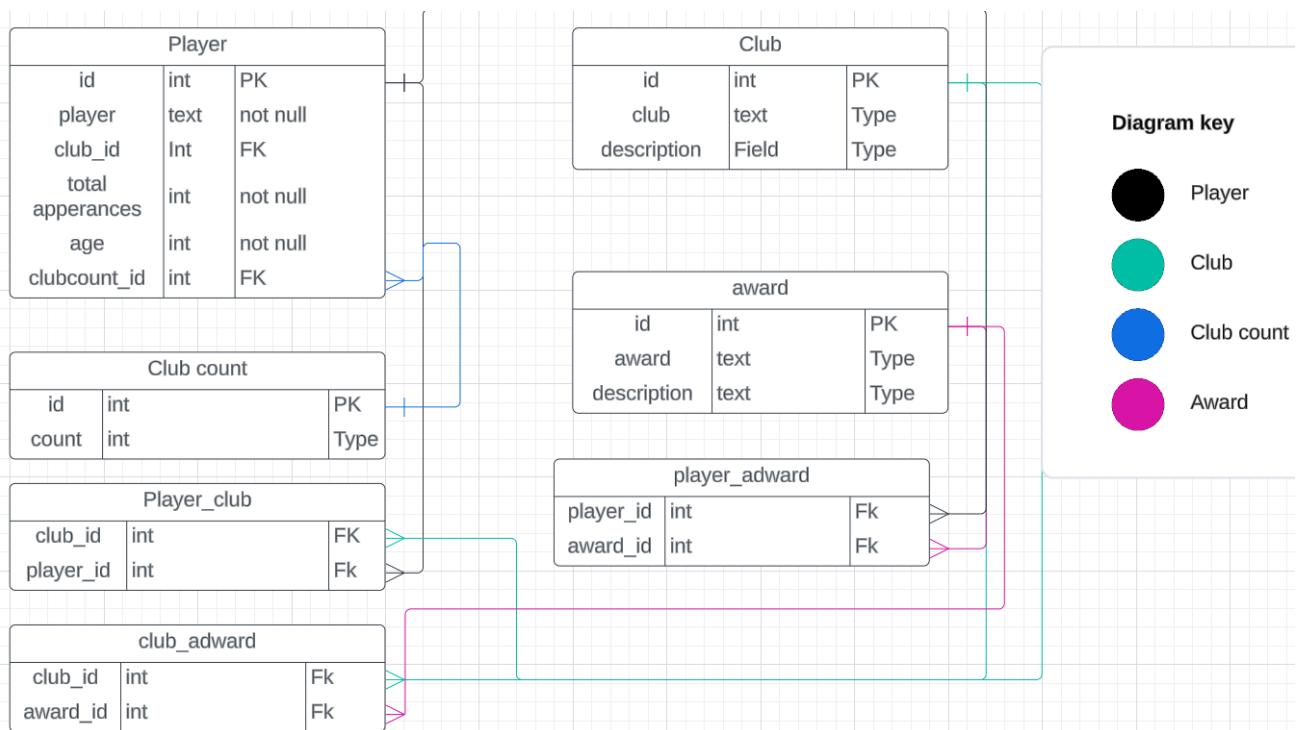


FOOTBALL DATABASE

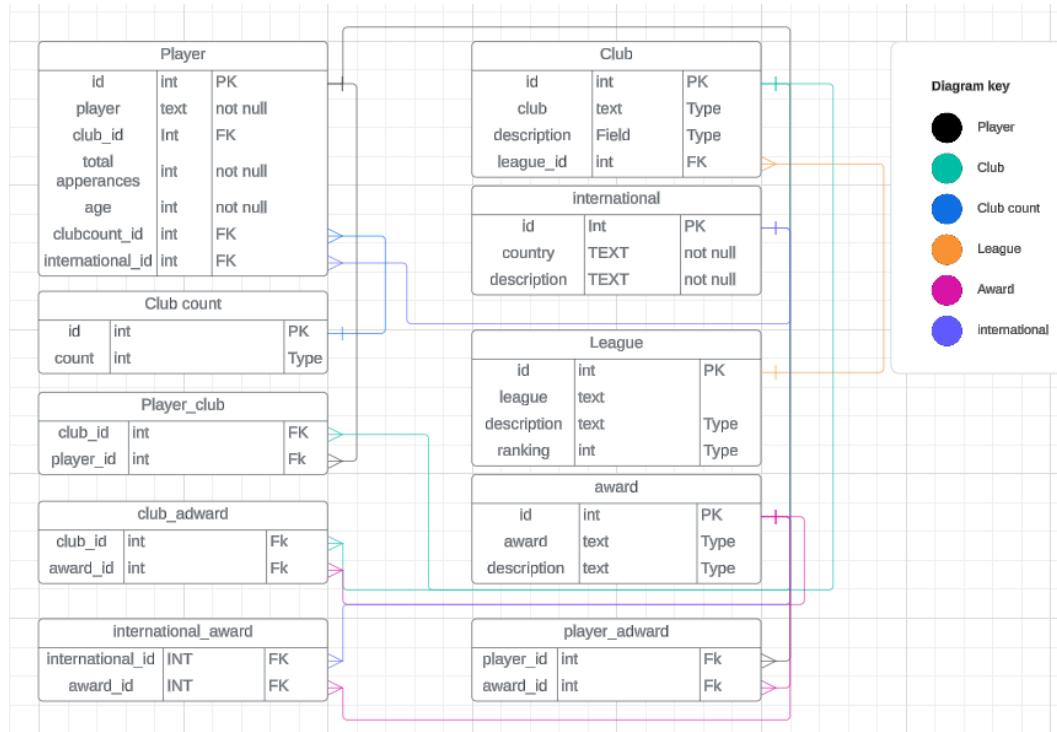
Planning

ER DIAGRAMS

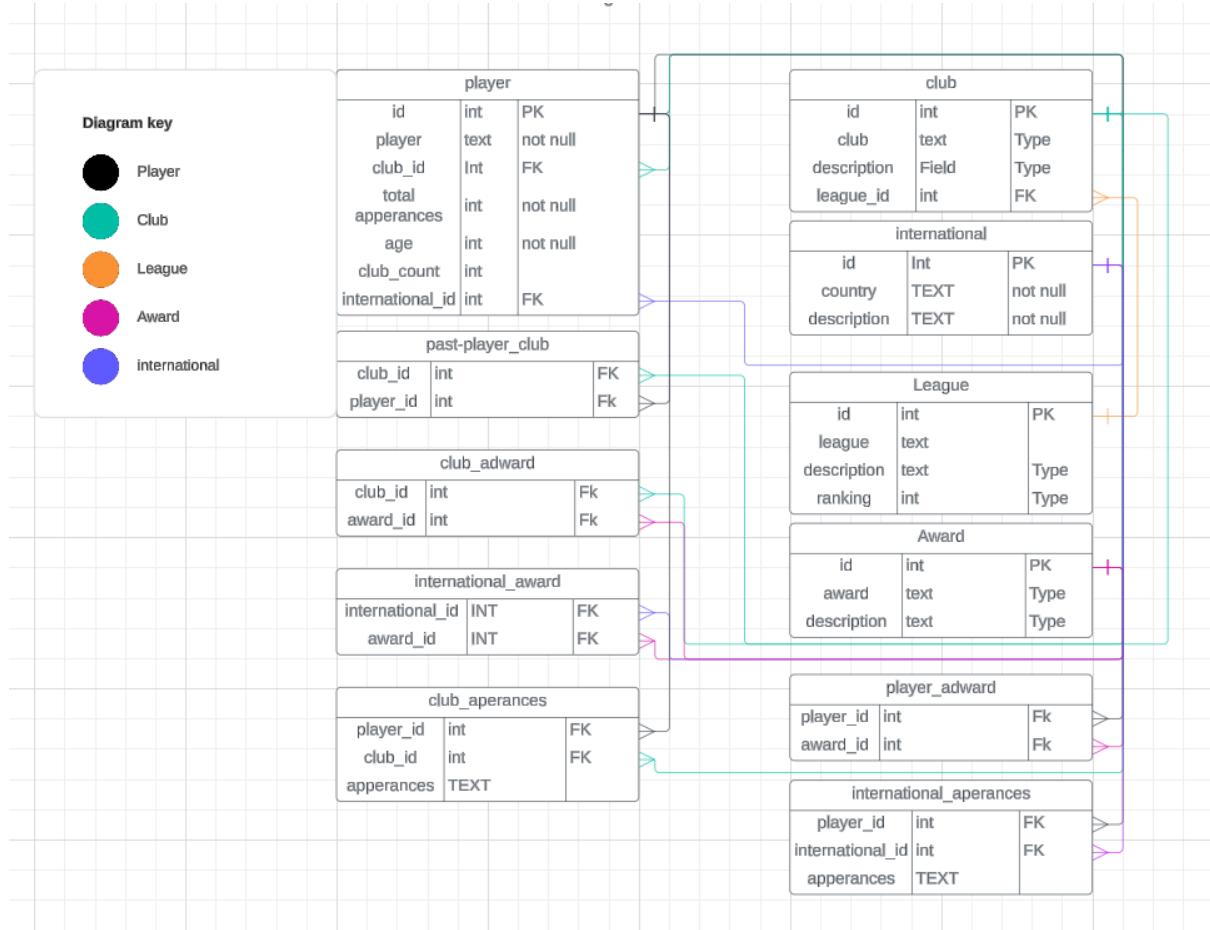
1



2



3



WEBSITE EXPLANATION

On my website the user will be able to find out all players at a club or all the clubs a player has played for. It can also tell you what league that club is in and its current ranking. It will also be able to tell you what awards each player and team has with a description included. It will also be able to tell you the total number of appearances that player has along with their current age. It can also tell you the amount of international trophies each country has won along with what country each player plays for.

COLOUR PALETTE



FONTS

Headers:

<https://fonts.google.com/specimen/Playfair+Display?preview.text=TEST%20TEST%20TEST%20123>

Paragraphs:

<https://fonts.google.com/specimen/Oxygen?preview.text=TEST%20TEST%20TEST%20123>

Navbar:

<https://fonts.google.com/specimen/Kaushan+Script?preview.text=TEST%20TEST%20TEST%20123&classification=Handwriting>

CODE:

```
/* Sets up Custom font */
@font-face {
    font-family: 'Playfair Display';
    /* Imports font from URL */
    src: url(/static/Fonts/Playfair_Display/PlayfairDisplay-VariableFont_wght.ttf);
}
```

WEBSITE MOCK-UP

HOME PAGE

Nav bar/ Player Club International Awards

Hero/banner

Home page with stuff about what the website can do such as display the past clubs a player has played for

After going into a page it will have a new navbar about things more in depth about the page with a home icon to escape back to the main menu. Submit boxes will be used to help navigate through the website such as inputting a player name to find out what clubs they have played for.

CLUB PAGE AS AN EXAMPLE

**Home club players club awards previous club
players**

general info about what a football club is.

**Submit box asking for a club name and will
display information about that club and what
league they are currently in**

Extra drop down nav bar is an option too

BASIC WEBSITE PRINTING CODE

PYTHON

```
@app.route('/players')
def topping():
    db=sqlite3.connect(DATABASE)
    cursor=db.cursor()
    sql='SELECT * FROM Players'
    cursor.execute(sql)
    results=cursor.fetchall()
    return render_template(playerss.html',results=results)
```

HTML

```
{% extends 'layout.html' %}  
{% block content %}  
{%for player in results%}  
    {{player[1]}}  
      
{% endfor %}  
{%endblock%}
```

SQL STATEMENTS

(Also saved as views in database file)

Player club appearance

```
SELECT Player.player, Club.club, club_appearances.appearance FROM club_appearances  
INNER JOIN Player ON club_appearances.player_id = Player.player_id INNER JOIN  
Club ON club_appearances.club_id = Club.club_id
```

player international appearances

```
SELECT Player.player, International.country, international_appearances.appearances  
FROM international_appearances INNER JOIN Player ON  
international_appearances.player_id = Player.player_id INNER JOIN International ON  
international_appearances.international_id = International.international_id
```

Player award

```
SELECT award.award, Player.player FROM Player_Award INNER JOIN award on  
Player_Award.award_id = award.award_id INNER JOIN Player ON  
Player_Award.player_id = Player.player_id
```

Past player clubs

```
SELECT Player.player, Club.club FROM past_player_club INNER JOIN Player ON  
past_player_club.player_id = Player.player_id INNER JOIN Club on  
past_player_club.club_id = Club.club_id
```

international award

```
SELECT award.award, International.country FROM International_Award INNER JOIN  
award on International_Award.award_id = award.award_id INNER JOIN International  
ON International_Award.international_id = International.international_id
```

club award

```
SELECT award.award, Club.club FROM Club_Award INNER JOIN award on  
Club_Award.award_id = award.award_id INNER JOIN Club ON Club_Award.club_id =  
Club.club_id
```

Dos commands

H: changes to h drive

cd blah change into the blah directory/folder

cd .. go up one level

dir directory listing

cd \ change to root

git commit commits changes to git

git push pushes commits to github

DATA MANAGEMENT

Templates are separated into categories based on what sub heading they are in so pages that you get to from the HOME page will be in the home folder inside templates and if it is from awards it will go in the awards folder inside of templates. Photos will be categorised based on what they are for such as players, club emblems or trophies. CSS files will be named after what section of the website they are used for such as players.css or international.css.

JUSTIFICATION

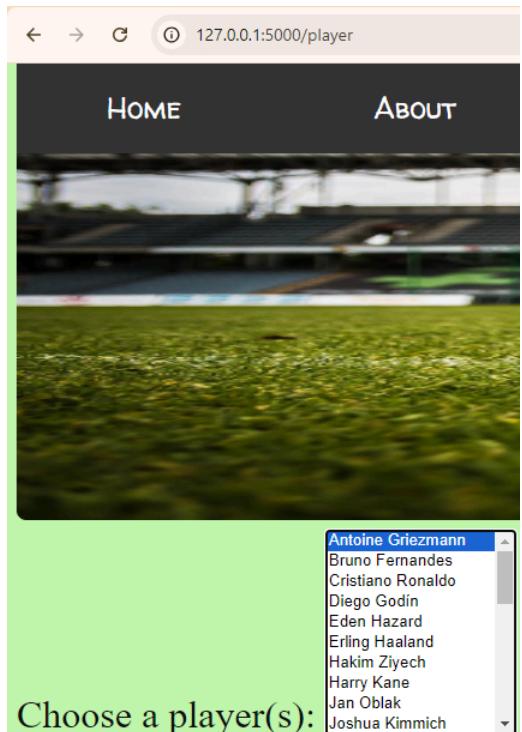
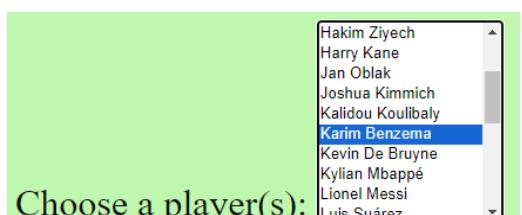
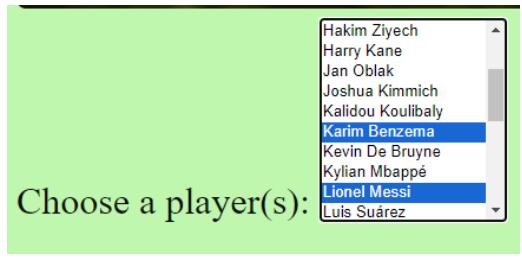
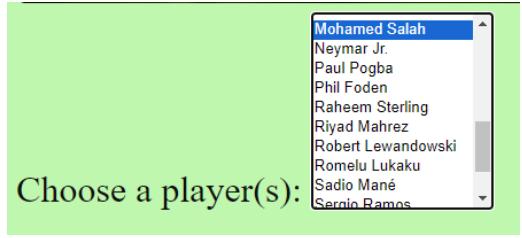
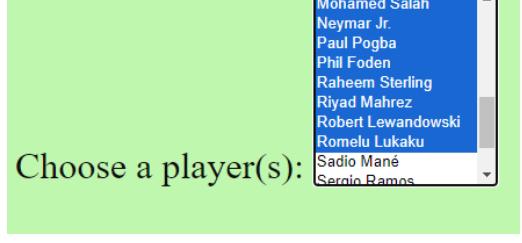
The design of my website follows standard conventions of having a navbar at the top of the screen that sticks with the page, then having a home button means anyone can exit the page they are on. Also having the nav bar change is justifiable as other websites do use this and the dropdown option for the home page also fits standard regulations. The information I am displaying is all public, not private. My website is displaying information that a footballer would want to know like what teams are in a certain competition or what clubs have won a league. This is justifiable layout as this is what the [Premier League](#) website uses as well with drop down navbar links.

TESTING

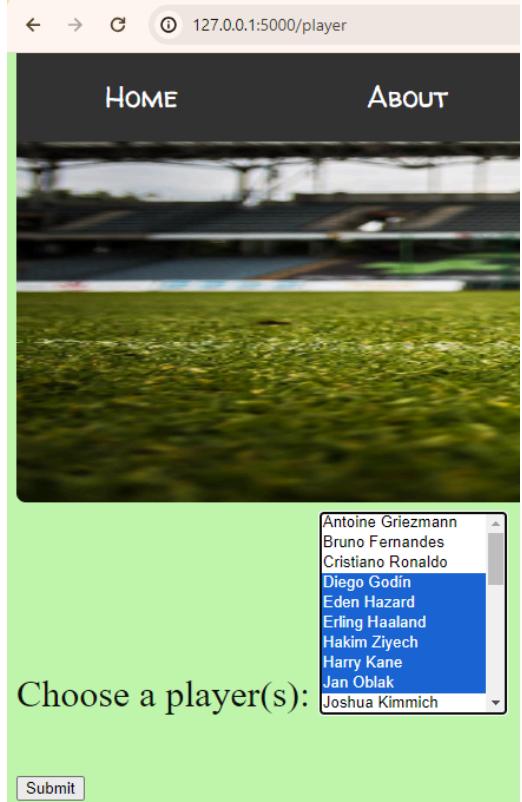
WHAT	HOW	EXPECT	GET	P/F/notes
------	-----	--------	-----	-----------

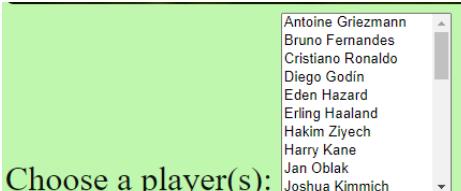
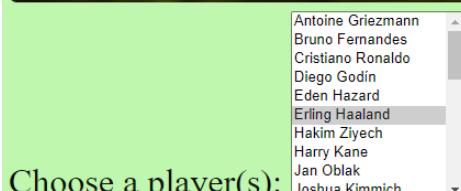
Home page	Click on the home page option	Should be taken to home page		P
-----------	-------------------------------	------------------------------	--	---

			<p>Welcome to Football Stats!</p> <p>Content</p> <p>Football Stats is website all about football statistics in particular about player, club and international awards. The database is up to date with 2023-2024 season containing 30 countries, 40 players and 130 clubs.</p> <p>How to use</p> <p>On different pages you will see a selection box, you are able to scroll through and select an item you would want to know more information about then submit and the selected item will be shown. To reset the page click submit with nothing selected. If you would like to choose multiple then use control + click and control shift click to select a group.</p> <p><small>Copyright © 2024 Football Stats. All rights reserved. This is a free template provided by Football Stats.</small></p>	
Dropdown player menu	Hover over the player on the nav bar	which should display a dropdown menu with more pages	<p>On my website I will be able to find out all players at a club</p>	P
Dropdown menu navigation	Hover over navbar and click on the player clubs tab	Taken to player clubs webpage	<p>PLAYERS</p> <p>PLAYERS</p> <p>PLAYER AWARDS</p> <p>PLAYER CLUBS</p> <p>INTERNATIONAL APPERANCES</p> <p>Al-Ahli</p> <p>Riyad Mahrez</p> <p>Saudi Arabia</p> <p>Appearances</p>	P

Player selection box	Click on a player	Should highlight blue		P
Multi player selection	Click on one player then ctrl + click on the next	Should have one highlight blue then the next one click should highlight blue	 	P
Bulk selection box	Click on one the control shift click on the next	Should highlight the first one in blue then all the rest in between the two click	 	P

Blank submit	Have nothing selected and press submit	After click the website should remain the same		P
Single player submit	Select one player then click submit	Click on a player in the box then submit	 	P
Multiplayer submit	Select one player then another with control, the submit	Both player should show up in alphabetical order	 	P

				
Bulk player submit	Use bulk selection method then press submit	Full list of players selected should show up in alphabetical order	 <p>Choose a player(s):</p> <ul style="list-style-type: none"> Antoine Griezmann Bruno Fernandes Cristiano Ronaldo Diego Godin Eden Hazard Erling Haaland Hakim Ziyech Harry Kane Jan Oblak Joshua Kimmich <p>Submit</p>	P

Player awards page	Click on player awards in dropdown menu	For each trophy list the amount of times a player has won it (if they had) sorted by amount then alphabetical	  <table border="1"> <thead> <tr> <th>Player</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>Eden Hazard</td> <td>2</td> </tr> <tr> <td>Antoine Griezmann</td> <td>1</td> </tr> <tr> <td>Jan Oblak</td> <td>1</td> </tr> </tbody> </table>	Player	Count	Eden Hazard	2	Antoine Griezmann	1	Jan Oblak	1	P												
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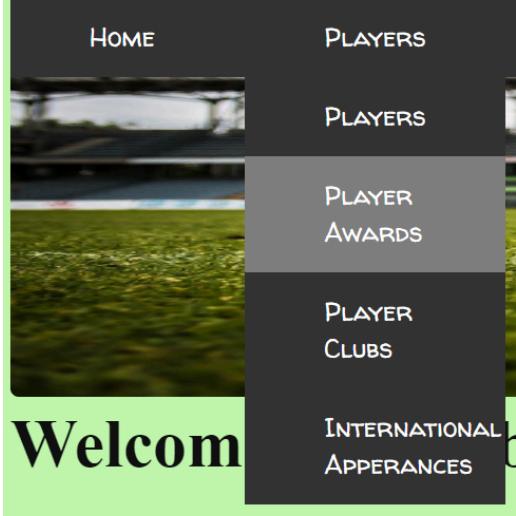
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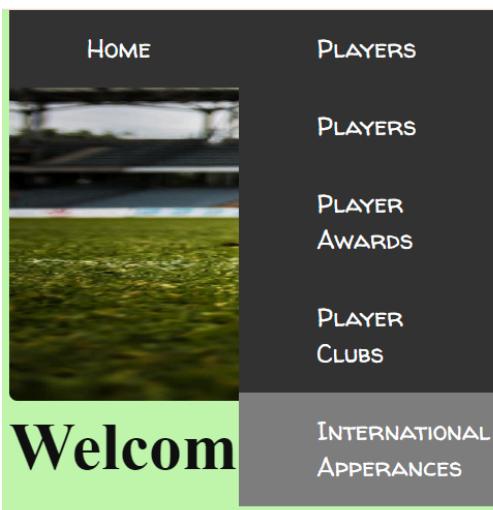
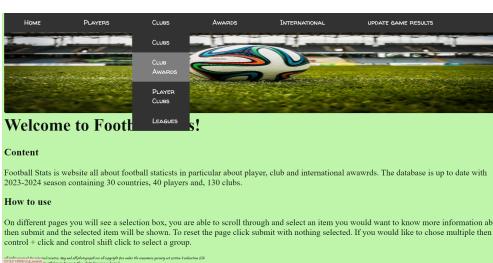
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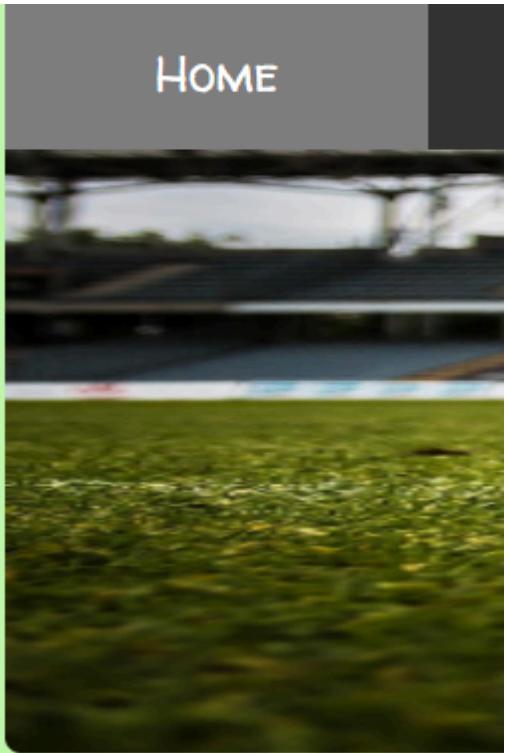
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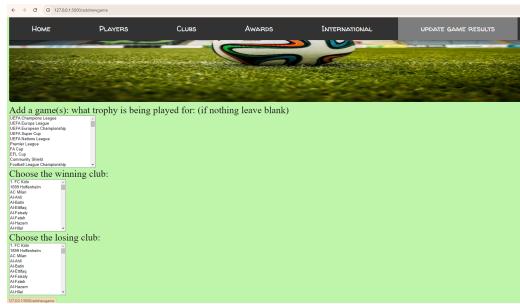
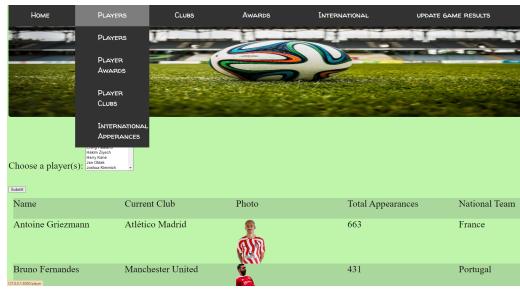
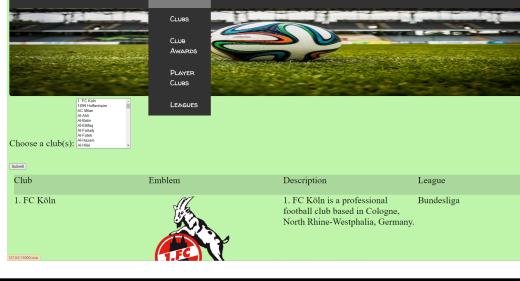
Player clubs page	Click on option in navbar	Taken to the page	<p>The screenshot shows a web application interface. On the left is a sidebar with a dark header containing the word "HOME". Below it are two green buttons labeled "Country" and "Germany". To the right of the sidebar is a main content area. At the top of this area is a dark header with the word "PLAYERS" repeated twice. Below this are two grey buttons labeled "PLAYER AWARDS" and "PLAYER CLUBS". The main content area has a light green background. It displays the text "FIFA Wor" (partially visible), "UEFA European Char", and "Euro)". Below these are three green buttons labeled "Country", "Italy", and "Netherlands". At the bottom of the main content area is a dark footer with the text "UEFA Nations League". At the very bottom of the entire page is a small white bar with the URL "127.0.0.1:5000/playerclubs".</p>
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Player awards page	Click on option in navbar	Taken to the page	 <p>The screenshot shows a dark-themed website. At the top is a navigation bar with 'HOME' on the left and 'PLAYERS' on the right. A dropdown menu for 'PLAYERS' is open, showing 'PLAYER AWARDS' as the selected item. Below the navigation is a large green banner with the word 'Welcome' in white. Underneath the banner, the word 'Content' is displayed. To the right of the banner, there is some text about the 2023-2024 season and course offerings. At the bottom of the page, there is a small footer note.</p>	p
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International appearances page	Click on option in navbar	Taken to the page	 <p>Content</p> <p>Football Stats is website all about football stats in particular about player, club and international appearances. The database is up to date with 2023-2024 season containing 30 countries, 40 players and, 130 clubs.</p> <p>How to use</p> <p>On different pages you will see a selection box, you are able to scroll through and select an item you would want to know more information about then submit and the selected item will be shown. To reset the page click submit with nothing selected. If you would like to chose multiple then use control + click and control shift click to select a group.</p> <p><small>all rights reserved for editorial content. Any and all photographs are all copyright free under license 127.0.0.1:5000/internationalappearances. No part of this website may be reproduced or stored in a retrieval system, without the express written permission of the author. © 2023 Football Stats</small></p>	p
Club awards page	Click on option in navbar	Taken to the page	 <p>Content</p> <p>Football Stats is website all about football stats in particular about player, club and international awards. The database is up to date with 2023-2024 season containing 30 countries, 40 players and, 130 clubs.</p> <p>How to use</p> <p>On different pages you will see a selection box, you are able to scroll through and select an item you would want to know more information about then submit and the selected item will be shown. To reset the page click submit with nothing selected. If you would like to chose multiple then use control + click and control shift click to select a group.</p> <p><small>all rights reserved for editorial content. Any and all photographs are all copyright free under license 127.0.0.1:5000/clubawards. No part of this website may be reproduced or stored in a retrieval system, without the express written permission of the author. © 2023 Football Stats</small></p>	p
Leagues page	Click on option in navbar	Taken to the page	 <p>Content</p> <p>Football Stats is website all about football stats in particular about player, club and international awards. The database is up to date with 2023-2024 season containing 30 countries, 40 players and, 130 clubs.</p> <p>How to use</p> <p>On different pages you will see a selection box, you are able to scroll through and select an item you would want to know more information about then submit and the selected item will be shown. To reset the page click submit with nothing selected. If you would like to chose multiple then use control + click and control shift click to select a group.</p> <p><small>all rights reserved for editorial content. Any and all photographs are all copyright free under license 127.0.0.1:5000/leagues. No part of this website may be reproduced or stored in a retrieval system, without the express written permission of the author. © 2023 Football Stats</small></p>	p

International awards page	Click on option in navbar	Taken to the page	 <p>Welcome to Football Stats!</p> <p>Content</p> <p>Football Stats is website all about football staticsts in particular about player, club and international awarwds. The database is i 2023-2024 season containing 30 countries, 40 players and, 130 clubs.</p> <p>How to use</p> <p>On different pages you will see a selection box, you are able to scroll through and select an item you would want to know more then submit and the selected item will be shown. To reset the page click submit with nothing selected. If you would like to cho control + click and control shift click to select a group.</p>	p
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Home page	Click on option in navbar	Taken to the page	 <p>Welcome</p> <h2>Content</h2> <p>Football Stats is we 2023-2024 season c</p> <h2>How to use</h2> <p>On different pages : then submit and the control + click and</p> <p><small>all rights reserved for original creators. Any unauthorized use or sharing of this content without permission from us is prohibited.</small></p>
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Update game results page	Click on option in navbar	Taken to the page		p
Player page	Click on option in navbar	Taken to the page		p
Club page	Click on option in navbar	Taken to the page		p
Award page	Click on option in navbar	Taken to the page		p
International page	Click on option in navbar	Taken to the page		p

User Feedback

Name	Qualification	Feedback received
Cameron	Programer	<p>Know what the numbers mean and upscale the quality of the images if possible.</p> <p>I have added a row above each page with information to let the viewer understand what each number means, upscaling the images would be good if I have the time but it would take a while due to the use of ai being need and the slow in use</p>
Adrian	non-programer	<p>Fix syntax errors and missing photos.</p> <p>I have gone add fixed the syntax errors (capitals and missing spaces) and also added the missing photos which were just due to an error in my database with the files</p>
Liz	Non-programer non Football watcher	<p>Change count to total awarded and change the add new game nav option to update game results.</p> <p>This suggestion for the 'count' column was good as it makes more logistic sense and changed the navbar option as that I guess could have been misleading.</p>
Nelly	Programer	<ul style="list-style-type: none"> • Collapsible selection box • More information about each item in terms of football and prestige for winning that wayward. • Larger submit box • Include a description about what each page does <p>To address this feedback I increased the size of my selection box by 5 units and added a brief description below the selection box to let the user know what the page does with the columns. I unfortunately could not add the collapsible selection box in time as with all the other additions I was not able to complete this due to the Javascript required as I have not had any experience using it.</p>
Mr Dunford	programer	<ul style="list-style-type: none"> • Increase image size on hover so they can start smaller • Have a bigger distinction between headers and data • Have a distinction such as a slightly different colour to make it easier to tell each data piece apart • Instead of having every piece of information displayed spread out, data has been shown when you search for a player or club and everything about that said item shows up. Ie select Messi then all the awards, clubs ,countries and description of what he has done in his career. <p>I have added the increased image size on hover and</p>

		added an alternating colour on each line. I also made the header column as headers instead of paragraphs to give that clear distinction. I changed the selection boxes on the man pages to display the extra information when a player is selected making it easier to obtain all the information about your favourite player.
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Website

Worked well

Relevant implications

Ascetics	Ascetics is about whether it is appealing to the eyes of the end user, this will assist keeping the user on the website, such techniques that can be used are modern design principles such as grid templates, contrasting colours and high resolution relevant graphics/pictures. To address the ascetics of my website, I have used clear contrasting colours of white, black and green as well as using a grid system that is both simple and appealing.
Accessibility	Accessibility requires the program to be able to run on any interfaces that the user has with a large font size to assist readability and for colour impaired users colour should have high contrast so they should all be able to tell colours apart. My website is accessible to my end users since it is able to be run on all modern browsers from the local host with a medium font size that is able to be read by all users. The colours featured on my website that are not from other intellectual property are white, black and green, all of which have a high contrast.

Stages

Database

Firstly I created the base Database using the first design adding in the player club and awarded tables with the linking bridge tables. I then realised that Leagues for clubs was important so I added a league table and International to cover all aspects of football. I then removed past player clubs as it was unnecessary as club appearances do more. Finally I made award tables many to many as one team country or individual can win an award multiple times. To then fill out the basic Data I used ChatGPT but then for appearances and awards I entered manually to be up to date with the 2022-2023 season.

Functioning Website

Before setting up flask I tested my SQL statements and set up each page with a basic `SELECT * FROM X` to test everything has worked. I figured out early on by looking at Jinja 2 documentation that I could pass through the data from my database and loop through with a for loop and it would mean that I can display the entire database from a single SQL statement. After repeating this from the main tables to add more functionality I added selection boxes. I chose this over a standard text search due to the complexity with spelling so using get and post if I receive an input from the box then I can use the id and display only those using a where statement. I then added this feature to all the base pages then I was ready to add a dropdown menu for the navbar due to the ballooning amount of options with the multiple tables I had in my database which took time due to me not realising that it did not work due to early styling in my navbar.

Testing

Once the functionality was added I got feedback from programmers and non-programmers. The first three responses that I had got were about the aesthetics of my website with labels for each column, fixed syntax errors and spelling plus missing photos and changed the count to awarded as it made more sense.

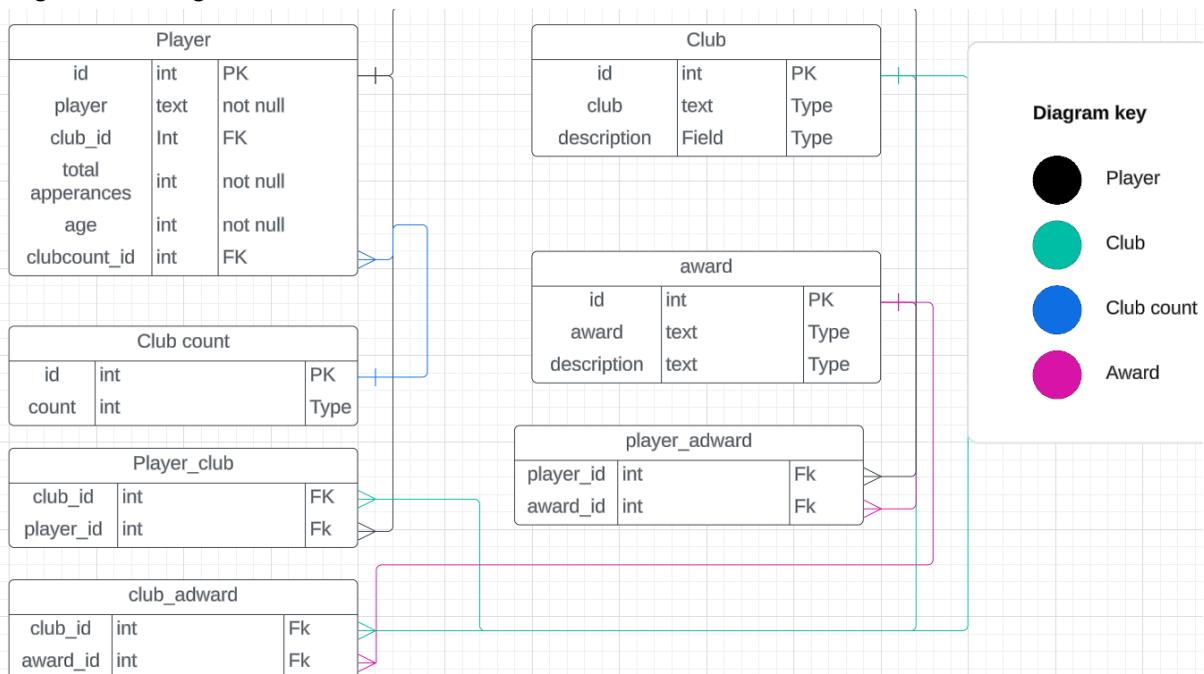
Final outcome

After all my feedback I made the improvements and cleaned up my code to remove cases of debug prints and other useless code such as an else pass. With all edge cases accounted for shown with my testing for all, one and none.

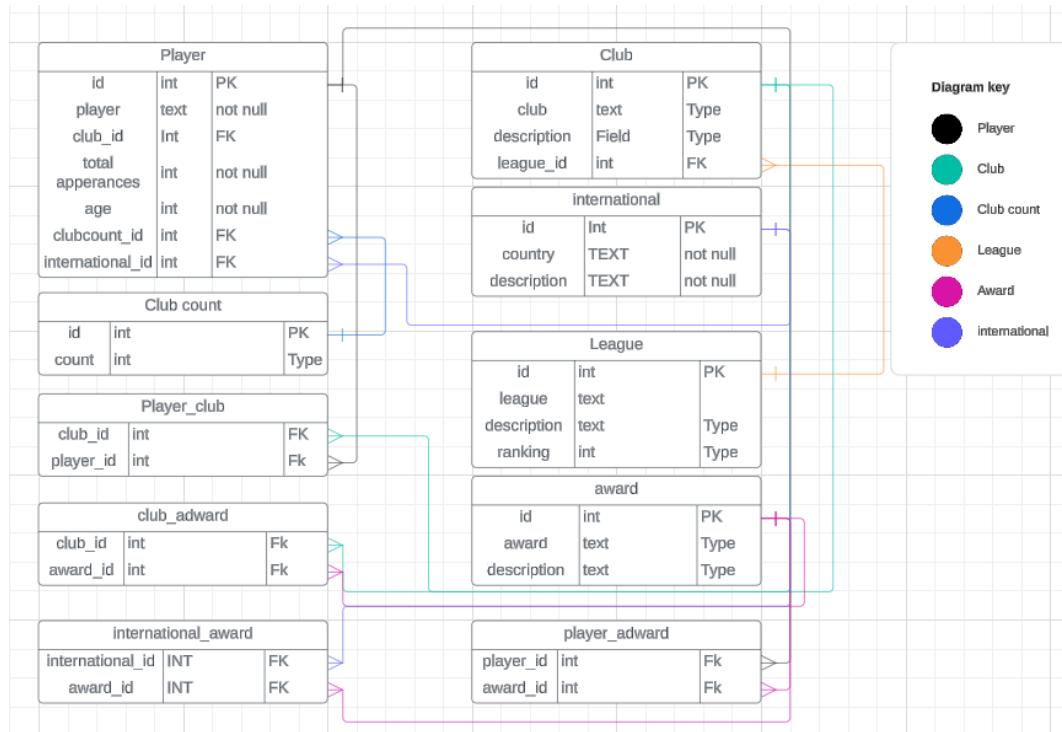
Database

Intellectual property/legal	<p>It is essential that all images and data are obtained respecting the rights of any copyright or trademark holder. This can be facilitated by using public and freely available images or using images within terms of the licence such as within fair use limits.</p> <p>The images I have used all are copyright free, falling under fair use as they are being used for educational purposes and not for commercial purposes.</p>
Ethical	<p>All of the information utilised has been accurately and honestly presented without any intent to mislead or deceive users. All information used is publicly available, i.e there is no information that is used that was provided confidentially.</p> <p>The information I have inside my database is up to date to the 2023/2024 season of football. This information is included in the homepage ensuring that this information is not misleading to users so that they should not be expecting 2024/2025 results.</p>
Sustainability and Future Proofing	<p>It is intended that the data will be regularly viewed and updated for accuracy going forward annually where feasible depending on the currency of information displayed to users.</p> <p>From the website new game results can be added to update the database, including matches resulting in a trophy being won.</p>

Original ER diagram

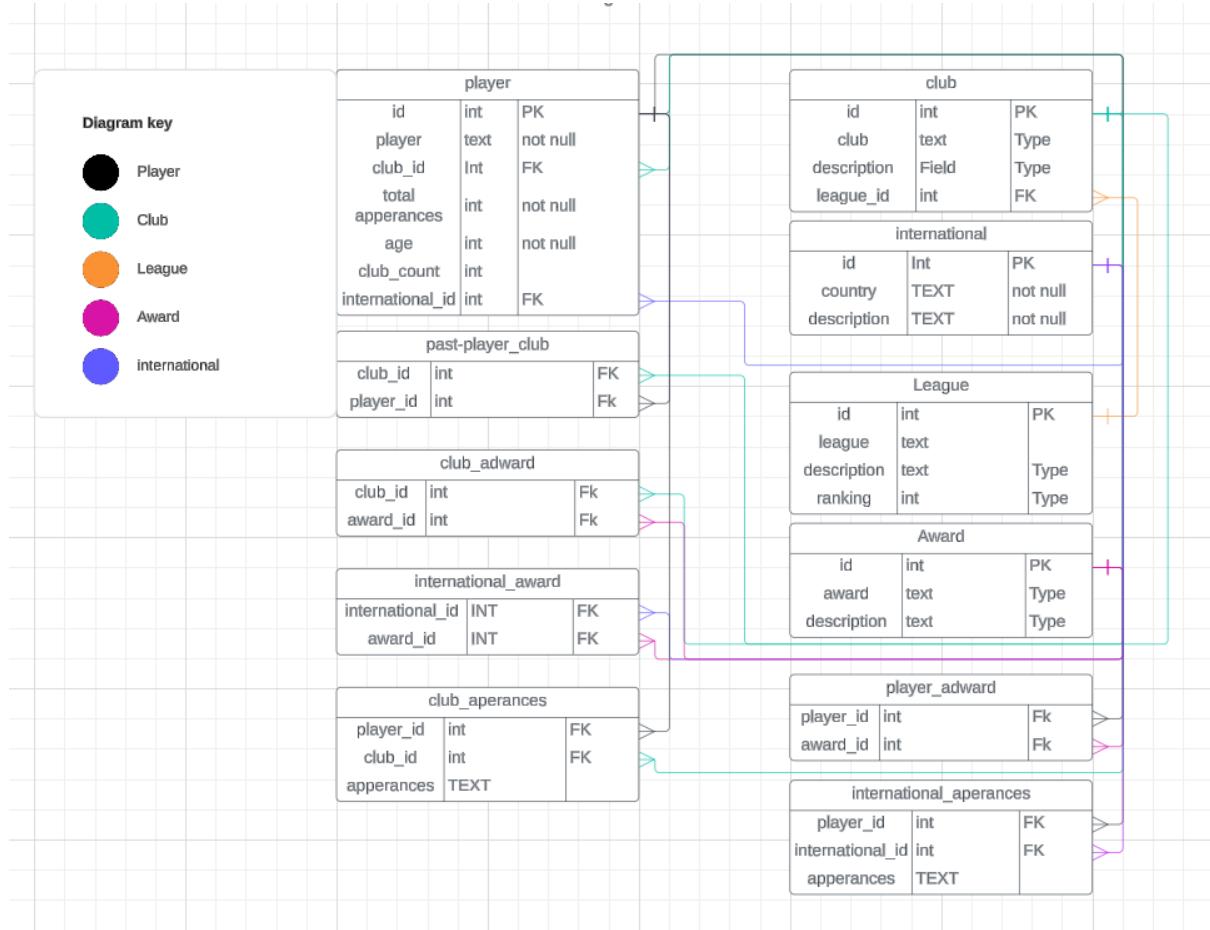


Update 1



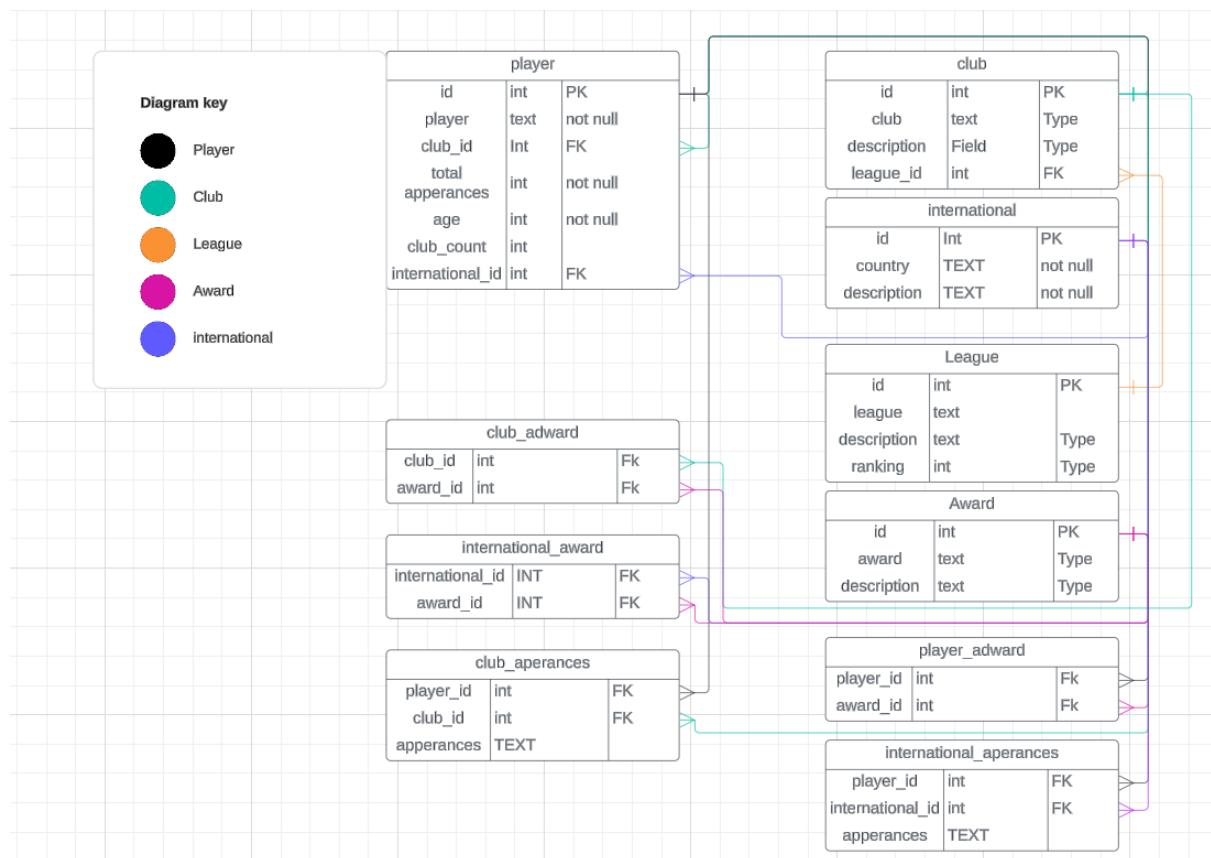
Added in the functionality of international allow for the use of international awards and appearances to properly be displayed as this is relevant information for my end users

Update 2

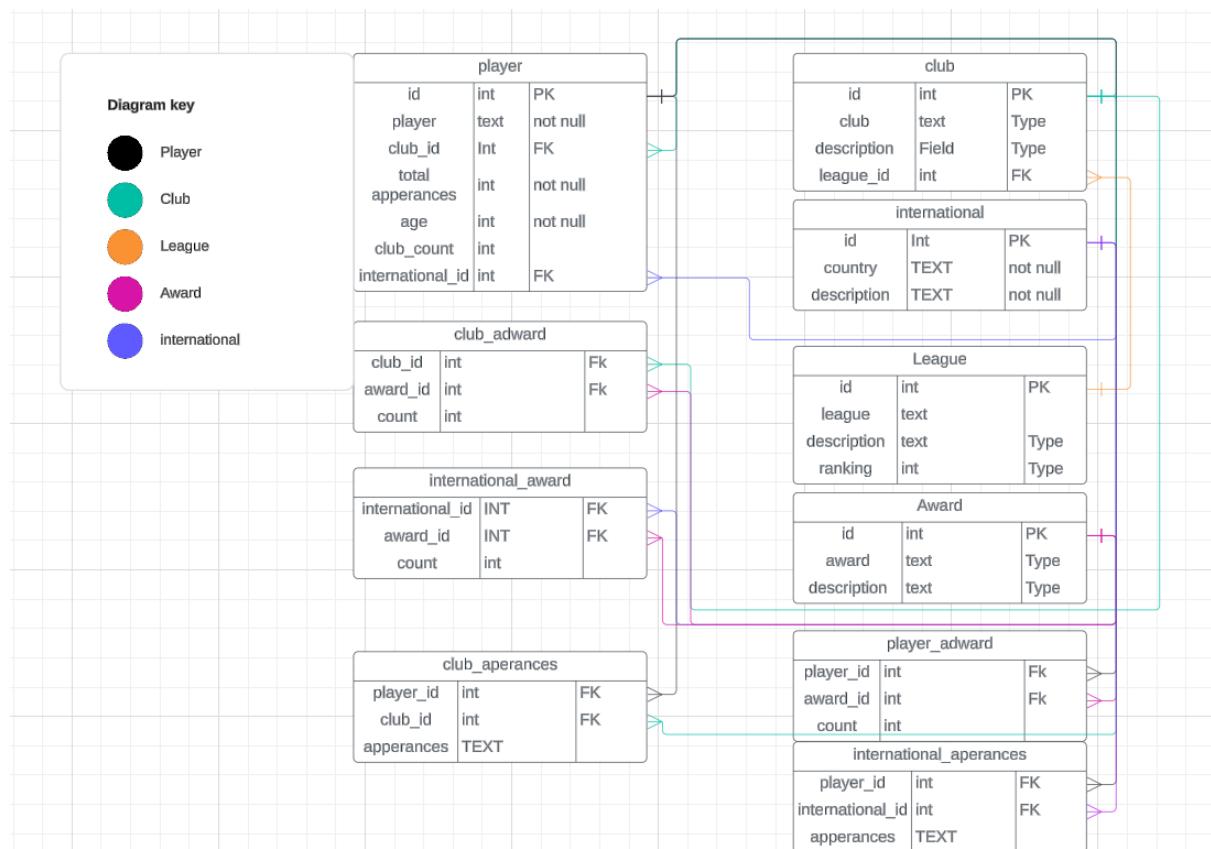


With the complex many to many tables of club and international appearances I can accurately display appearance stats for each player for each country and club they play for

Update 3



Past player club tables are not needed as club appearances serve the same purpose but does contain more data.



Update 4

Made award tables complex many to manies as clubs or players or countries can win a trophy multiple times