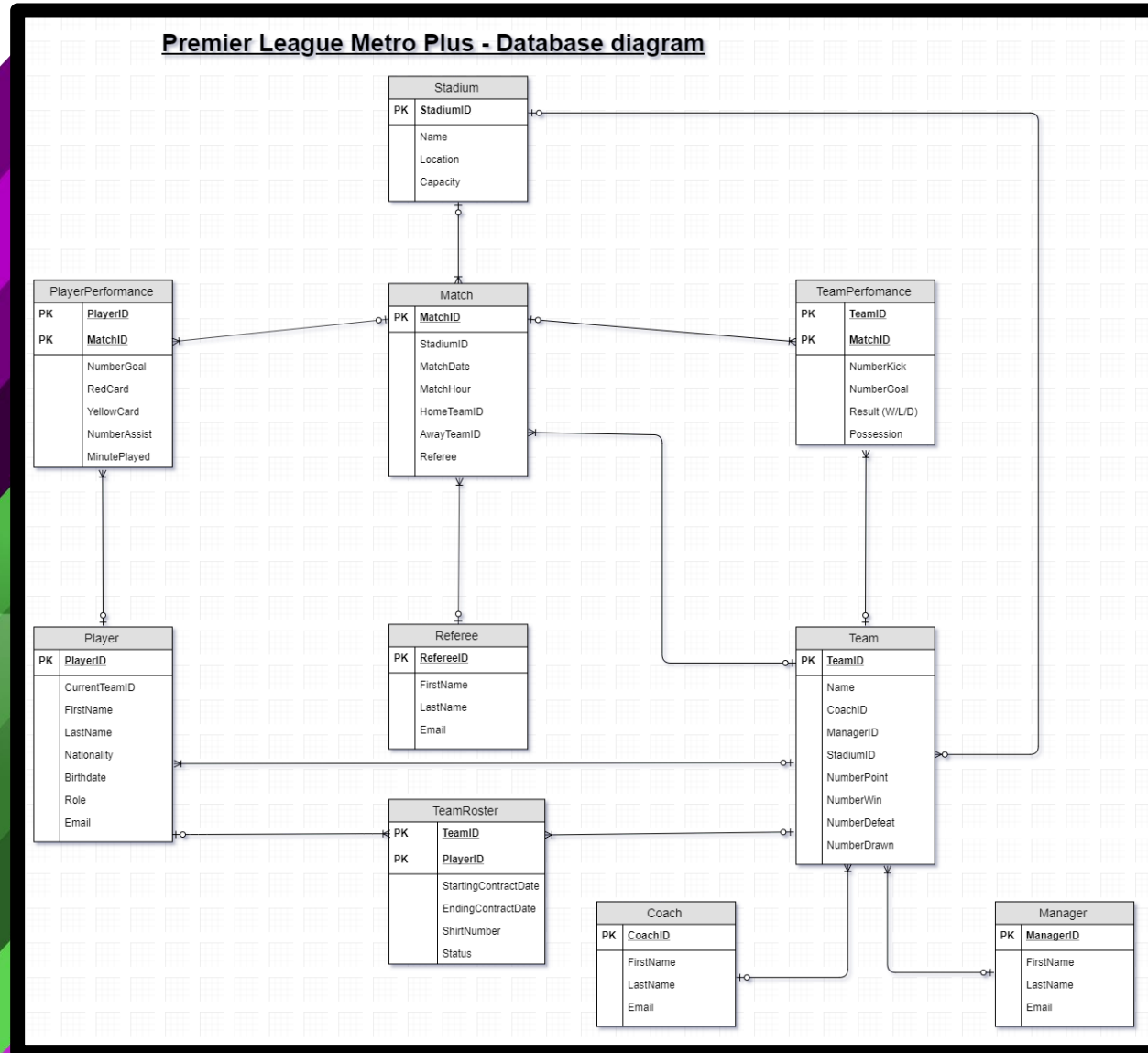-manager information for each team

II. Who are our clients ?

Gambling companies

Players

Fans

Gamblers

Sponsors

League executives

Coaches

III. The design and its functionnalities

Premier League Metro Plus - Database diagram

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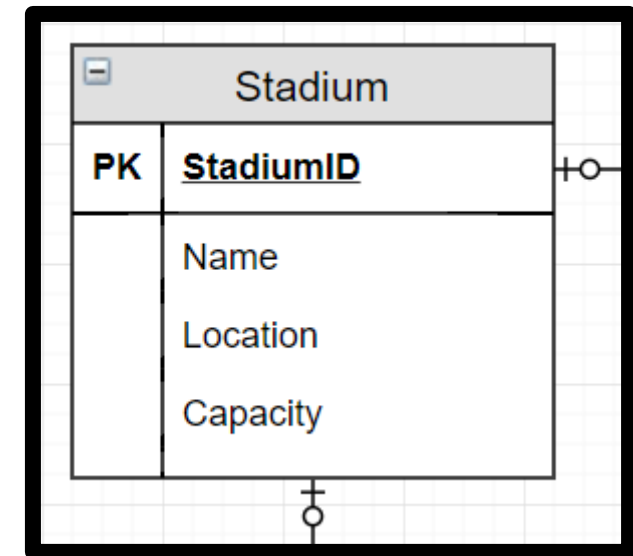

Premier League Metro Plus - Database diagram

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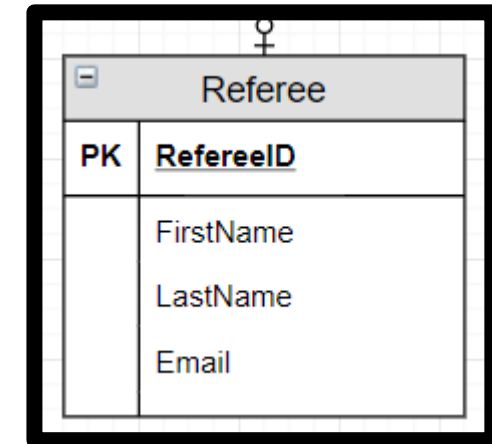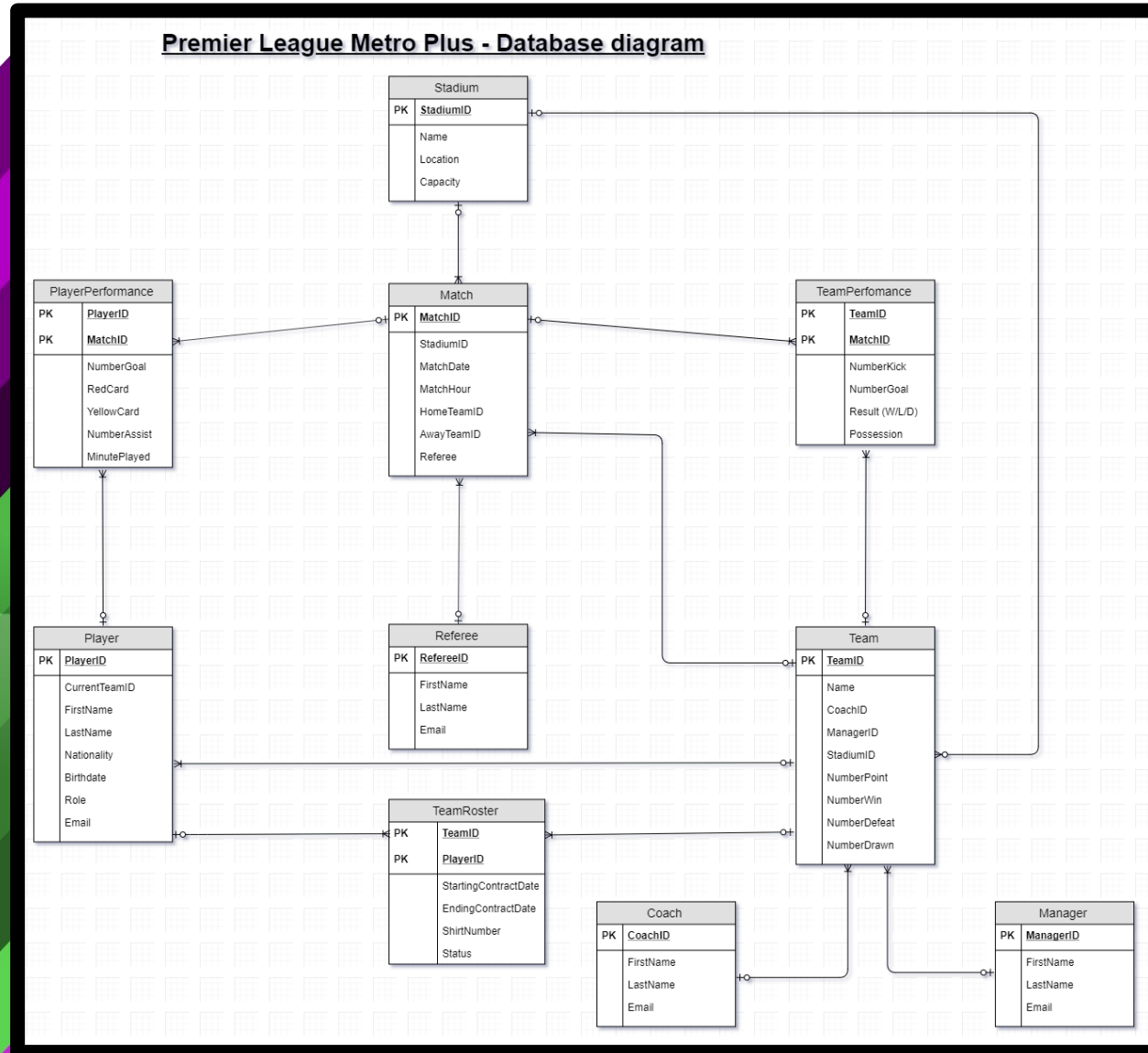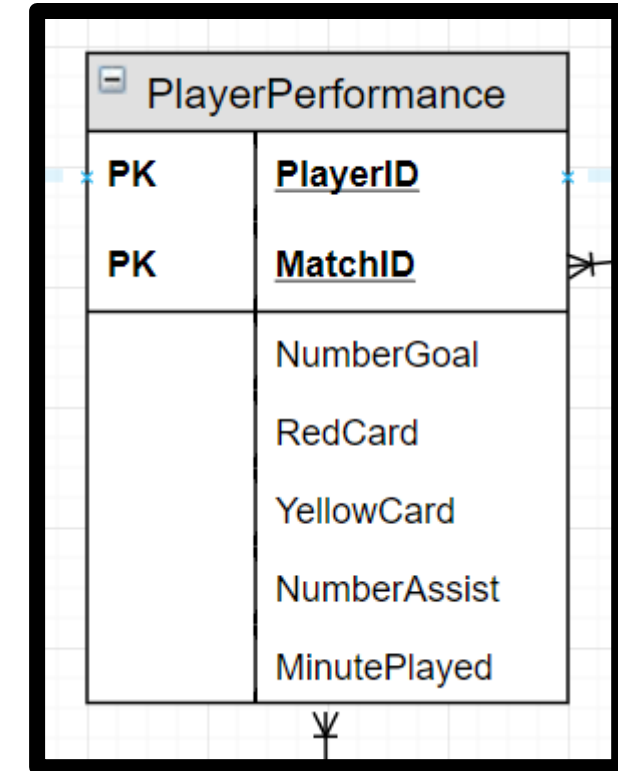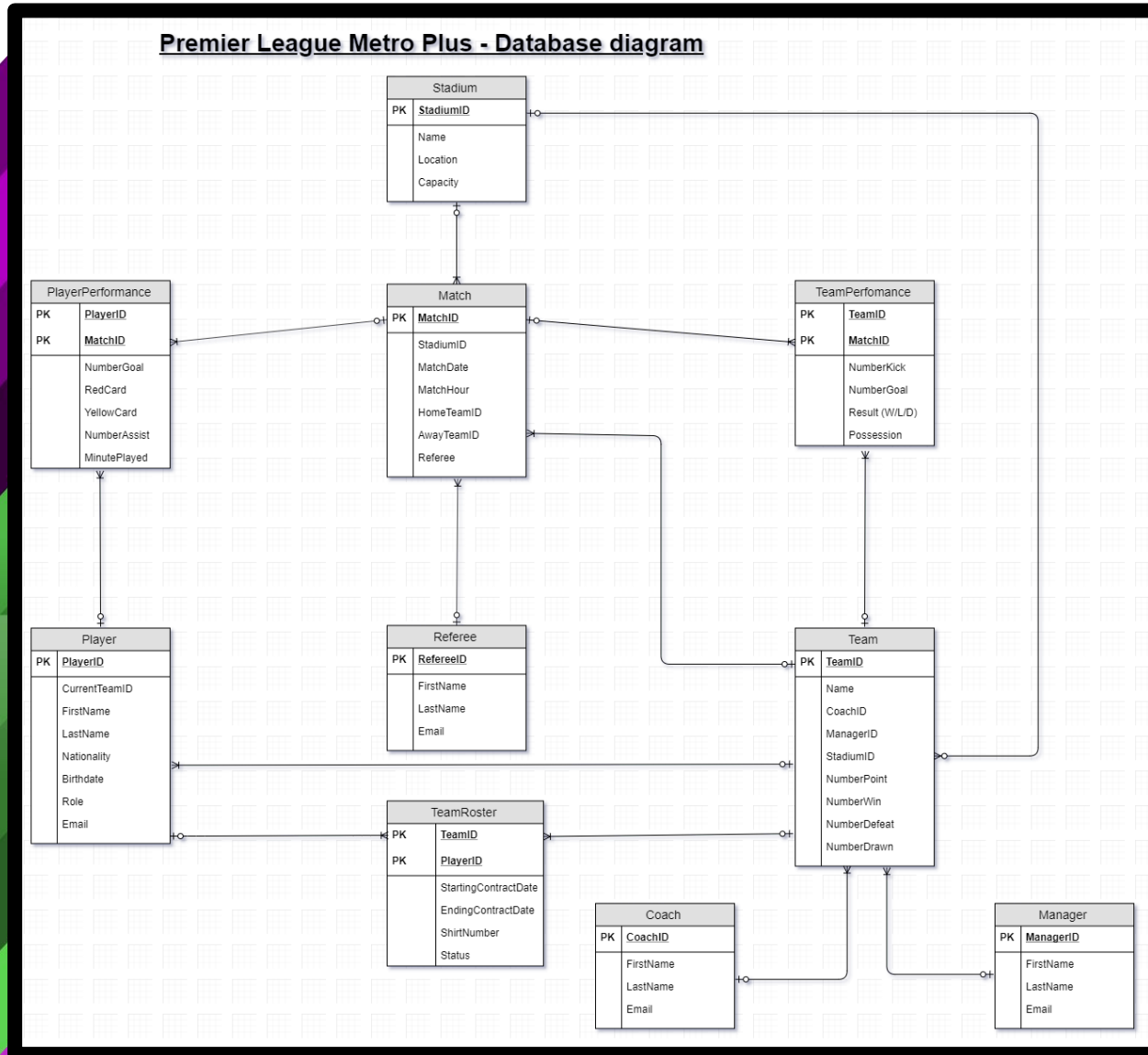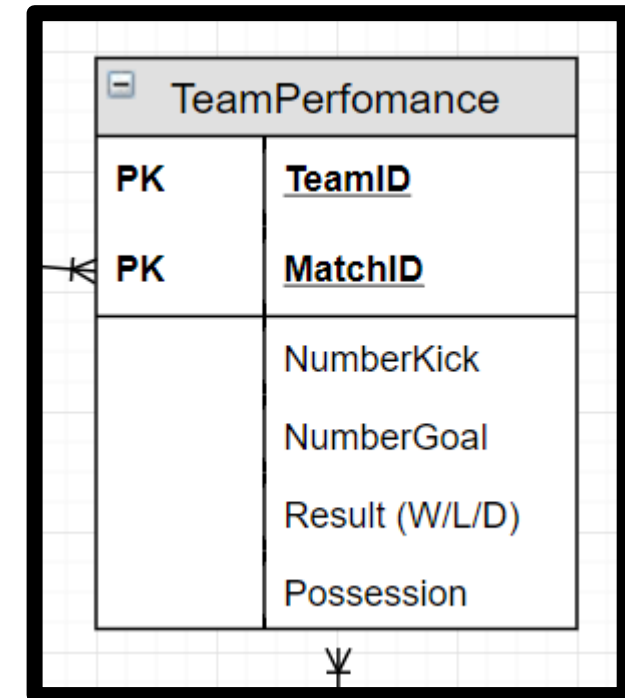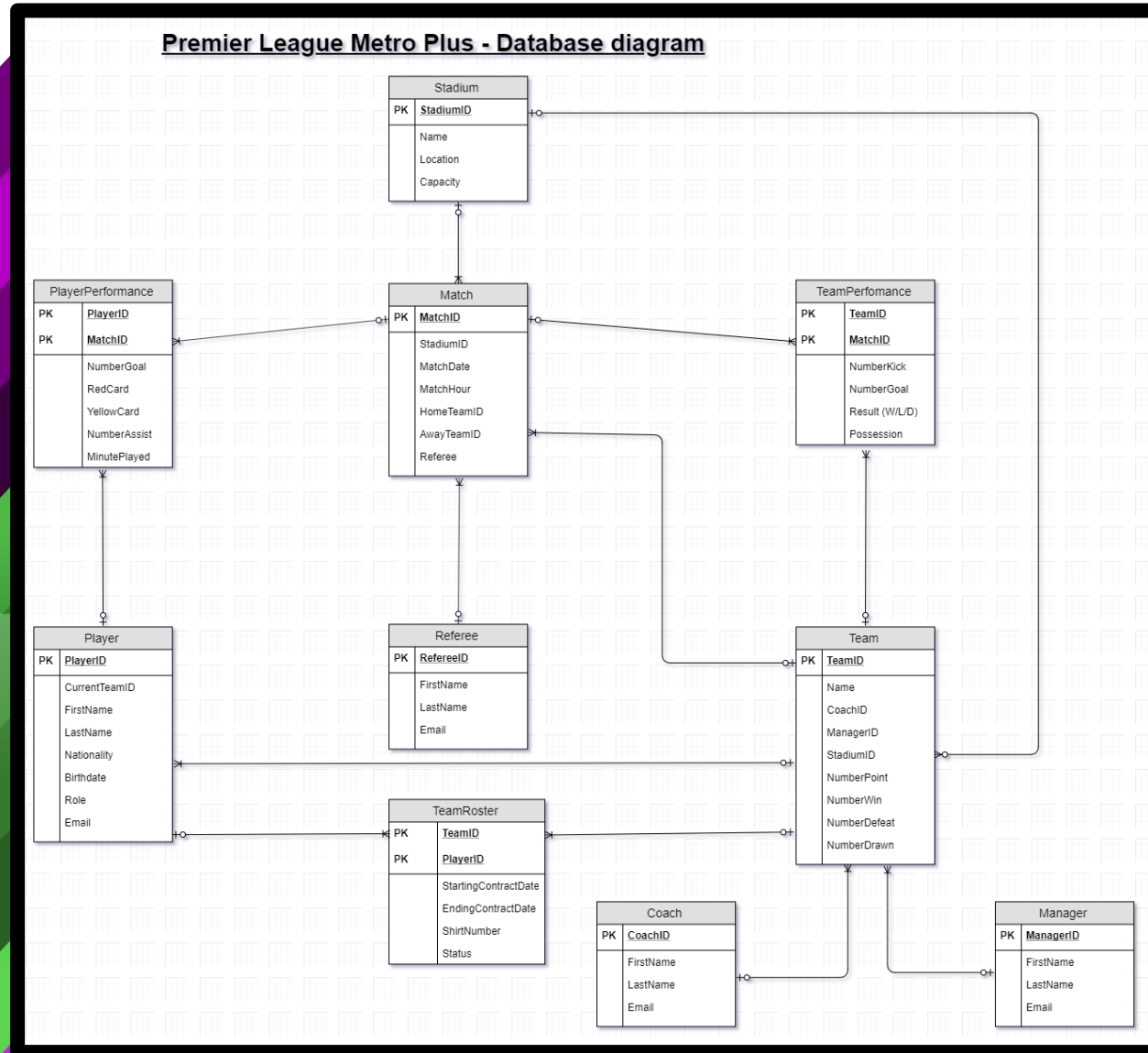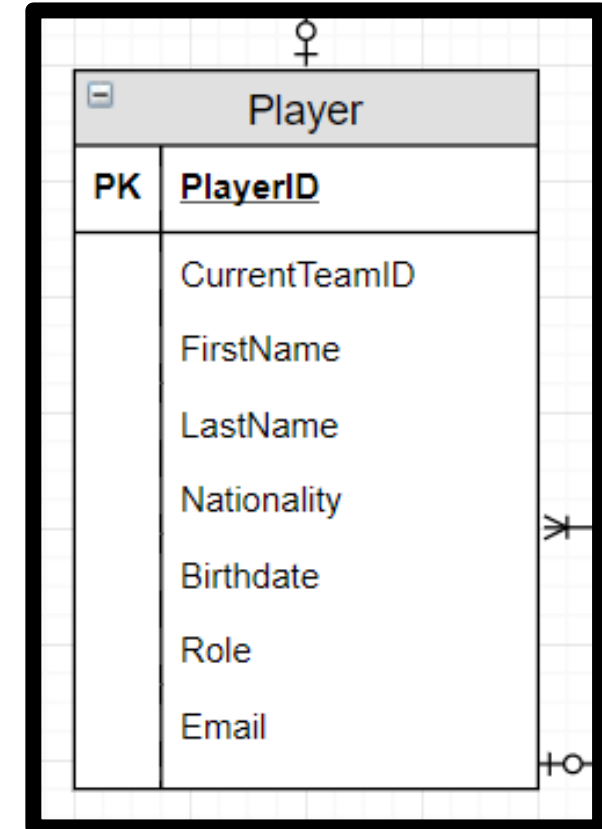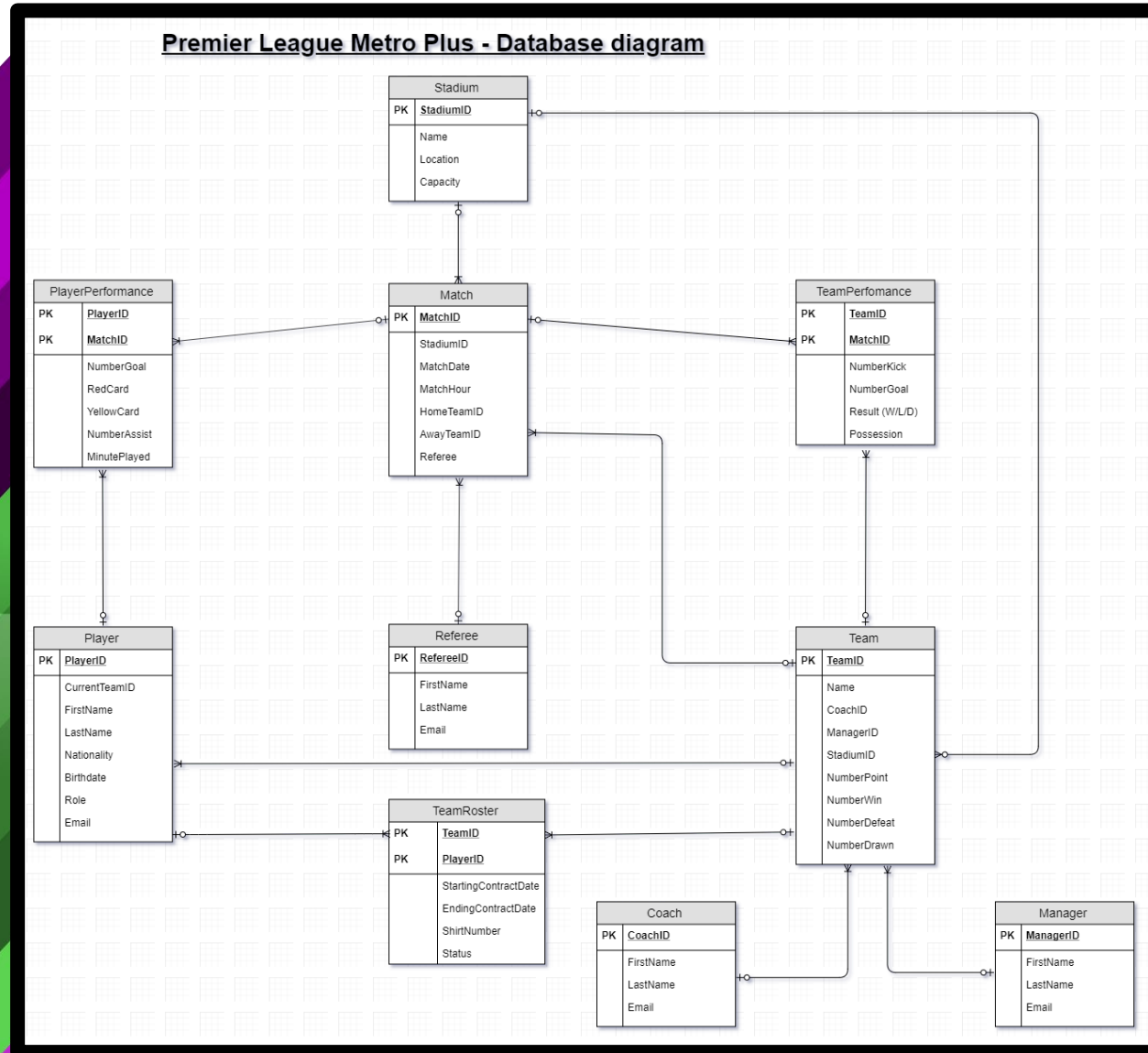Premier League Metro Plus - Database diagram

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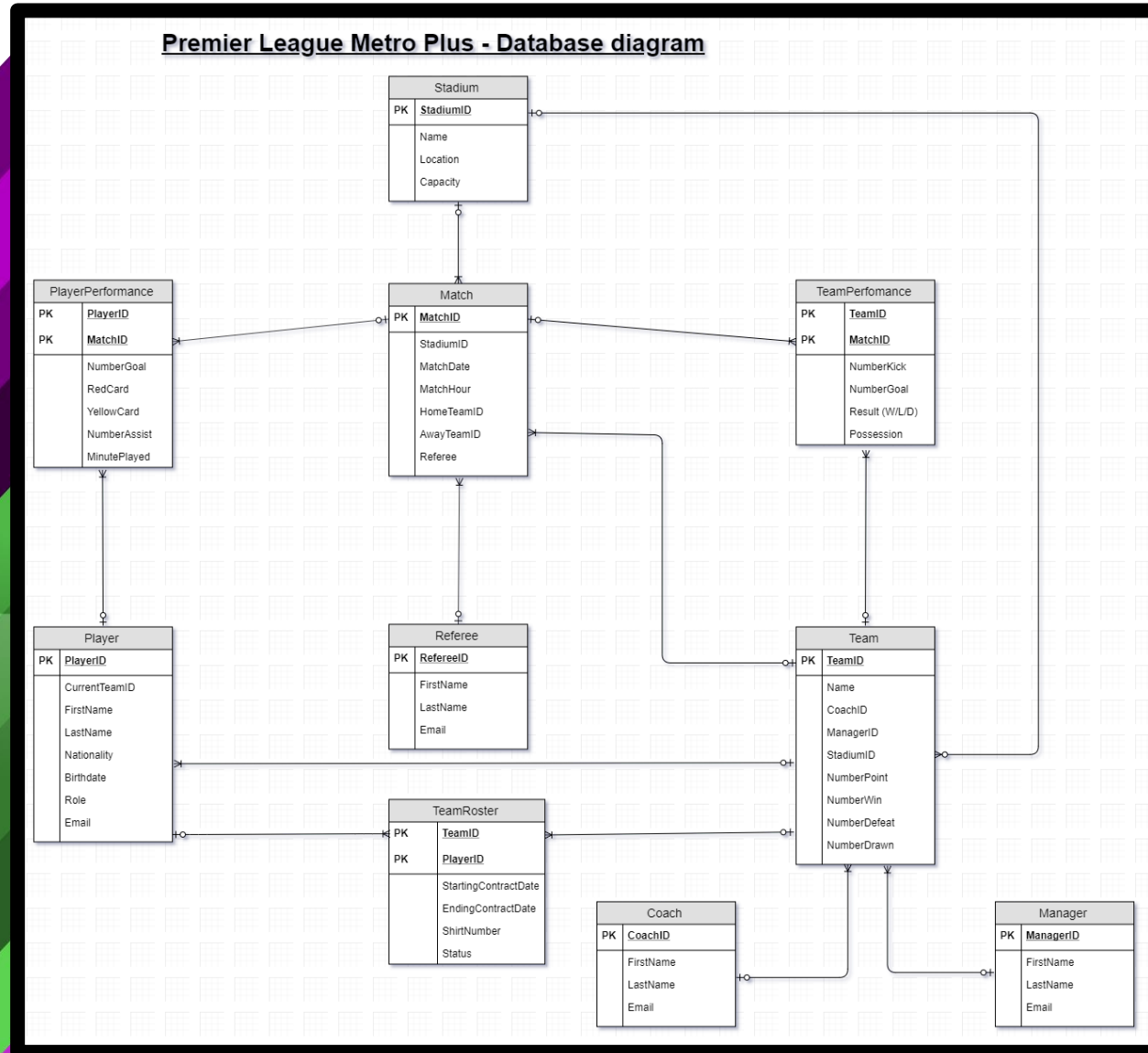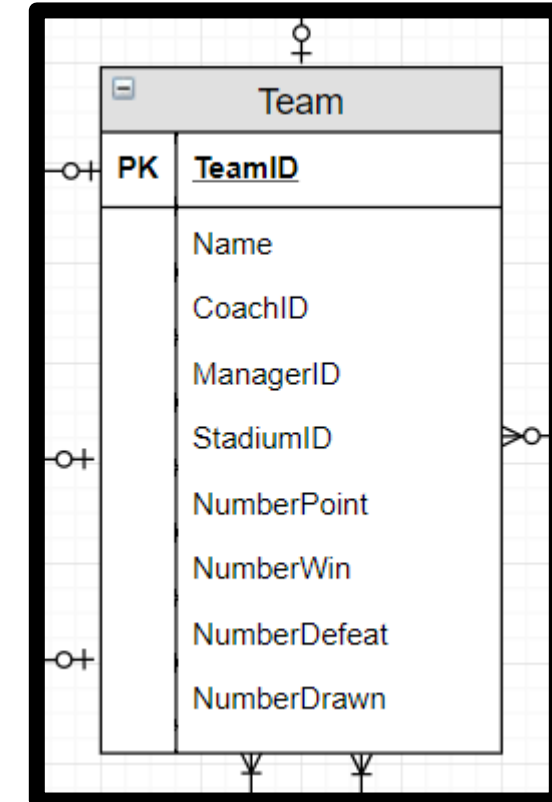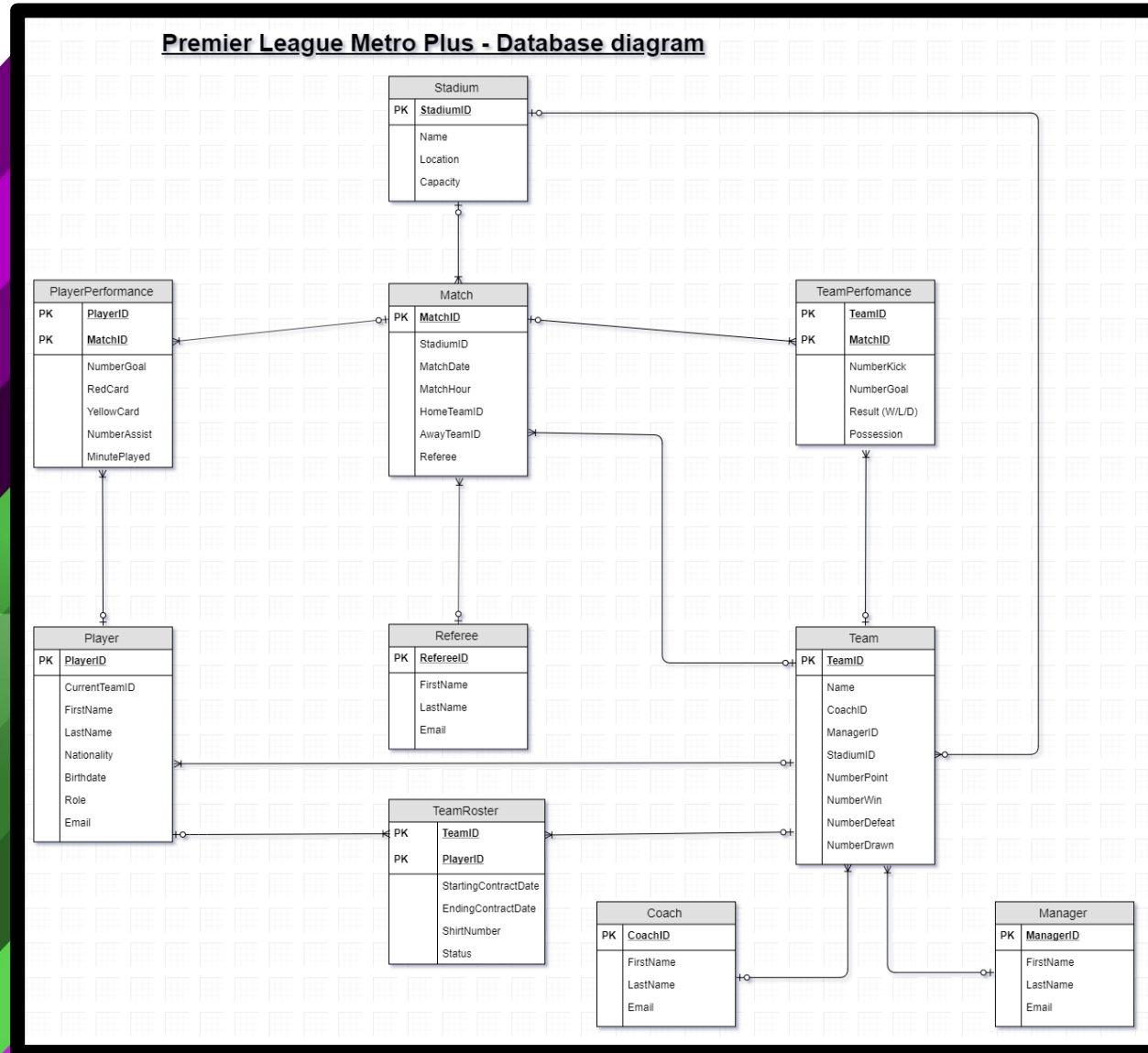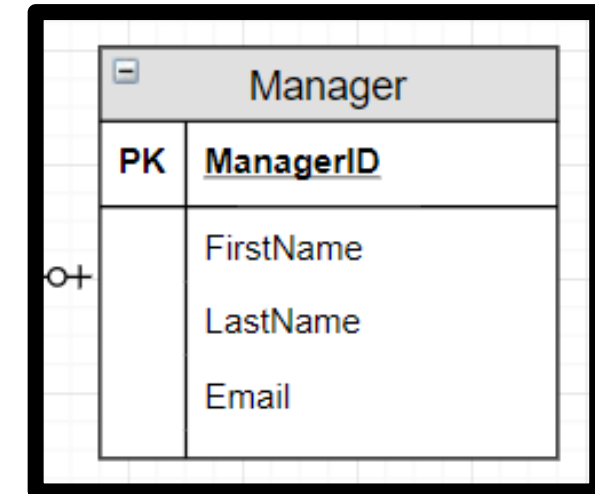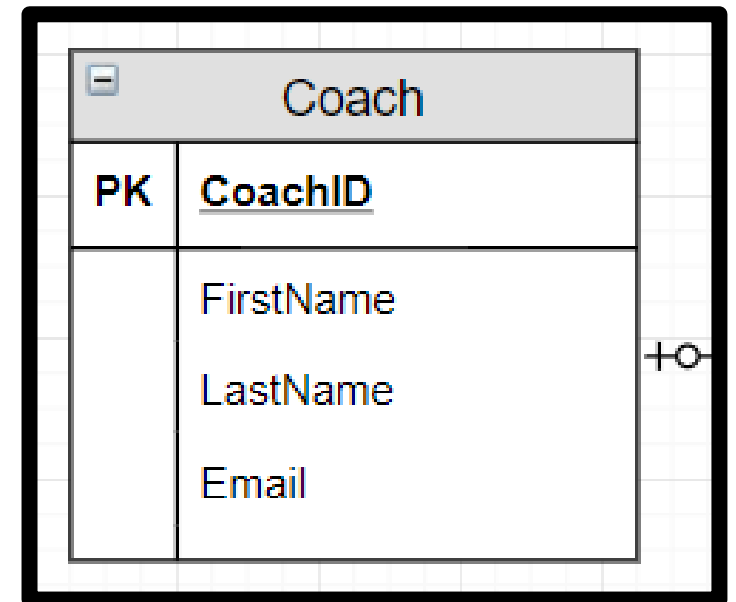
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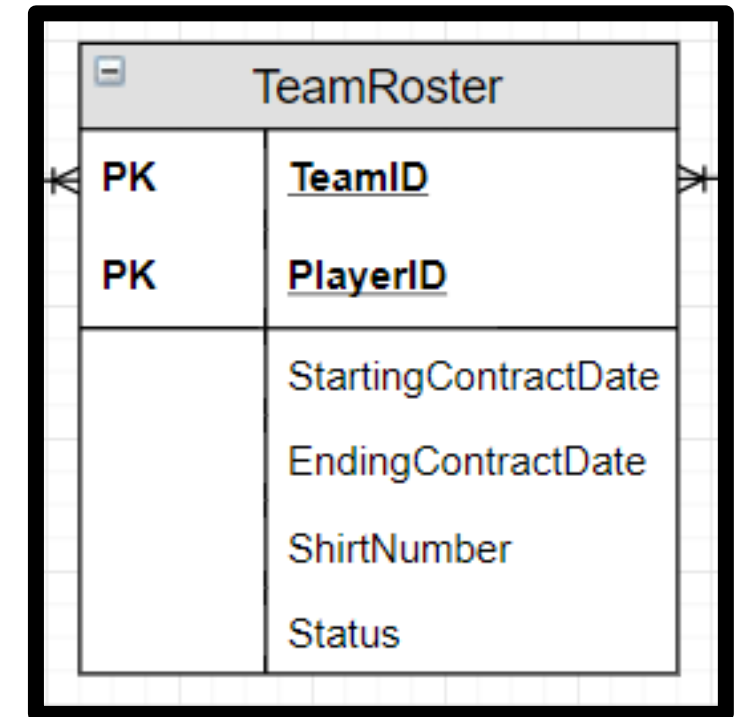
IV. Our queries

```sql
select top 1 with ties FirstName + ' ' +LastName as 'Name', Status, sum(NumberGoal)+ sum(NumberAssist) as 'Direcly induced goals', sum(MinutesPlayed) as 'Total minutes played'
from teamroster
join player on teamroster.PlayerID = player.ID
join PlayerPerformance on player.ID = PlayerPerformance.PlayerID
where ShirtNumber = 9
group by FirstName, LastName, Status
order by (sum(NumberGoal)+sum(NumberAssist)) desc;
```

The result:

	Name	Status	Direcly induced goals	Total minutes played
1	Anthony Martial	healthy	2	180

IV. Our queries

The code:

```sql
select h.Name as 'Home', a.Name as 'Away', MatchHour as 'Kick off', MatchDate as 'Date', FirstName + ' ' + LastName as 'Referee', StadiumName + ', ' + StadiumAddress as 'Stadium', City
from Match join Team as a on HomeTeamID=a.TeamID
join Team as h on AwayTeamID=h.TeamID
join Referee on RefereeID = Referee
join Stadium on Stadium.StadiumID = Match.StadiumID;
```

The result:

	Home	Away	Kick off	Date	Referee	Stadium	City
1	Norwich	Liverpool	15:00:00.0000000	2019-08-06	Michael Oliver	Anfield, Anfield Road	Liverpool
2	Manchester city	West Ham	07:30:00.0000000	2019-08-10	Mike Dean	London Stadium, Queen Elizabeth Olympic Park	London
3	Everton	Cristal Palace	10:00:00.0000000	2019-08-10	Kevin Friend	Selhurst Park, Holmesdale Road	London
4	Southampton	Burnley	10:00:00.0000000	2019-08-10	Graham Scott	Turf Moor, Harry Potts Way	Burnley
5	Brighton	Watford	10:00:00.0000000	2019-08-10	Jonathan Moss	Vicarage Road, Vicarage Road Stadium	Watford
6	Sheffield	Bournemouth	10:00:00.0000000	2019-08-10	Craig Pawson	Vitality Stadium, Dean Court	Bournemouth
7	Aston Villa	Tottenham	12:30:00.0000000	2019-08-10	Chris Kavanagh	Tottenham Hotspur Stadium, 782 High Road	London
8	Wolverhampton	Leicester	09:00:00.0000000	2019-08-11	Mike Dean	King Power Stadium, Filbert Way	Leicester
9	Arsenal	Newcastle	09:00:00.0000000	2019-08-11	Martin Atkinson	St.James Park, Strawberry Place	Newcastle Upon Tyne
10	Chelsea	Manchester United	11:30:00.0000000	2019-08-11	Anthony Taylor	Old Trafford, Old Trafford	Manchester
11	Burnley	Arsenal	07:30:00.0000000	2019-08-17	Mike Dean	Emirates Stadium, 75 Drayton Park	London
12	Liverpool	Southampton	10:00:00.0000000	2019-08-17	Martin Atkinson	St.Mary s Stadium, Britannia Road	Southampton
13	West Ham	Brighton	10:00:00.0000000	2019-08-17	Anthony Taylor	Amex Stadium, Village Way	Brighton
14	Watford	Everton	10:00:00.0000000	2019-08-17	Lee Mason	Goodison Park, Goodison Road	Liverpool
15	Newcastle	Norwich	10:00:00.0000000	2019-08-17	Stuart Attwell	Carrow Road, Carrow Road	Norwich
16	Southampton	Aston Villa	10:00:00.0000000	2019-08-17	Andre Marriner	Villa Park, Trinity Road	Birmingham
17	Tottenham	Manchester city	12:30:00.0000000	2019-08-17	Michael Oliver	Etihad Stadium, Etihad Campus	Manchester
18	Cristal Palace	Sheffield	09:00:00.0000000	2019-08-18	David Coote	Bramall Lane, Bramall Lane	Sheffield
19	Leicester	Chelsea	11:30:00.0000000	2019-08-18	Graham Scott	Stamford Bridge, Fulham Road	London
20	Manchester United	Wolverhampton	15:00:00.0000000	2019-08-19	Jonathan Moss	Molineux Stadium, Waterloo Rd	Wolverhampton

IV. Our queries

The code:

```sql
select h.TeamID,
sum(h.NumberGoal-a.NumberGoal) as 'GoalDiff' from TeamPerformance h
join TeamPerformance a on a.MatchID = h.MatchID
where a.TeamID != h.TeamID
group by h.TeamID

GO


create view Points as
select TeamID,
CASE
    WHEN Result = 'w' THEN 3
    WHEN Result = 'l' THEN 0
    WHEN Result = 'd' THEN 1
END as NbPoint
from TeamPerformance

GO


create view TotalPoints as
select TeamID, sum(NbPoint) as 'NbPoints' from Points
group by TeamID;

GO


create view RankingWithID as
select t.TeamID as 'TeamID', NbPoints as 'Points', GoalDiff as 'GoalDifference'
from TotalPoints t join GoalDifference g on  t.TeamID = g.TeamID;

GO


select Name as 'Team', Points, GoalDifference as 'Goal Difference'
from RankingWithID r join Team t on r.TeamID = t.TeamID
order by 2 desc, 3 desc;
```

The result:

	Team	Points	Goal Difference
1	Arsenal	6	2
2	Southampton	6	-3
3	Manchester city	4	5
4	Manchester United	4	4
5	Brighton	4	3
6	Tottenham	4	2
7	Everton	4	1
8	Sheffield	4	1
9	Liverpool	3	4
10	Burnley	3	2
11	Norwich	3	-1
12	Wolverhampton	2	0
13	Leicester	2	0
14	Bournemouth	1	0
15	Cristal Palace	1	-1
16	Chelsea	1	-4
17	West Ham	1	-5
18	Aston Villa	0	-3
19	Newcastle	0	-3
20	Watford	0	-4

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