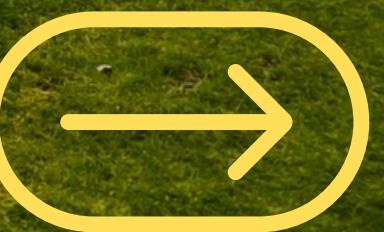




FOOTBALL



NTI



Firstly: web_scraping

[https://www.premierleague.com/en/tables?
competition=8&season=2025&round=L_1&matchweek=1&ha=-1](https://www.premierleague.com/en/tables?competition=8&season=2025&round=L_1&matchweek=1&ha=-1)

Salford & Co.



INTRODUCTION





Premier League

[Matches](#)[Table](#)[Statistics](#)[Fantasy](#) ▾[News](#)[Players](#)[Clubs](#)[Video](#)

Table

☰ Premier League ▾ 2025/26 ▾ Matchweek 1 ▾ Home/Away ▾ Reset ⏪

Pos	Team	Pl	W	D	L	GF	GA	GD	Pts	Next
1	Arsenal	0	0	0	0	0	0	0	0	
2	Aston Villa	0	0	0	0	0	0	0	0	
3	Bournemouth	0	0	0	0	0	0	0	0	
4	Brentford	0	0	0	0	0	0	0	0	
5	Brighton and Hove Albion	0	0	0	0	0	0	0	0	
6	Burnley	0	0	0	0	0	0	0	0	

```
import pandas as pd
from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from bs4 import BeautifulSoup
import pandas as pd
import time

if len(cols) > 8:
    date = cols[0].text.strip()
    time_ = cols[1].text.strip()
    home_team = cols[2].text.strip()
    score = cols[3].text.strip()
    away_team = cols[4].text.strip()
    attendance = cols[5].text.strip()
    xg = cols[6].text.strip()
    wk = cols[7].text.strip()

matches.append({
    'Date': date,
    'Time': time_,
    'HomeTeam': home_team,
    'AwayTeam': away_team,
    'Score': score,
    'Attendance': attendance,
    'xG': xG,
    'Wk': wk
})

create DimDate
date = df_matches[['Date', 'Week', 'Day']].drop_duplicates().reset_index(drop=True)

create DimStadium
stadium = df_matches[['Stadium']].drop_duplicates().reset_index(drop=True)
stadium['StadiumID'] = dim_stadium.index + 1

create DimTeam
teams = pd.concat([df_matches['HomeTeam'], df_matches['AwayTeam'], df_players['Team']])
team = teams.drop_duplicates().reset_index(drop=True).to_frame(name='Team')
team['TeamID'] = dim_team.index + 1

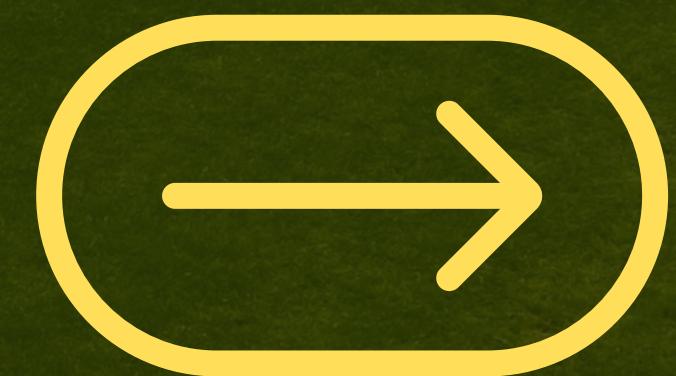
create DimPlayer
player = df_players[['Player', 'Nation', 'Pos', 'Age']].drop_duplicates().reset_index(drop=True)
player['PlayerID'] = dim_player.index + 1

create FactMatch
fact_match = df_matches.copy()
fact_match = fact_match.merge(dim_team, left_on='HomeTeam', right_on='Team', how='left')
fact_match = fact_match.rename(columns={'TeamID': 'HomeTeamID'}).drop(columns='Team')
fact_match = fact_match.merge(dim_team, left_on='AwayTeam', right_on='Team', how='left')
fact_match = fact_match.rename(columns={'TeamID': 'AwayTeamID'}).drop(columns='Team')
fact_match = fact_match.merge(dim_stadium, on='Stadium', how='left')
fact_match = fact_match[['Date', 'HomeTeamID', 'AwayTeamID', 'StadiumID', 'HXG', 'AXG', 'Wk']]

create FactPlayer
fact_player = df_players.copy()
fact_player = fact_player.merge(dim_player, on=['Player', 'Nation', 'Pos', 'Age'], how='left')
fact_player = fact_player.merge(dim_team, on='Team', how='left')
fact_player = fact_player[['PlayerID', 'TeamID', 'MP', 'Starts', 'Min', 'Gls', 'Ast', 'CrdYl', 'CrdRl', 'Wk']]
```

DATA STORAGE AND MODELING

SQL Server



View Query Project Tools Window Help



FootballIDW

DESKTOP-LLMUNQ1...IDW - Diagram_0*

SQLQuery1.sql - D...LMUNQ1\DELL (76)*

GO

```
ALTER TABLE FactMatch
ADD CONSTRAINT FK_FactMatch_HomeTeam FOREIGN KEY (HomeTeamID) REFERENCES DimTeam(TeamID);

ALTER TABLE FactMatch
ADD CONSTRAINT FK_FactMatch_AwayTeam FOREIGN KEY (AwayTeamID) REFERENCES DimTeam(TeamID);

ALTER TABLE FactMatch
ADD CONSTRAINT FK_FactMatch_Stadium FOREIGN KEY (StadiumID) REFERENCES DimStadium(StadiumID);

ALTER TABLE DimDate
ADD CONSTRAINT PK_DimDate_Date PRIMARY KEY (Date);

ALTER TABLE FactMatch
ADD CONSTRAINT FK_FactMatch_Date FOREIGN KEY (Date) REFERENCES DimDate(Date);

ALTER TABLE FactPlayerPerformance
ADD CONSTRAINT FK_FactPlayerPerformance_Player FOREIGN KEY (PlayerID) REFERENCES DimPlayer(PlayerID);

ALTER TABLE FactPlayerPerformance
ADD CONSTRAINT FK_FactPlayerPerformance_Team FOREIGN KEY (TeamID) REFERENCES DimTeam(TeamID);
```

118 %

Results Messages

Date

cnt

File View Project Table Designer Tools Window Help



FootballDW

▼ X

DESKTOP-LLMUNQ1...IDW - Diagram_0* X

SQLQuery1.sql - D...LMUNQ1\DELL (76)*

Explorer ▼ X

SKTOP-LLMUNQ1 (SQL Server 16.0.11)

Databases

System Databases

Database Snapshots

BloodDonation

company

company_my

CompanyDB

FootballDW

Database Diagrams

Tables

Views

External Resources

Synonyms

Programmability

Query Store

Service Broker

Storage

Security

Hospital

HospitalDB5

MY_HOSPITAL_DATA_BASE

Security

Server Objects

Replication

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

XEvent Profiler



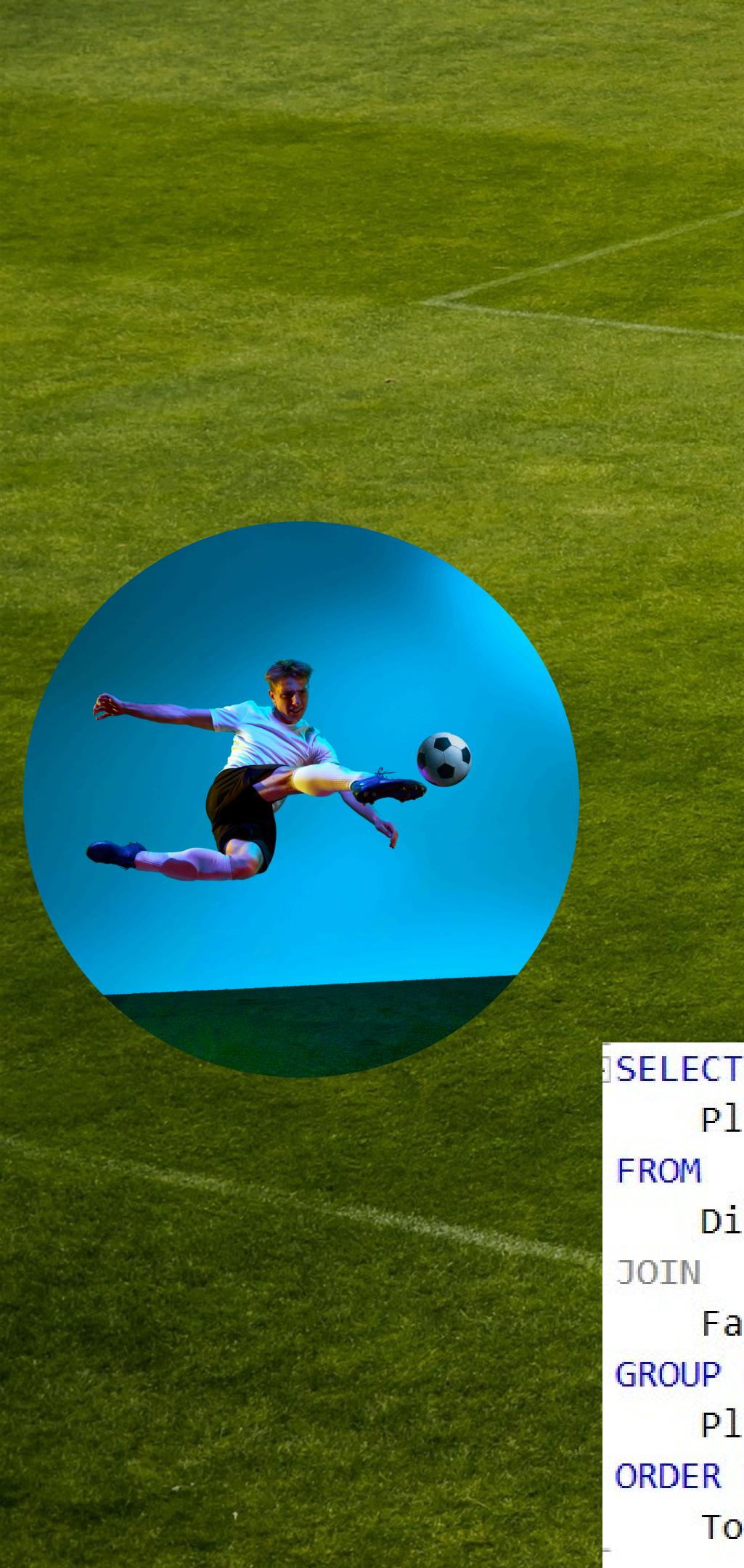
OVERVIEW



```
SELECT TOP 10
    Stadium , SUM(Attendance) AS TotalAttendance
FROM
    DimStadium AS DS
JOIN
    FactMatch AS FM ON FM.stadiumID = DS.StadiumID
GROUP BY
    Stadium
ORDER BY
    TotalAttendance DESC;
```

	Stadium	TotalAttendance
1	Old Trafford	1397127
2	London Stadium	1188782
3	Tottenham Hotspur Stadium	1168163
4	Emirates Stadium	1144488
5	Anfield	1063606
6	Etihad Stadium	1007227
7	St James' Park	990369
8	Villa Park	795310
9	Stamford Bridge	750953
10	Goodison Park	741793



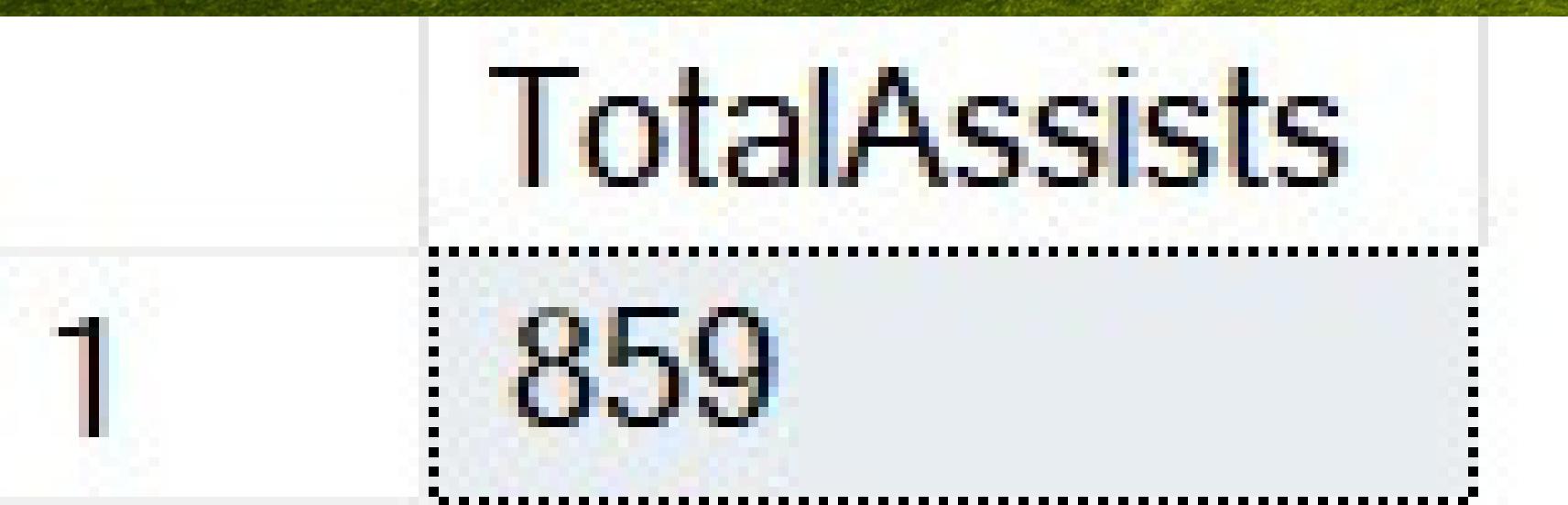


	Player	TotalGoals
1	Erling Haaland	27
2	Cole Palmer	22
3	Alexander Isak	21
4	Dominic Solanke	19
5	Ollie Watkins	19
6	Phil Foden	19
7	Mohamed Salah	18
8	Son Heung-min	17
9	Bukayo Saka	16
10	Jarrod Bowen	16

```
SELECT TOP 10
    Player , SUM(Gls) AS TotalGoals
FROM
    DimPlayer AS DP
JOIN
    FactPlayerPerformance AS FPP ON FPP.PlayerID = DP.PlayerID
GROUP BY
    Player
ORDER BY
    TotalGoals DESC;
```



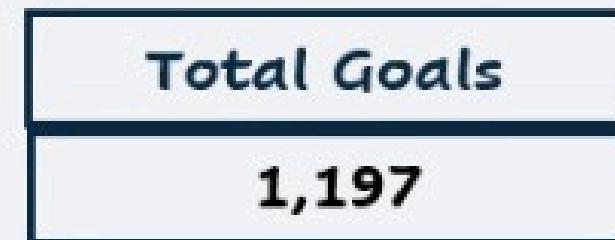
	Player	Total Assists
1	Ollie Watkins	13
2	Cole Palmer	11
3	Anthony Gordon	10
4	Brennan Johnson	10
5	Kevin De Bruyne	10
6	Kieran Trippier	10
7	Martin Ødegaard	10
8	Mohamed Salah	10
9	Morgan Gibbs-White	10



Pos	Filter
DF	<input checked="" type="checkbox"/>
DF,FW	<input type="checkbox"/>
DF,MF	<input type="checkbox"/>
FW	<input type="checkbox"/>
FW,DF	<input type="checkbox"/>

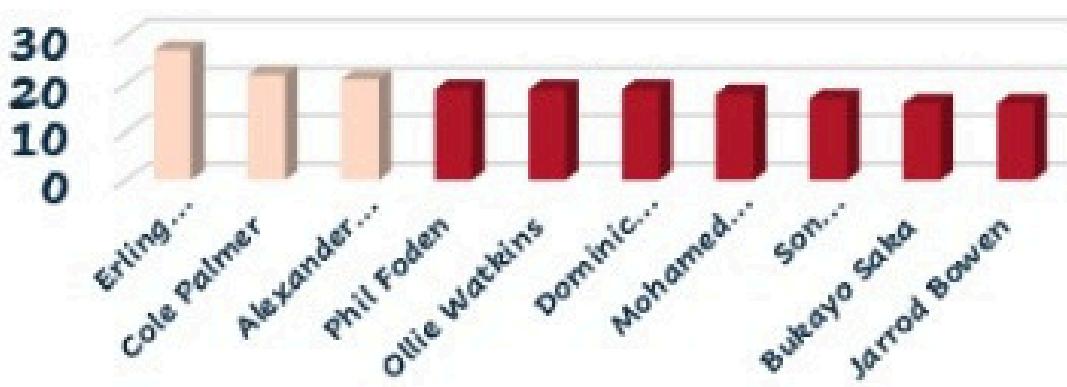


Premier League Overview

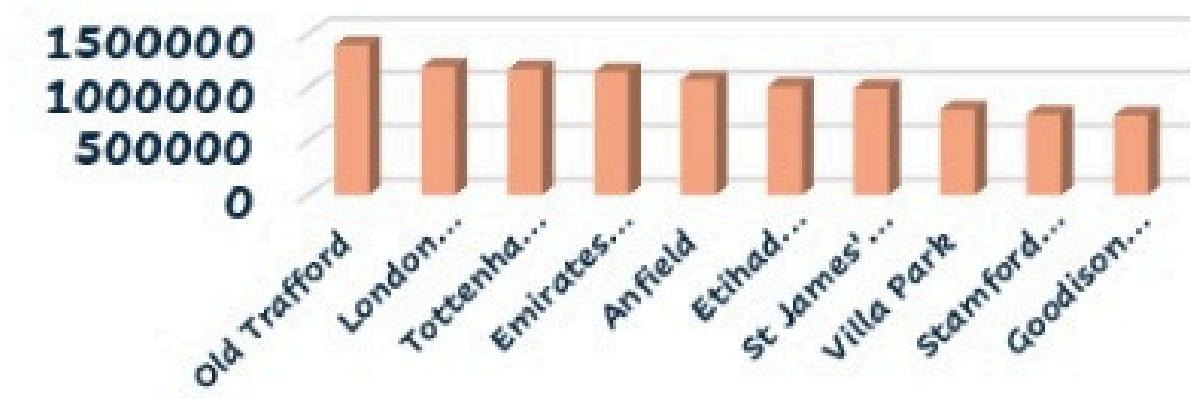


Week	Filter
1	<input checked="" type="checkbox"/>
2	<input type="checkbox"/>
3	<input type="checkbox"/>
4	<input type="checkbox"/>

Top 10 Scorers



Top 10 Stadiums By Attendance



Team	Filter
Arsenal	<input checked="" type="checkbox"/>
Aston Villa	<input type="checkbox"/>
Bournemouth	<input type="checkbox"/>
Brentford	<input type="checkbox"/>
Brighton	<input type="checkbox"/>

Total Goals By Weeks



Top 10 Assisters



INSIGHTS:

- - Very small margin between #goals & #assists implies that goals rarely come from a single effort/player.
- - Goals per weeks stays between 20-40 further emphasizing the expected/repetitive nature of the league.
- - Old Trafford ranks 1st in attendance which implies that name recognition matters more than winning or playing decent games.
- - About 50% of players only come from English which imply a diverse set of players.



Edit View Query Project Tools Window Help



FootballIDW

Execute

SQLQuery_Nti_fina...LMUNQ1\DELL (59)

```
SELECT
    t.Team,
    SUM(CASE WHEN t.TeamID = m.HomeTeamID THEN m.HTG ELSE 0 END +
          CASE WHEN t.TeamID = m.AwayTeamID THEN m.ATG ELSE 0 END) AS TotalGoals
FROM
    DimTeam t
JOIN FactMatch m
    ON t.TeamID = m.HomeTeamID OR t.TeamID = m.AwayTeamID
GROUP BY
    t.Team
ORDER BY
    TotalGoals DESC;
```

118 %

Results Messages

	Team	TotalGoals
1	Manchester City	96
2	Arsenal	91
3	Liverpool	86
4	Newcastle Utd	85
5	Chelsea	77
6	Aston Villa	76
7	Tottenham	74
8	West Ham	60
9	Manchester Utd	57
10	Crystal Palace	57
11	Brentford	56
12	Brighton	55
13	Fulham	55
14	Bournemouth	54
15	Luton Town	52
16	Wolves	50
17	Nott'ham Forest	49
18	Burnley	41
19	Everton	40

Query executed successfully.

DESKTOP-LLMUNQ1 (16.0 RTM) | DESKTOP-LLMUNQ1\DELL (59) | FootballIDW | 00:00:00



Edit View Query Project Tools Window Help



FootballIDW Execute ✓

SQLQuery_Nti_fina...LMUNQ1\DELL (59) X

```
SELECT
    t.Team,
    SUM(p.CrdY) AS TotalYellowCards,
    SUM(p.CrdR) AS TotalRedCards
FROM
    FactPlayerPerformance p
JOIN
    DimTeam t ON p.TeamID = t.TeamID
GROUP BY
    t.Team
ORDER BY
    TotalRedCards DESC, TotalYellowCards DESC;
```

118 %

Results Messages

	Team	TotalYellowCards	TotalRedCards
1	Burnley	77	7
2	Sheffield United	101	5
3	Liverpool	69	5
4	Chelsea	108	4
5	Wolverhampton	102	4
6	Tottenham Hotspur	92	4
7	Fulham	83	4
8	Brighton	90	3
9	West Ham United	82	3
10	Nottingham Forest	82	3
11	Bournemouth	79	3
12	Aston Villa	94	2
13	Brentford	89	2
14	Crystal Palace	73	2
15	Arsenal	64	2
16	Manchester City	53	2
17	Manchester United	83	1
18	Everton	82	1
19	Newcastle United	79	1

Query executed successfully.

DESKTOP-LLMUNQ1 (16.0 RTM) | DESKTOP-LLMUNQ1\DELL (59) | FootballIDW | 00:00:00



View Query Project Tools Window Help



FootballDW

Execute



query_Nti_fina...LMUNQ1\DELL (59) X

```
SELECT
    SUM(CrdR) AS TotalRedCards
FROM
    FactPlayerPerformance;
```

```
SELECT
    SUM(CrdY) AS TotalYellowCards
FROM
    FactPlayerPerformance;]
```

results Messages

TotalRedCards
58



TotalYellowCards
1653

Premier League Report

(Team Analysis)



Team Analysis

Stadium Analysis

Player Analysis

Age Group

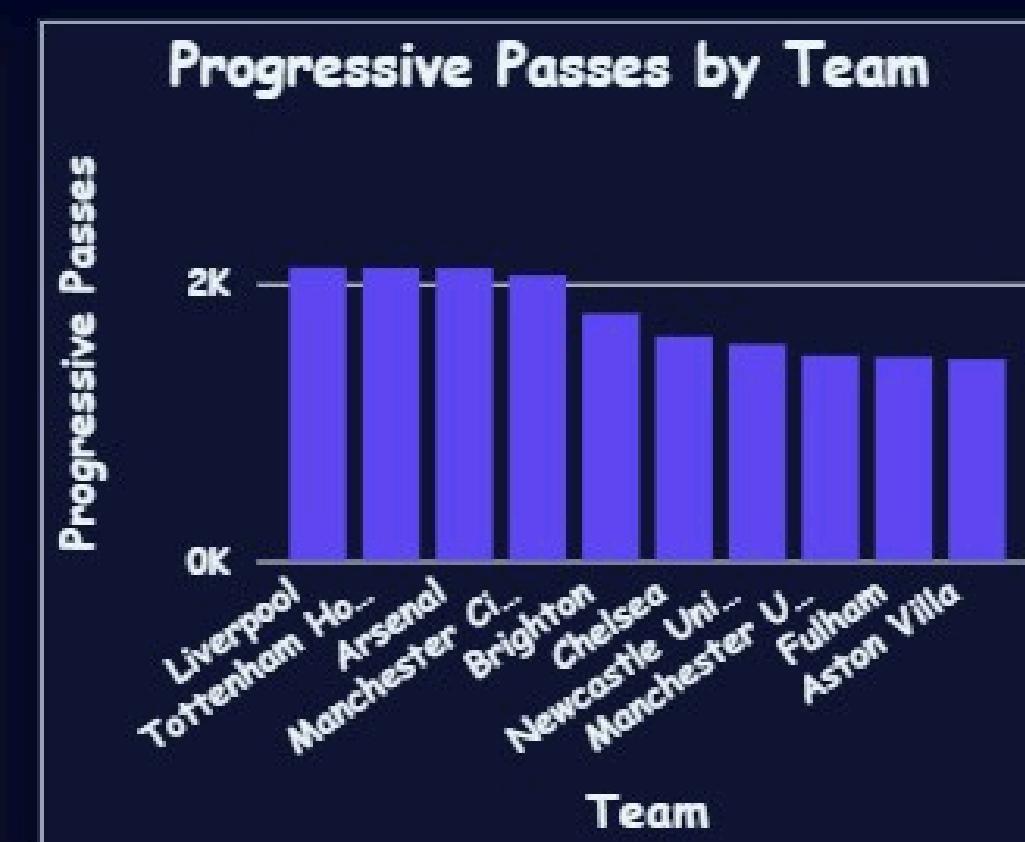
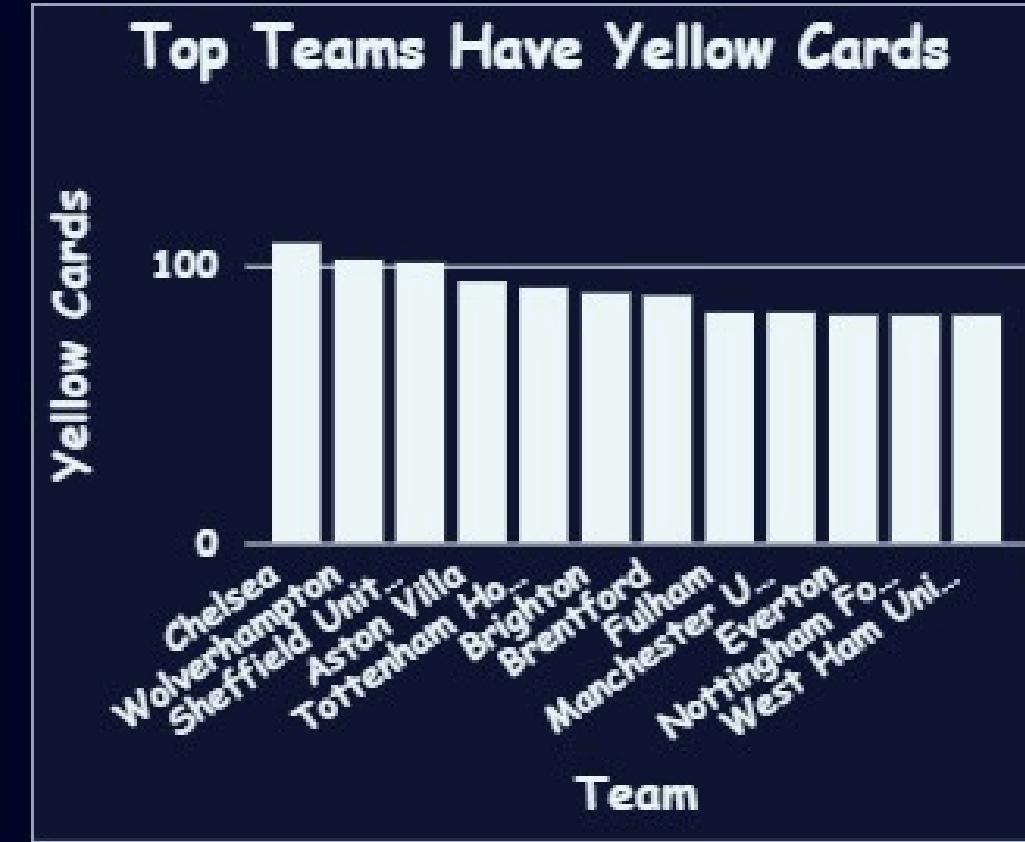
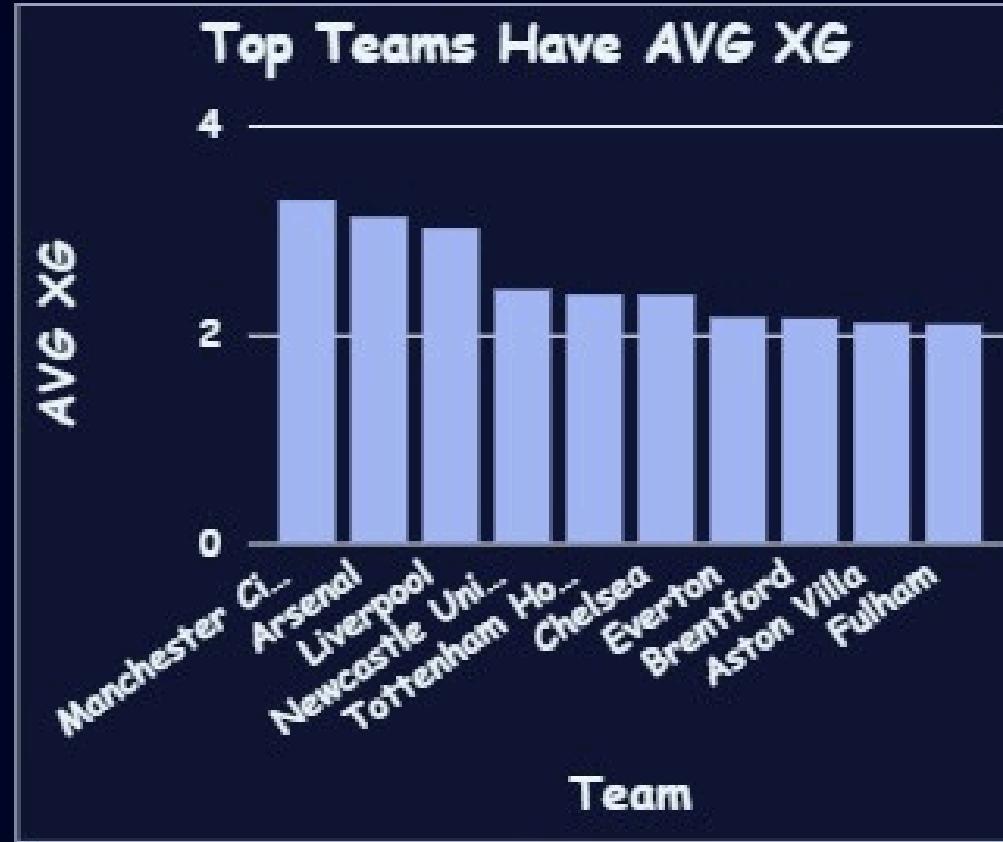
Player

Nation

2.08
Average of xG

1653
Yellow Cards

58
Red Cards



INSIGHTS:

- Man City scored the most goals and had the highest average xG per game.
- Liverpool had the highest total xG and led in progressive passes.
- Everton wasted the most goals, showing poor finishing.
- Chelsea received the most yellow cards.
- Top attacking teams: Liverpool, Tottenham, Arsenal (high progressive passes).
- Aggressive teams: Chelsea and Wolves (most yellow cards).



-- Top Stadiums Have XG

```
SELECT
    stadium , ROUND(SUM(HXG + AXG) , 1) AS total_xg
FROM
    DimStadium AS DS
JOIN
    FactMatch AS FM ON FM.StadiumID = DS.StadiumID
GROUP BY
    stadium
ORDER BY
    total_xg DESC;
```

-- Top Teams Have AVG HTG

```
SELECT
    Team , SUM(HTG) AS home_team_goals
FROM
    DimTeam AS DT
JOIN
    FactMatch AS FM ON FM.HomeTeamID = DT.TeamID
GROUP BY
    Team
ORDER BY
    home_team_goals DESC;
```



Premier League

```
-- Total Foreign Players
SELECT COUNT(*) AS total_foreign_players FROM DimPlayer
WHERE Nation <> 'ENG';

-- Total Players Under 20
SELECT COUNT(*) AS total_players_under20 FROM DimPlayer
WHERE Age < 20;

-- Total Players Above 30
SELECT COUNT(*) AS total_players_above30 FROM DimPlayer
WHERE Age > 30;

-- Total Progressive Runs by Players
SELECT SUM(PrgR) AS total_progressive_runs FROM FactPlayerPerformance;
-- Total HTG
SELECT SUM(HTG) AS home_team_goals FROM FactMatch;

-- Total ATG
SELECT SUM(ATG) AS away_team_goals FROM FactMatch;

-- Total Attendance
SELECT SUM(Attendance) AS total_attendance FROM FactMatch;

-- Total HTG
SELECT ROUND(SUM(HXG + AXG) , 1) AS total_xg FROM FactMatch
```



Premier League

Premier League Report

(Player Analysis)

Team Analysis

Stadium Analysis

Player Analysis

Age Group

All

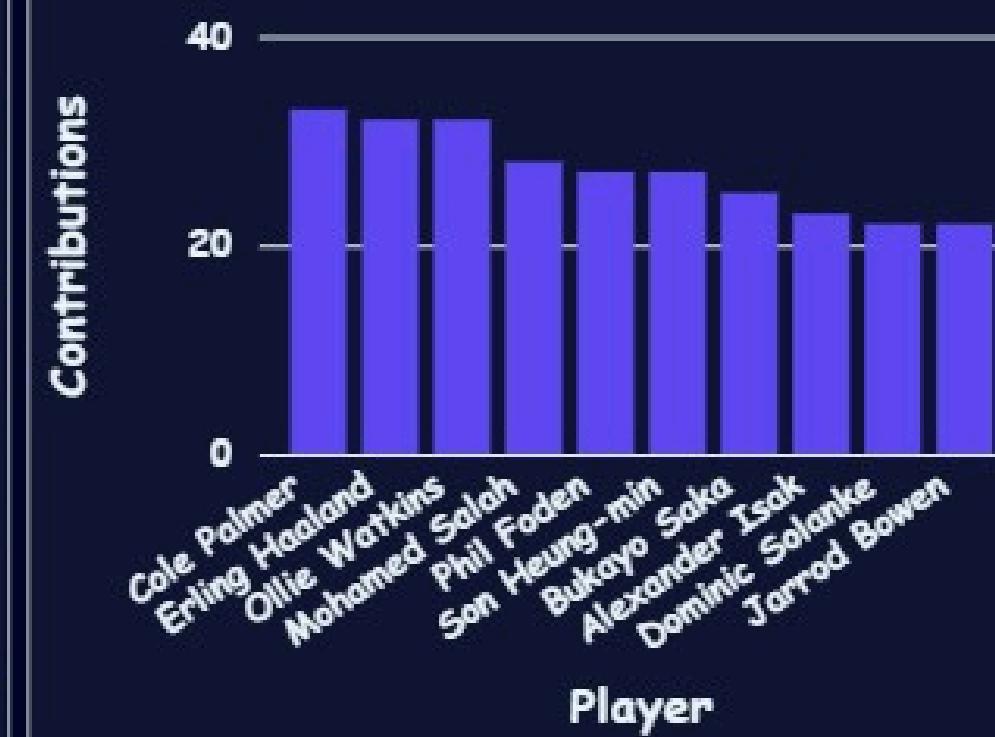
Team

All

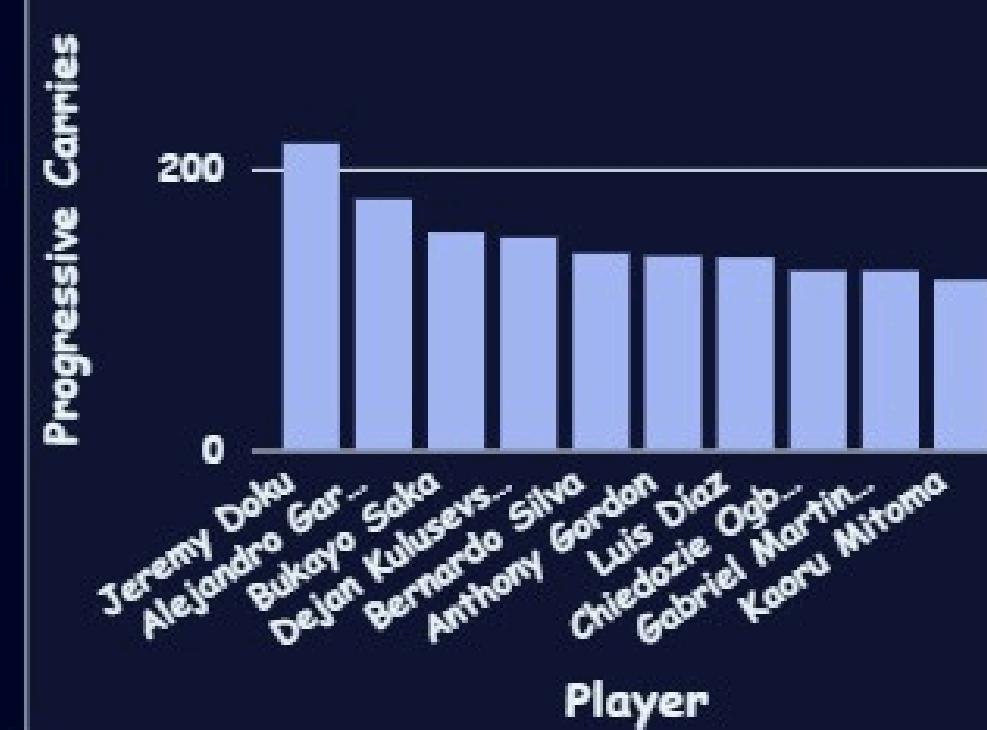
Pos

All

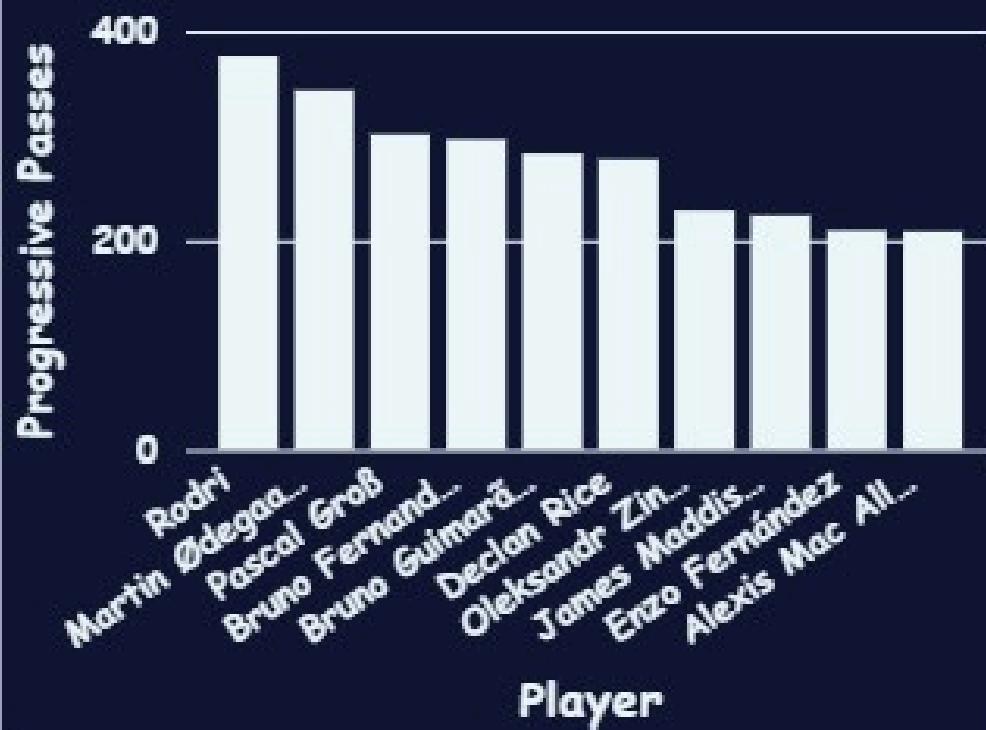
Top Players Have Contributions



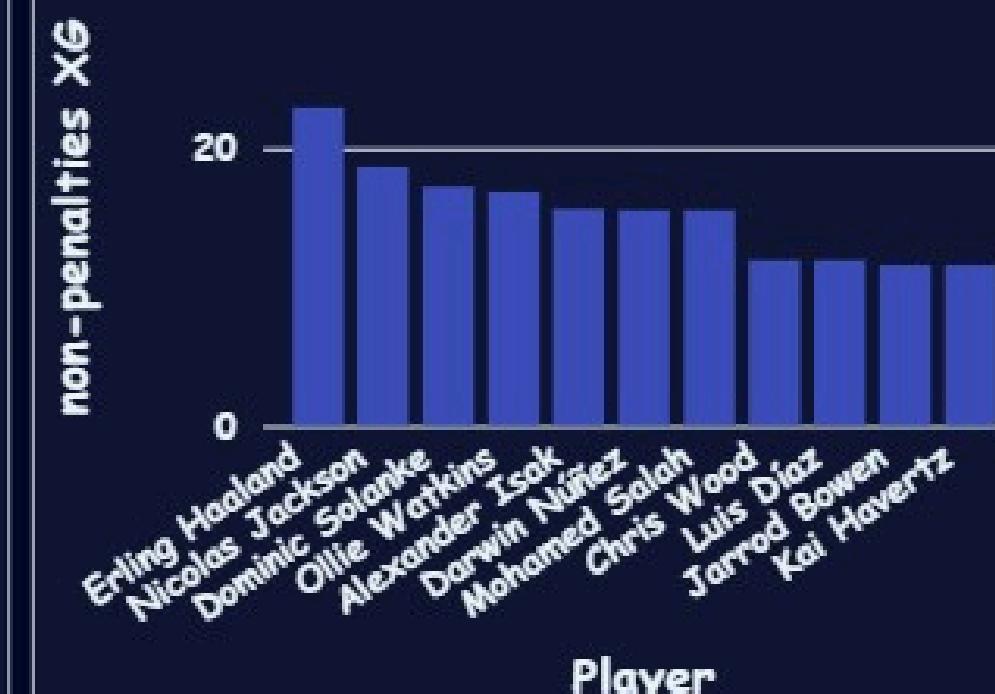
Top Players Have Progressive Carries



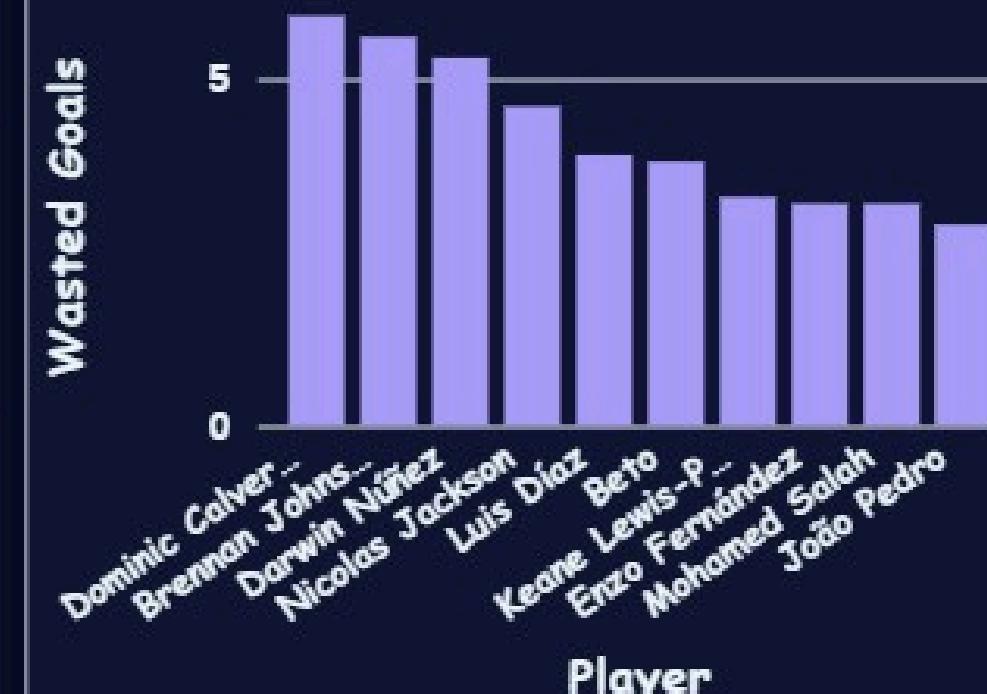
Top Players Have Progressive Passes



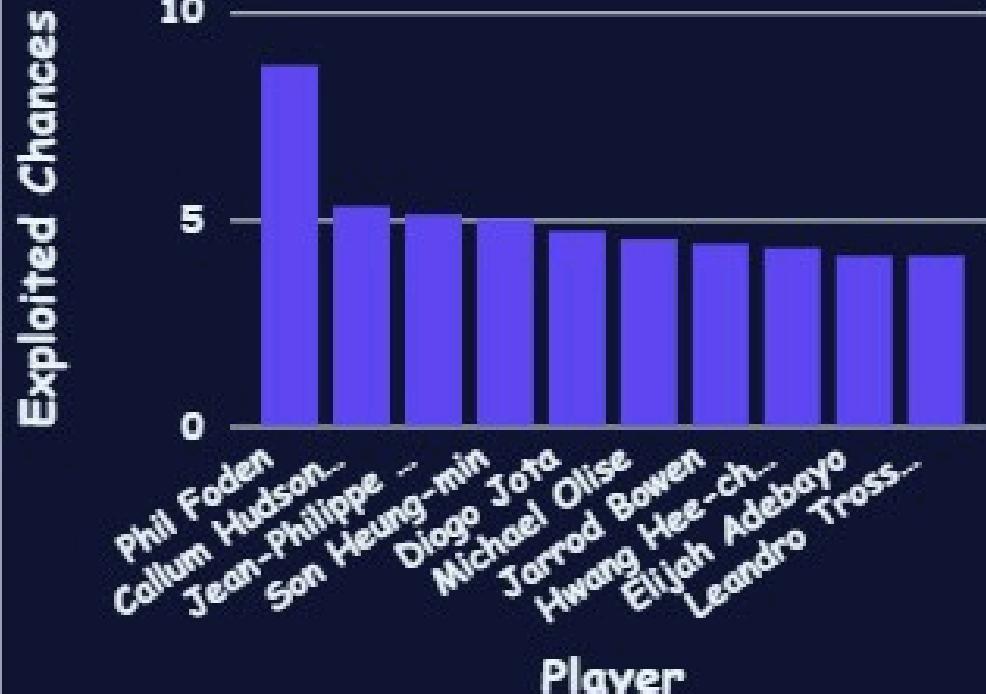
Players by non-penalties XG



Top Players Wasted Goals



Top Players Exploited Chances



INSIGHTS:

- Anfield (Liverpool) had the highest expected goals, showing strong home performance.
- Old Trafford (Manchester United) had the highest average attendance, indicating strong fan support.
- Peak attendance happened mid-season.
- Manchester City had the highest home scoring rate, followed by Liverpool and Arsenal.
- Despite high attendance, Manchester United had one of the lowest home scoring rates.
- Teams scored more at home than away, showing the advantage of home field and fans.
- Fan attendance remained high all season, reflecting the Premier League's strength and competitiveness.



Premier League



Premier League Report

(Stadium Analysis)



684



Home Team Goals



562



Away Team Goals



15M



Total Attendance



1.18K



Total XG

Team Analysis

Stadium Analysis

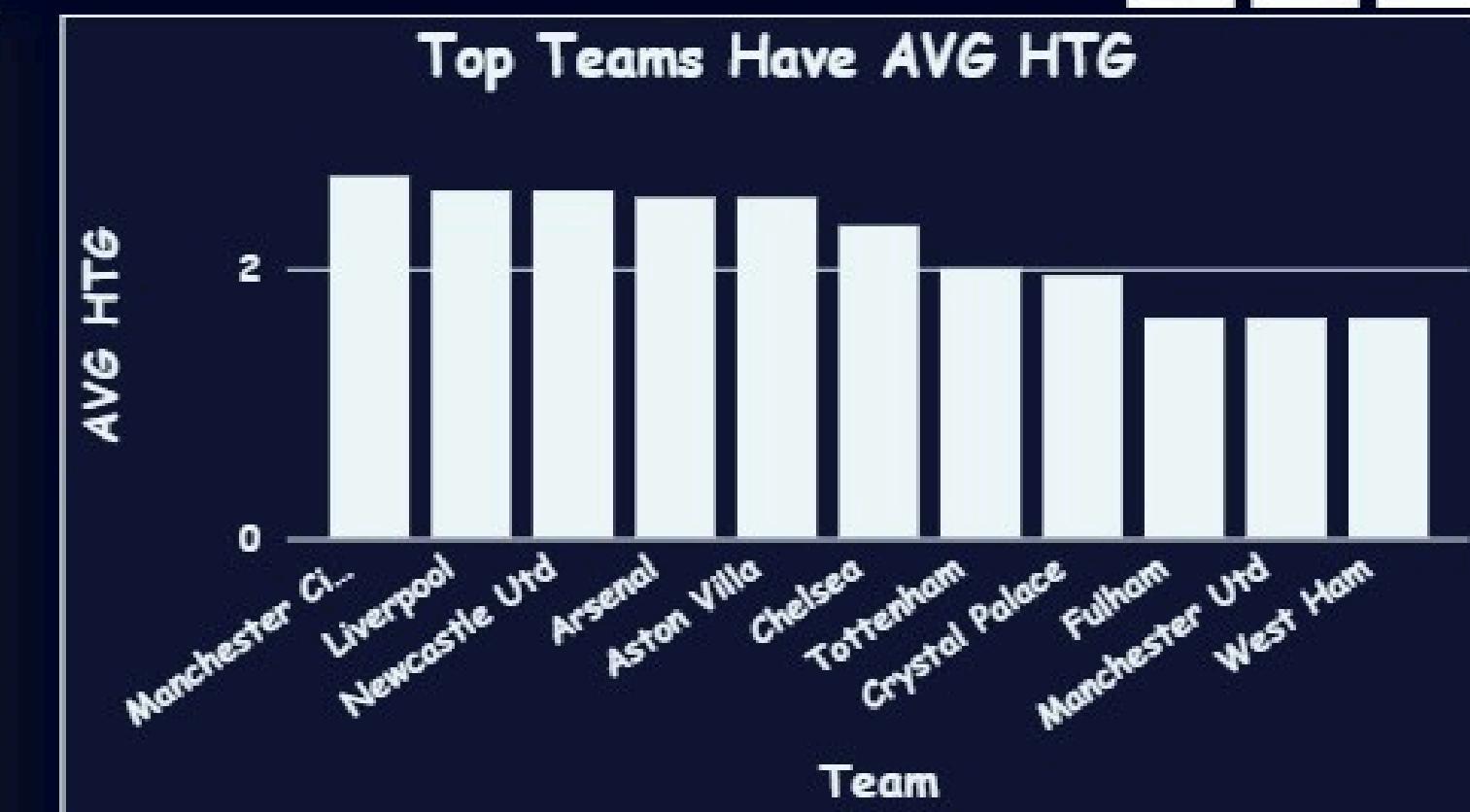
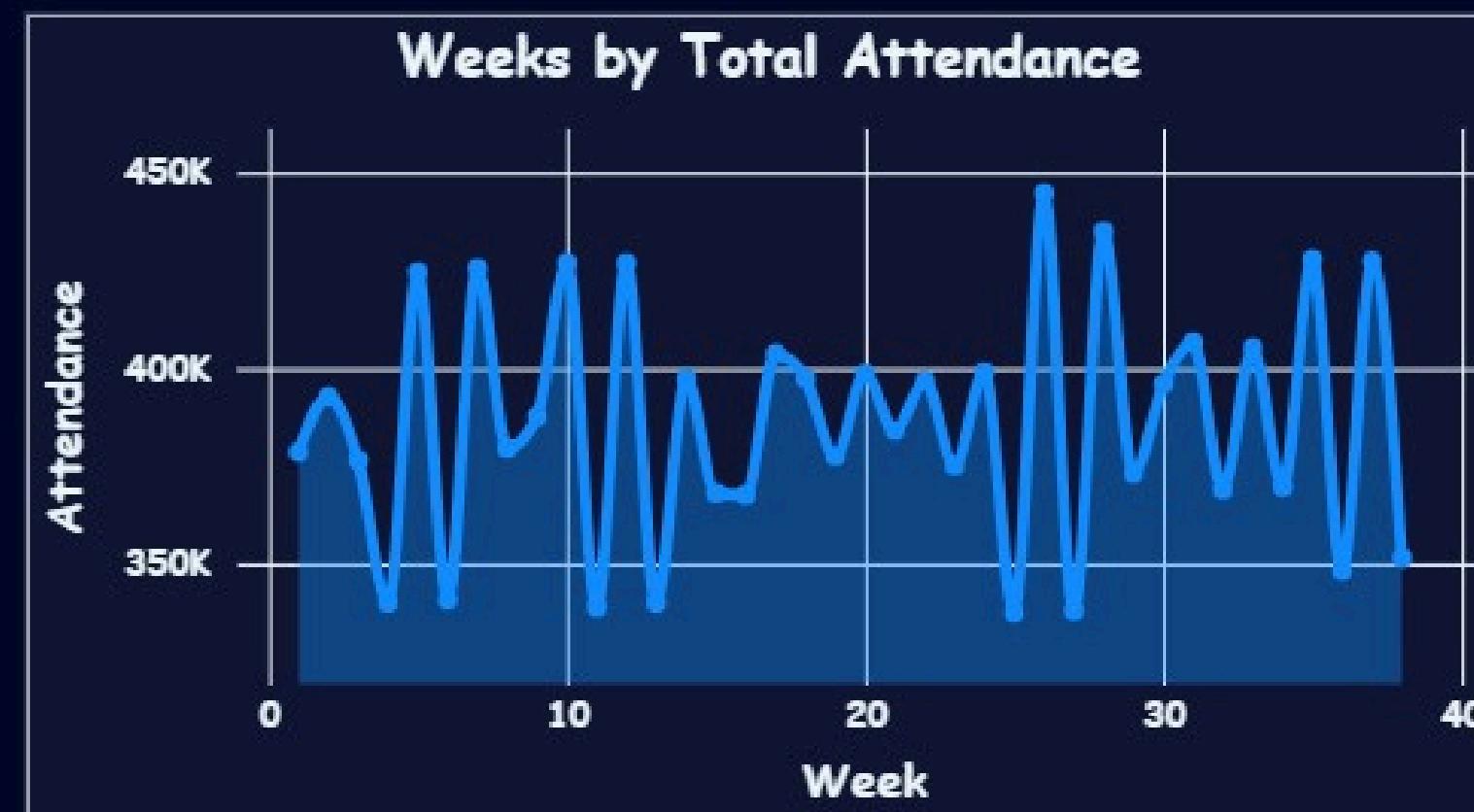
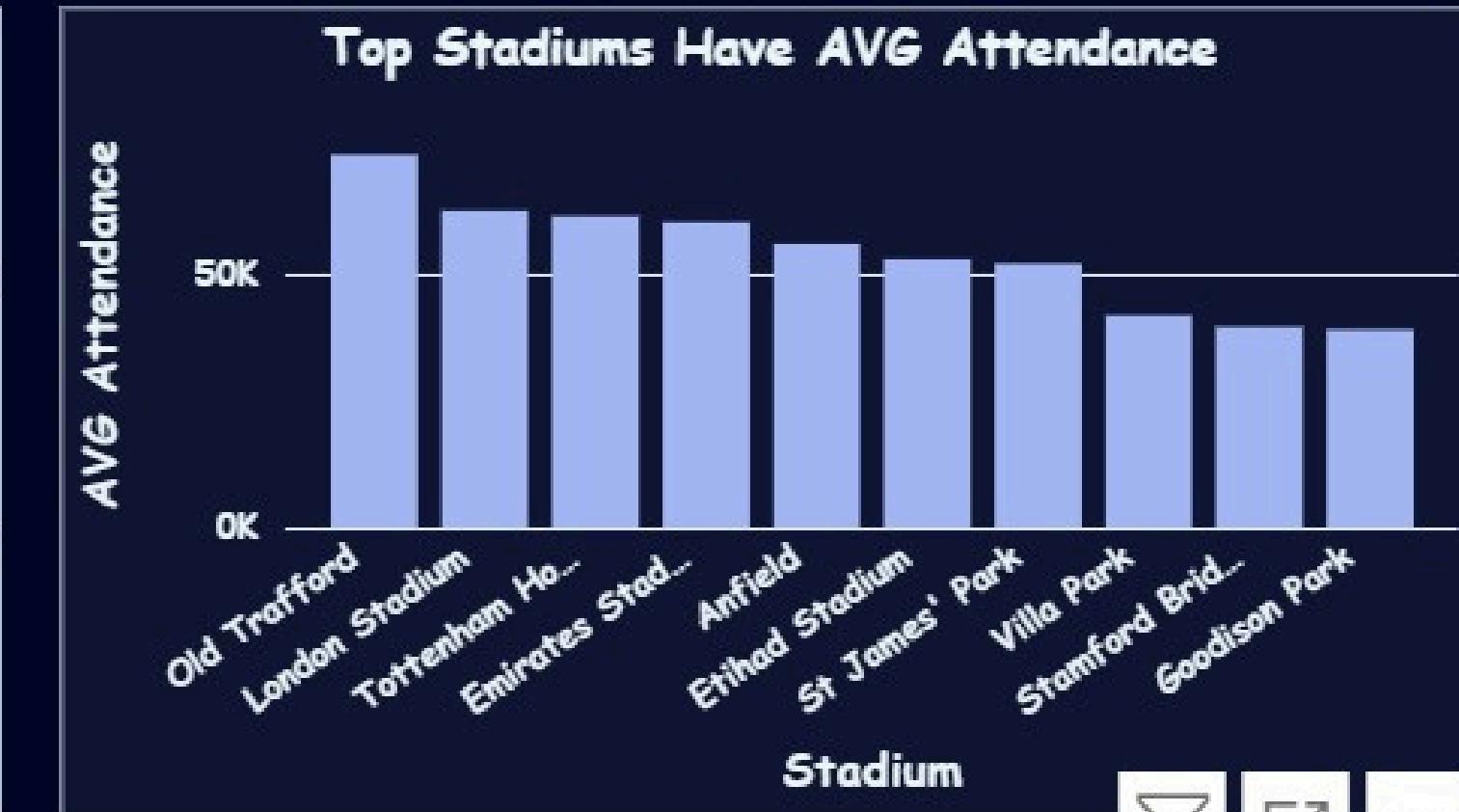
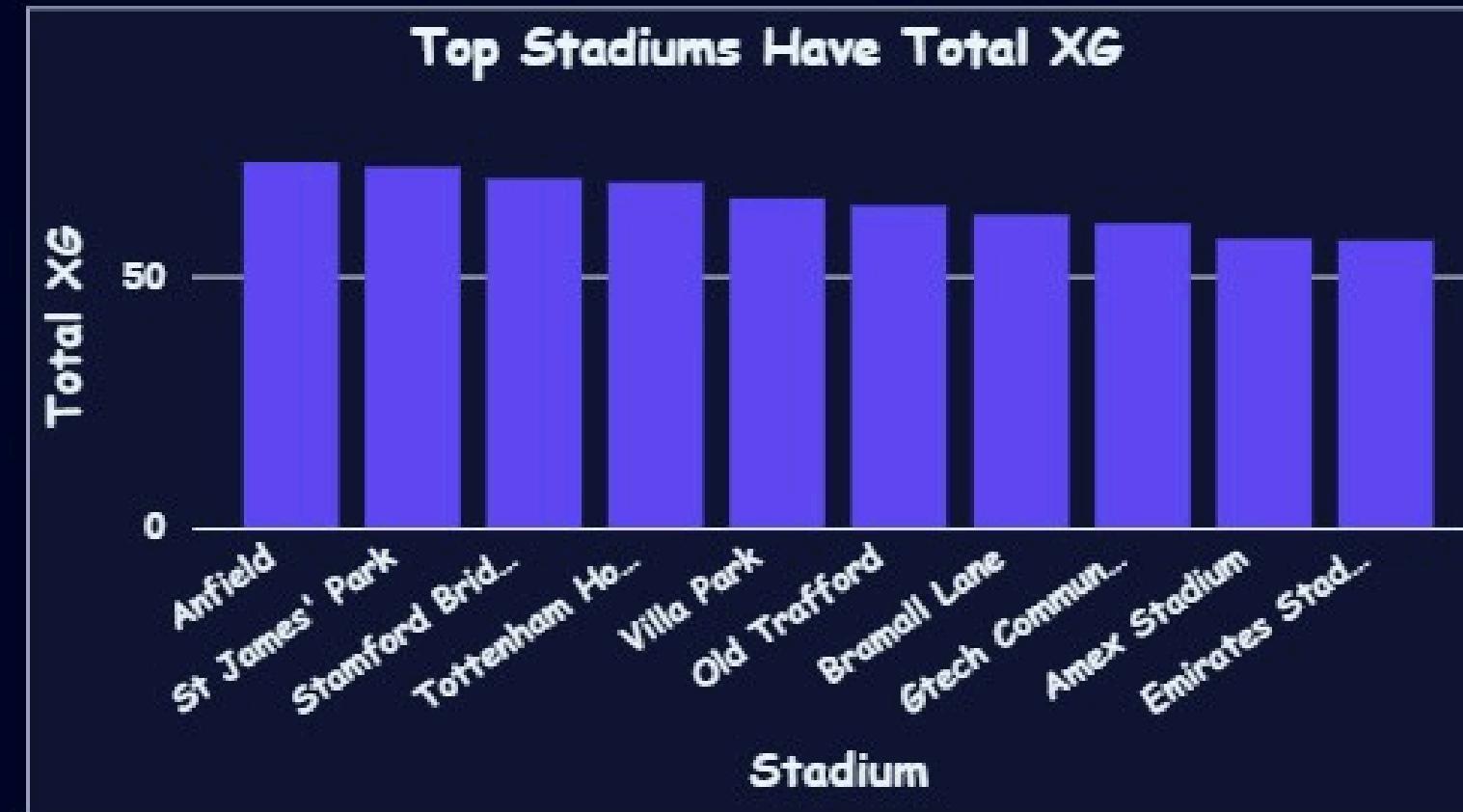
Player Analysis

Week

All

Team

All



...

INSIGHTS:

- Cole Palmer and Mohamed Salah were key contributors in both goals and assists.
- Doku led in progressive carries, showcasing his dribbling and movement.
- Rodri led in progressive passes, highlighting his line-breaking passing ability.
- Pascal Groß was the top defensive progressive passer, contributing to attack from the back.
- 3 of the top 10 big chance missers were Liverpool players, affecting their title hopes and leading to a 3rd-place finish.
- Phil Foden scored 8 goals over expected, playing a crucial role in Manchester City's title win.
- Haaland had the highest non-penalty expected goals (xG), proving his elite scoring instinct.
- Premier League clubs heavily depend on foreign players, with Brazilians being the most common.



Premier League



OUR INTERACTIVE_DASH_BOARD



World
Tournament



Continental
Championship



Domestic
Leagues



<https://app.powerbi.com/groups/me/reports/a5c8a14c-047f-4c39-87b1-bee8e1406804/41d097455ffed5bee28c?experience=power-bi>





THANK YOU



Final Thoughts

Thank you for your time! Football is more than just a game; it's a global phenomenon that unites people across cultures. Enjoy the game and keep the passion alive!

