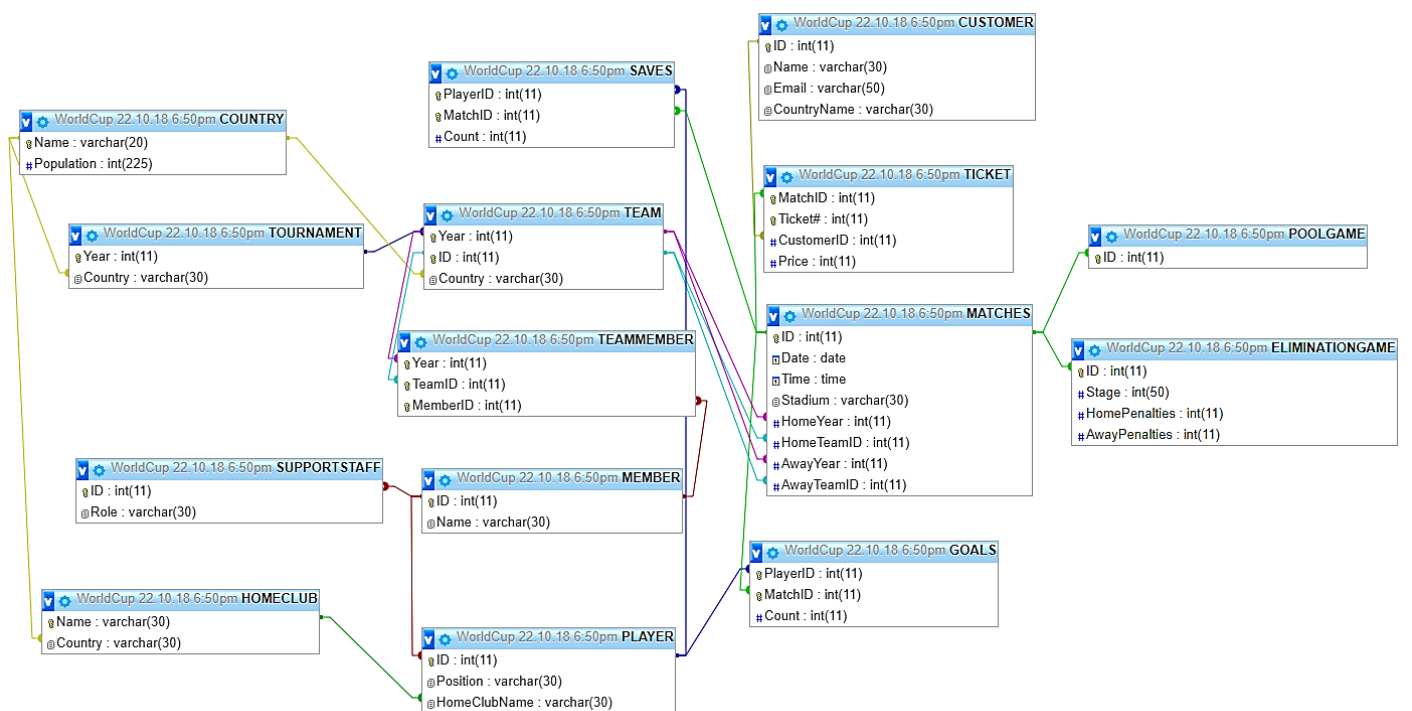


INFS1200 Assignment 2

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



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

QUERY SQL

```
SELECT ID
FROM MEMBER
WHERE ID IN
    (SELECT MemberID
     FROM TEAMMEMBER
     WHERE TeamID IN
         (SELECT TeamID
          FROM TEAM
          WHERE Country = "Australia" AND Year = 2018));
```

QUERY OUTPUT (SCREENSHOT)

| ←T→ | | | | ID |
|--------------------------|--|--|--|----|
| <input type="checkbox"/> | | | | 1 |
| <input type="checkbox"/> | | | | 2 |
| <input type="checkbox"/> | | | | 3 |
| <input type="checkbox"/> | | | | 4 |
| <input type="checkbox"/> | | | | 5 |
| <input type="checkbox"/> | | | | 6 |
| <input type="checkbox"/> | | | | 7 |
| <input type="checkbox"/> | | | | 8 |
| <input type="checkbox"/> | | | | 9 |
| <input type="checkbox"/> | | | | 10 |
| <input type="checkbox"/> | | | | 11 |
| <input type="checkbox"/> | | | | 12 |
| <input type="checkbox"/> | | | | 13 |
| <input type="checkbox"/> | | | | 14 |
| <input type="checkbox"/> | | | | 15 |
| <input type="checkbox"/> | | | | 16 |
| <input type="checkbox"/> | | | | 17 |
| <input type="checkbox"/> | | | | 18 |
| <input type="checkbox"/> | | | | 19 |
| <input type="checkbox"/> | | | | 20 |
| <input type="checkbox"/> | | | | 21 |
| <input type="checkbox"/> | | | | 22 |
| <input type="checkbox"/> | | | | 23 |
| <input type="checkbox"/> | | | | 24 |
| <input type="checkbox"/> | | | | 25 |







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

QUERY SQL

```
SELECT *  
FROM PLAYER P  
WHERE P.ID NOT IN (SELECT GOALS.PlayerID  
                   FROM GOALS);
```

QUERY OUTPUT (SCREENSHOT)

Options

| | | | | ID | Position | HomeClubName |
|--------------------------|--|--|--|----|-----------------|--------------|
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 7 | GoalKeeper | AusClub |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 10 | Centre midfield | English Club |

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

QUERY SQL

```
SELECT MATCHES.*  
FROM POOLGAME, MATCHES, TOURNAMENT, TEAM  
WHERE POOLGAME.ID = MATCHES.ID  
AND MATCHES.HomeYear = TOURNAMENT.Year  
AND (TEAM.ID = MATCHES.HomeTeamID OR TEAM.ID = MATCHES.AwayTeamID)  
AND TEAM.Country = TOURNAMENT.Country
```

QUERY OUTPUT (SCREENSHOT)

| ←T→ | | ID | Date | Time | Stadium | HomeYear | HomeTeamID | AwayYear | AwayTeamID |
|--------------------------|------------------|----|------------|----------|---------------------|----------|------------|----------|------------|
| <input type="checkbox"/> | Edit Copy Delete | 3 | 1998-12-07 | 16:30:00 | Nantes | 1998 | 21 | 1998 | 22 |
| <input type="checkbox"/> | Edit Copy Delete | 4 | 2002-05-31 | 17:30:00 | Nagai Stadium | 2002 | 27 | 2002 | 30 |
| <input type="checkbox"/> | Edit Copy Delete | 5 | 2006-09-08 | 18:00:00 | RheinEnergieStadion | 2006 | 39 | 2006 | 40 |

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

QUERY SQL

```
SELECT *
FROM PLAYER P, TEAMMEMBER M
WHERE P.ID = M.MemberID
AND M.TeamID IN
    (SELECT DISTINCT TEAM.ID
     FROM TEAM
     WHERE TEAM.Country = 'Australia')
AND P.HomeClubName IN (SELECT HOMECLUB.Name
                        FROM HOMECLUB
                        WHERE HOMECLUB.Country = 'England');
```

QUERY OUTPUT (SCREENSHOT)

+ Options

| ID | Position | HomeClubName | Year | TeamID | MemberID |
|----|--------------------|---------------|------|--------|----------|
| 11 | Attacking midfield | English Club | 1998 | 3 | 11 |
| 15 | GoalKeeper | English Club2 | 1998 | 3 | 15 |

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

QUERY SQL

```
SELECT TEAM.*, COUNT(SUPPORTSTAFF.ID)
FROM TEAMMEMBER, SUPPORTSTAFF, TEAM
WHERE TEAMMEMBER.Year = 2018
AND TEAMMEMBER.MemberID = SUPPORTSTAFF.ID
AND TEAMMEMBER.TeamID = TEAM.ID
GROUP BY TEAM. Country
ORDER BY (COUNT(SUPPORTSTAFF.ID)) DESC
```

QUERY OUTPUT (SCREENSHOT)

| Year | ID | Country | COUNT(SUPPORTSTAFF.ID) |
|------|----|---------|------------------------|
| 2018 | 8 | Russia | 5 |
| 2018 | 61 | Belgium | 1 |

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

QUERY SQL

```
SELECT MEMBER.Name, SUM(SAVES.Count)
FROM PLAYER, MEMBER, SAVES
WHERE SAVES.PlayerID = PLAYER.ID
AND PLAYER.ID = MEMBER.ID
GROUP BY SAVES.PlayerID
ORDER BY SUM(SAVES.Count) DESC;
```

QUERY OUTPUT (SCREENSHOT)

+ Options

| Name | SUM(SAVES.Count) | | |
|-----------------------|------------------|----------------------|---|
| Tom Cranitch | 12 | Ben Donlan | 2 |
| Kenton Lam | 10 | Joel Robinson | 2 |
| John Zhao | 10 | Alex Fujitani-Pearce | 2 |
| Jay Brown | 5 | Geoffery Datson | 2 |
| Connor Sharpe | 5 | James Dearlove | 2 |
| Kaito Tagawa | 4 | Rabih Halik | 1 |
| Michael Haynes-Lovell | 4 | Bhanu Gahlot | 1 |
| Preston Howes | 4 | Guillaume Clarens | 1 |
| Roy Browning | 3 | Hamish Bultitude | 0 |
| | | Corn Jones | 0 |

Query 7: Find the game that sold the most tickets

QUERY SQL

```
SELECT MatchID, COUNT(TICKET.`Ticket#`)
FROM TICKET
GROUP BY TICKET.MatchID
HAVING COUNT(TICKET.`Ticket#`) >= ALL(SELECT COUNT(TICKET.`Ticket#`)
                                         FROM TICKET
                                         GROUP BY TICKET.MatchID);
```

QUERY OUTPUT (SCREENSHOT)

| MatchID | COUNT(TICKET.`Ticket#`) |
|---------|-------------------------|
| 2 | 2 |

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

QUERY SQL

```
SELECT PlayerID, Count
FROM GOALS G
GROUP BY G.MatchID
HAVING G.Count >= All(SELECT G.Count
                        FROM GOALS G, ELIMINATIONGAME E
                        WHERE G.MatchID = E.ID
                        GROUP BY G.PlayerID);
```

QUERY OUTPUT (SCREENSHOT)

| PlayerID | Count |
|----------|-------|
| 14 | 8 |

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

QUERY SQL

```
SELECT Name
FROM COUNTRY C
WHERE NOT EXISTS (
    SELECT T.Year
    FROM TOURNAMENT T
    WHERE NOT EXISTS (
        SELECT TE.Year
        FROM TEAM TE
        WHERE TE.Year = T.Year AND TE.Country = C.Name));
```

QUERY OUTPUT (SCREENSHOT)

| Name |
|-----------|
| Australia |
| Belgium |
| Brazil |
| Portugal |
| Russia |

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

QUERY SQL

```
SELECT P.*  
FROM PLAYER P, GOALS, MATCHES, TEAM, COUNTRY  
WHERE P.ID = GOALS.PlayerID  
AND GOALS.MatchID = MATCHES.ID  
AND (MATCHES.HomeTeamID = TEAM.ID OR MATCHES.AwayTeamID = TEAM.ID)  
And TEAM.Country = COUNTRY.Name  
AND COUNTRY.Name = "Iceland";
```

QUERY OUTPUT (SCREENSHOT)

+ Options

| | | | | ID | Position | HomeClubName |
|--------------------------|--|--|--|----|----------|--------------|
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 17 | Sweeper | IceClub |