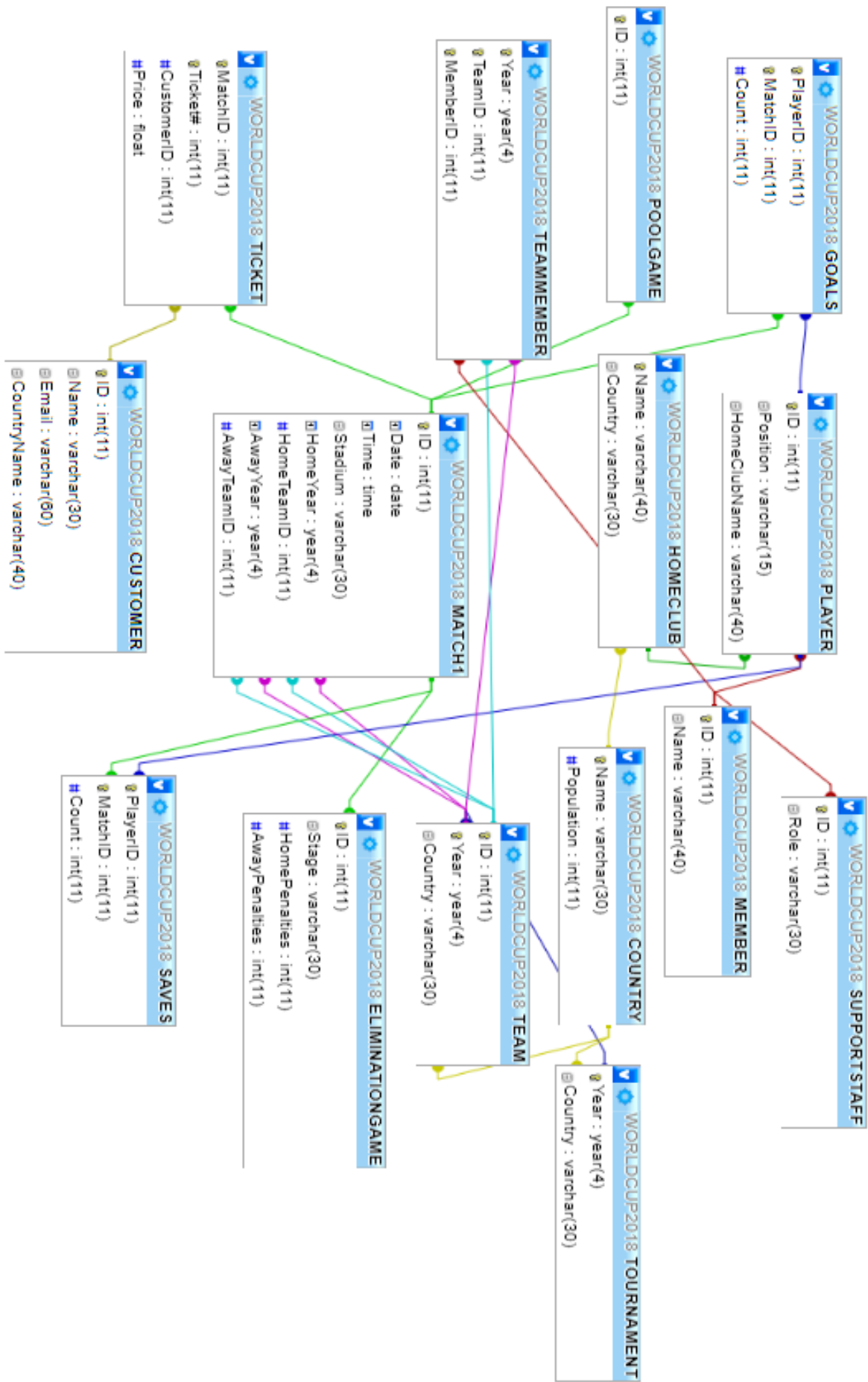Assignment 2

Nikhil Naik, 45293858

SCREENSHOT OF DESIGNER VIEW FROM PHPMYADMIN (You may put this in sideways if required)

WORLDCUP2018 GOALS
- ⓔ PlayerID : int(11)
- ⓔ MatchID : int(11)
- # Count : int(11)

WORLDCUP2018 POOLGAME
- ⓔ ID : int(11)

WORLDCUP2018 TEAMMEMBER
- ⓔ Year : year(4)
- ⓔ TeamID : int(11)
- ⓔ MemberID : int(11)

WORLDCUP2018 TICKET
- ⓔ MatchID : int(11)
- ⓔ Ticket# : int(11)
- # CustomerID : int(11)
- # Price : float

WORLDCUP2018 PLAYER
- ⓔ ID : int(11)
- ⓑ Position : varchar(15)
- ⓑ HomeClubName : varchar(40)

WORLDCUP2018 HOMECLUB
- ⓔ Name : varchar(40)
- ⓑ Country : varchar(30)

WORLDCUP2018 MATCH1
- ⓔ ID : int(11)
- ⊞ Date : date
- ⊞ Time : time
- ⓑ Stadium : varchar(30)
- ⊞ HomeYear : year(4)
- # HomeTeamID : int(11)
- ⊞ AwayYear : year(4)
- # AwayTeamID : int(11)

WORLDCUP2018 CUSTOMER
- ⓔ ID : int(11)
- ⓑ Name : varchar(30)
- ⓑ Email : varchar(60)
- ⓑ CountryName : varchar(40)

WORLDCUP2018 MEMBER
- ⓔ ID : int(11)
- ⓑ Name : varchar(40)

WORLDCUP2018 SUPPORTSTAFF
- ⓔ ID : int(11)
- ⓑ Role : varchar(30)

WORLDCUP2018 COUNTRY
- ⓔ Name : varchar(30)
- # Population : int(11)

WORLDCUP2018 TEAM
- ⓔ ID : int(11)
- ⓔ Year : year(4)
- ⓑ Country : varchar(30)

WORLDCUP2018 SAVES
- ⓔ PlayerID : int(11)
- ⓔ MatchID : int(11)
- # Count : int(11)

WORLDCUP2018 ELIMINATIONGAME
- ⓔ ID : int(11)
- ⓑ Stage : varchar(30)
- # HomePenalties : int(11)
- # AwayPenalties : int(11)

WORLDCUP2018 TOURNAMENT
- ⓔ Year : year(4)
- ⓑ Country : varchar(30)

Query 1: Find all the Australian Players that played in the 2018 World Cup

QUERY SQL

SELECT MEMBER.Name

FROM MEMBER, TEAM , PLAYER, TEAMMEMBER, TOURNAMENT

WHERE MEMBER.ID = PLAYER.ID AND TEAM.ID = TEAMMEMBER.TeamID AND MEMBER.ID = TEAMMEMBER.MemberID AND TEAM.Country = "Australia" AND TOURNAMENT.Year = TEAM.Year AND TOURNAMENT.Year = 2018

QUERY OUTPUT (SCREENSHOT)

✔ Showing rows 0 - 2 (3 total, Query took 0.0013 seconds.)

SELECT MEMBER.Name FROM MEMBER, TEAM , PLAYER, TEAMMEMBER, TOURNAMENT WHERE MEMBER.ID = PLAYER.ID AND TEAM.ID = TEAMMEMBER.TeamID AND MEMBER.ID = TEAMMEMBER.MemberID AND TEAM.Country = "Australia" AND TOURNAMENT.Year = TEAM.Year AND TOURNAMENT.Year = 2018

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table

+ Options
Name
Nikhil Naik
Robbie Kruse
Mitch Langerak

Query 2: Find the players that have never scored a goal

QUERY SQL

SELECT MEMBER.Name
FROM MEMBER, PLAYER
WHERE MEMBER.ID = PLAYER.ID AND PLAYER.ID NOT IN
                          (SELECT GOALS.PlayerID FROM GOALS   WHERE GOALS.Count > 0)

QUERY OUTPUT (SCREENSHOT)

✔ Showing rows 0 - 6 (7 total, Query took 0.0010 seconds.)

SELECT MEMBER.Name FROM MEMBER, PLAYER WHERE MEMBER.ID = PLAYER.ID AND PLAYER.ID NOT IN (SELECT GOALS.PlayerID FROM GOALS WHERE GOALS.Count > 0)

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▼   Filter rows: Search this table

+ Options

Name
Gianluigi Donnarumma
Marc Andre Ter Stegan
Hugo Llorris
David De Gea
Mitch Langerak
Thibaut Courtois
Sergio Romero

Query 3: Find all the pool games played by host countries

QUERY SQL

*Asumptions all previous existing world cup hosts

```
SELECT *
FROM MATCH1
WHERE MATCH1.ID IN (SELECT POOLGAME.ID
          FROM POOLGAME, MATCH1,TEAM
          WHERE POOLGAME.ID = MATCH1.ID AND MATCH1.HomeTeamID = TEAM.ID AND
TEAM.Country IN (SELECT TOURNAMENT.Country
                                            FROM TOURNAMENT)
          OR POOLGAME.ID = MATCH1.ID AND MATCH1.AwayTeamID = TEAM.ID AND
TEAM.Country IN (SELECT TOURNAMENT.Country
                                            FROM TOURNAMENT))
```

QUERY OUTPUT (SCREENSHOT)

✓ Showing rows 0 - 3 (4 total, Query took 0.0017 seconds.)

SELECT * FROM MATCH1 WHERE MATCH1.ID IN (SELECT POOLGAME.ID FROM POOLGAME, MATCH1,TEAM WHERE POOLGAME.ID = MATCH1.ID AND MATCH1.HomeTeamID = TEAM.ID AND TEAM.Country IN (SELECT TOURNAMENT.Country FROM TOURNAMENT) OR POOLGAME.ID = MATCH1.ID AND MATCH1.AwayTeamID = TEAM.ID AND TEAM.Country IN (SELECT TOURNAMENT.Country FROM TOURNAMENT))

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▼   Filter rows: Search this table   Sort by key: None ▼

+ Options

		ID	Date	Time	Stadium	HomeYear	HomeTeamID	AwayYear	AwayTeamID
☐	🖉 Edit ⅗ⅈ Copy ⊖ Delete	1	2018-10-01	19:00:00	Sydney	2018	1	2018	2
☐	🖉 Edit ⅗ⅈ Copy ⊖ Delete	2	2018-10-03	11:00:00	Melbourne	2018	9	2018	6
☐	🖉 Edit ⅗ⅈ Copy ⊖ Delete	3	2018-10-04	18:00:00	Perth	2018	7	2018	5
☐	🖉 Edit ⅗ⅈ Copy ⊖ Delete	5	2018-10-15	09:00:00	Brisbane	2018	9	2018	2

Query 4: Find all the Australian players linked to an English club team

QUERY SQL

SELECT MEMBER.Name
FROM MEMBER, PLAYER, HOMECLUB
WHERE MEMBER.ID = PLAYER.ID AND PLAYER.ID IN (SELECT MEMBER.ID
                                                                          FROM MEMBER, TEAM,
TEAMMEMBER
                                        WHERE MEMBER.ID = TEAMMEMBER.MemberID AND
TEAMMEMBER.TeamID = TEAM.ID AND TEAM.Country = 'Australia') AND PLAYER.HomeClubName =
HOMECLUB.Name AND HOMECLUB.Country = 'England'

QUERY OUTPUT (SCREENSHOT)

✔ Showing rows 0 - 0 (1 total, Query took 0.0015 seconds.)

SELECT MEMBER.Name FROM MEMBER, PLAYER, HOMECLUB WHERE MEMBER.ID = PLAYER.ID AND PLAYER.ID IN (SELECT MEMBER.ID FROM MEMBER, TEAM, TEAMMEMBER WHERE MEMBER.ID = TEAMMEMBER.MemberID AND
TEAMMEMBER.TeamID = TEAM.ID AND TEAM.Country = 'Australia') AND PLAYER.HomeClubName = HOMECLUB.Name AND HOMECLUB.Country = 'England'

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▼ | Filter rows: Search this table

+ Options

Name
Mitch Langerak

Query 5: Rank the teams by the number of support staff attending the 2018 World Cup

QUERY SQL

```
SELECT TEAM.Country, COUNT(SUPPORTSTAFF.ID)
FROM TEAM, SUPPORTSTAFF, TEAMMEMBER
WHERE SUPPORTSTAFF.ID = TEAMMEMBER.MemberID AND TEAM.ID = TEAMMEMBER.TeamID
GROUP BY TEAM.Country
ORDER BY COUNT(SUPPORTSTAFF.ID) DESC
```

QUERY OUTPUT (SCREENSHOT)

✔ Showing rows 0 - 4 (5 total, Query took 0.0010 seconds.)

SELECT TEAM.Country, COUNT(SUPPORTSTAFF.ID) FROM TEAM, SUPPORTSTAFF, TEAMMEMBER WHERE SUPPORTSTAFF.ID = TEAMMEMBER.MemberID AND TEAM.ID = TEAMMEMBER.TeamID GROUP BY TEAM.Country ORDER BY COUNT(SUPPORTSTAFF.ID) DESC

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table

+ Options

Country	COUNT(SUPPORTSTAFF.ID)
Argentina	5
Germany	5
Australia	2
France	1
Italy	1

Query 6: Find the names & number of goals saved by all players

QUERY SQL

SELECT MEMBER.Name,SUM(SAVES.Count)
FROM MEMBER, SAVES
WHERE MEMBER.ID = SAVES.PlayerID
GROUP BY MEMBER.Name

QUERY OUTPUT (SCREENSHOT)

✔ Showing rows 0 - 6 (7 total, Query took 0.0009 seconds.)

SELECT MEMBER.Name,SUM(SAVES.Count) FROM MEMBER, SAVES WHERE MEMBER.ID = SAVES.PlayerID GROUP BY MEMBER.Name

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▼ | Filter rows: Search this table

+ Options

Name	SUM(SAVES.Count)
David De Gea	11
Gianluigi Donnarumma	3
Hugo Llorris	6
Marc Andre Ter Stegan	22
Nikhil Naik	12
Sergio Romero	1
Thibaut Courtois	10

Query 7: Find the game that sold the most tickets

QUERY SQL

SELECT *

FROM MATCH1

WHERE MATCH1.ID =

(SELECT TICKET.MatchID

FROM TICKET

GROUP BY TICKET.MatchID

ORDER BY COUNT(*) DESC LIMIT 1)

QUERY OUTPUT (SCREENSHOT)

✔ Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

SELECT * FROM MATCH1 WHERE MATCH1.ID = (SELECT TICKET.MatchID FROM TICKET GROUP BY TICKET.MatchID ORDER BY COUNT(*) DESC LIMIT 1)

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾   Filter rows: Search this table

+ Options

←T→		ID	Date	Time	Stadium	HomeYear	HomeTeamID	AwayYear	AwayTeamID
☐ 🖉 Edit 📋 Copy ⊖ Delete		6	2018-10-17	16:00:00	Adelaide	2018	7	2018	2

Query 8: Find the player who scored the most goals in elimination games

QUERY SQL

SELECT MEMBER.Name
FROM MEMBER, PLAYER, GOALS,MATCH1, ELIMINATIONGAME
WHERE GOALS.MatchID = MATCH1.ID AND MATCH1.ID = ELIMINATIONGAME.ID AND GOALS.PlayerID =
PLAYER.ID AND PLAYER.ID = MEMBER.ID
GROUP BY GOALS.PlayerID
ORDER BY SUM(GOALS.Count) DESC LIMIT 1

QUERY OUTPUT (SCREENSHOT)

✔ Showing rows 0 - 0 (1 total, Query took 0.0014 seconds.)

SELECT MEMBER.Name FROM MEMBER, PLAYER, GOALS,MATCH1, ELIMINATIONGAME WHERE GOALS.MatchID = MATCH1.ID AND MATCH1.ID = ELIMINATIONGAME.ID AND GOALS.PlayerID = PLAYER.ID AND PLAYER.ID =
MEMBER.ID GROUP BY GOALS.PlayerID ORDER BY SUM(GOALS.Count) DESC LIMIT 1

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

+ Options

Name
Antoine Griezmann

Query 9: Find countries that have played in all World Cups

QUERY SQL

SELECT TEAM.Country
FROM TEAM
WHERE TEAM.Year IN (SELECT TOURNAMENT.Year
          FROM TOURNAMENT)
GROUP BY TEAM.Country
HAVING COUNT(TEAM.Country) = (SELECT COUNT(TOURNAMENT.Year) FROM TOURNAMENT)

QUERY OUTPUT (SCREENSHOT)

✔ Showing rows 0 - 1 (2 total, Query took 0.0009 seconds.)

SELECT TEAM.Country FROM TEAM WHERE TEAM.Year IN (SELECT TOURNAMENT.Year FROM TOURNAMENT) GROUP BY TEAM.Country HAVING COUNT(TEAM.Country) = (SELECT COUNT(TOURNAMENT.Year) FROM TOURNAMENT)

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▼ | Filter rows: Search this table | Sort by key: None ▼

+ Options

Country
Argentina
Germany

Query 10: Find players who have scored goals in all of Iceland's games

QUERY SQL

SELECT DISTINCT MEMBER.Name
FROM TEAMMEMBER, TEAM, MATCH1,MEMBER, GOALS
WHERE TEAM.Country = 'Iceland' AND TEAM.ID = TEAMMEMBER.TeamID AND MEMBER.ID =
TEAMMEMBER.MemberID AND GOALS.PlayerID = TEAMMEMBER.MemberID AND MATCH1.ID =
GOALS.MatchID
HAVING COUNT(GOALS.Count) = COUNT(MATCH1.ID)

QUERY OUTPUT (SCREENSHOT)

✔ Showing rows 0 - 0 (1 total, Query took 0.0012 seconds.)

SELECT DISTINCT MEMBER.Name FROM TEAMMEMBER, TEAM, MATCH1,MEMBER, GOALS WHERE TEAM.Country = 'Iceland' AND TEAM.ID = TEAMMEMBER.TeamID AND MEMBER.ID = TEAMMEMBER.MemberID AND
GOALS.PlayerID = TEAMMEMBER.MemberID AND MATCH1.ID = GOALS.MatchID HAVING COUNT(GOALS.Count) = COUNT(MATCH1.ID)

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table

+ Options

Name

Gylfi Sigurdsson