

ENGLISH FOOTBALL

Presented By: Group 10



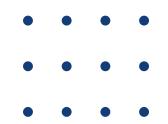


Content of the Dataset

The Fjelstul English Football Database is a comprehensive database of football matches played in the Premier League and the English Football League from the inaugural season of the Football League (1888-89) through the most recent season (2021-22). Joshua C. Fjelstul, Ph.D, created the database.

The dataset contains several tables, each with different types of data. The tables include the following:

- Seasons
- Teams
- Matches
- Appearances
- Standings



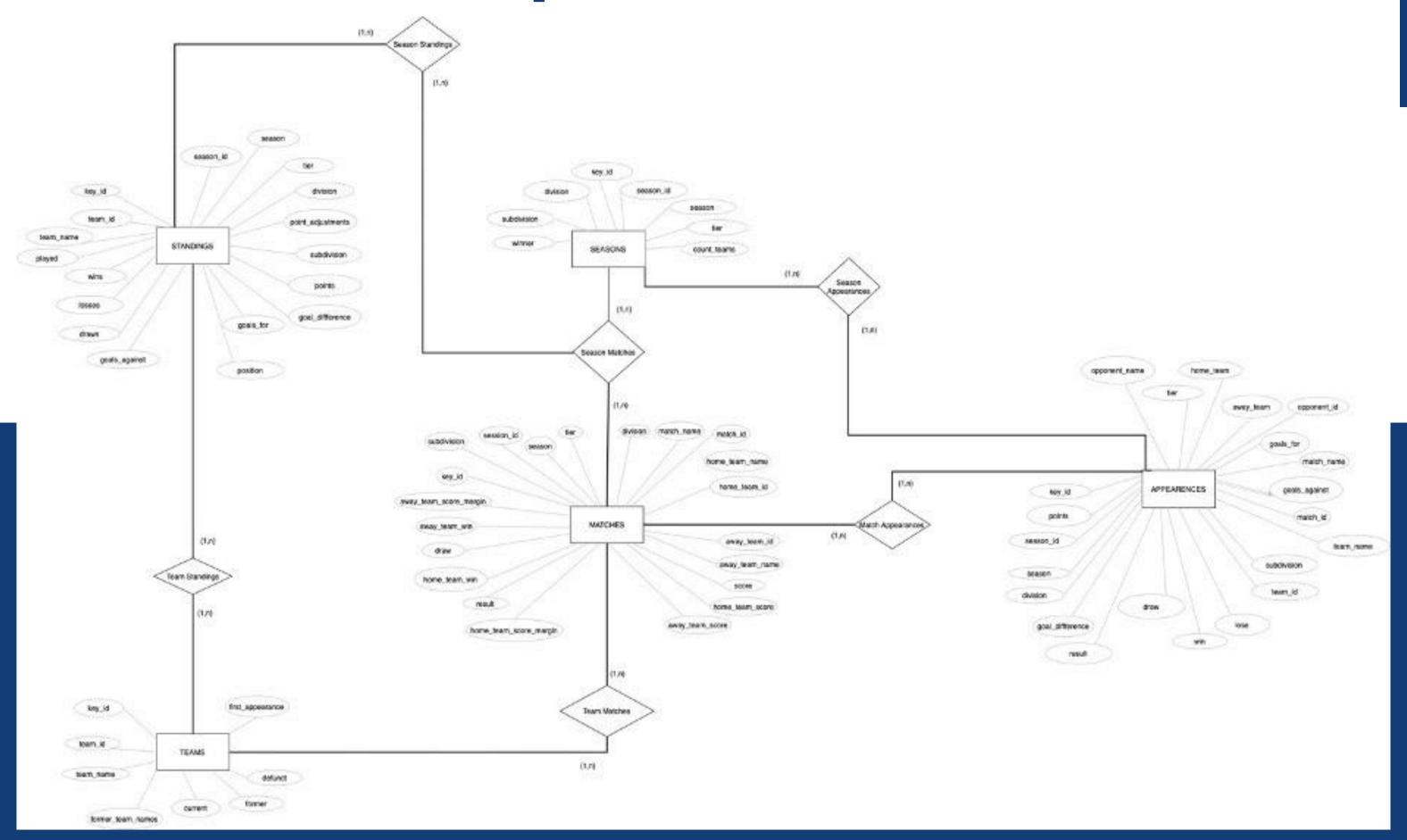
Business Objective

Here are some business objectives for this dataset that can be used:

- Performance Analysis
- Player Recruitment
- Sponsorship and Marketing
- Fan Engagement
- Betting and Fantasy Sports

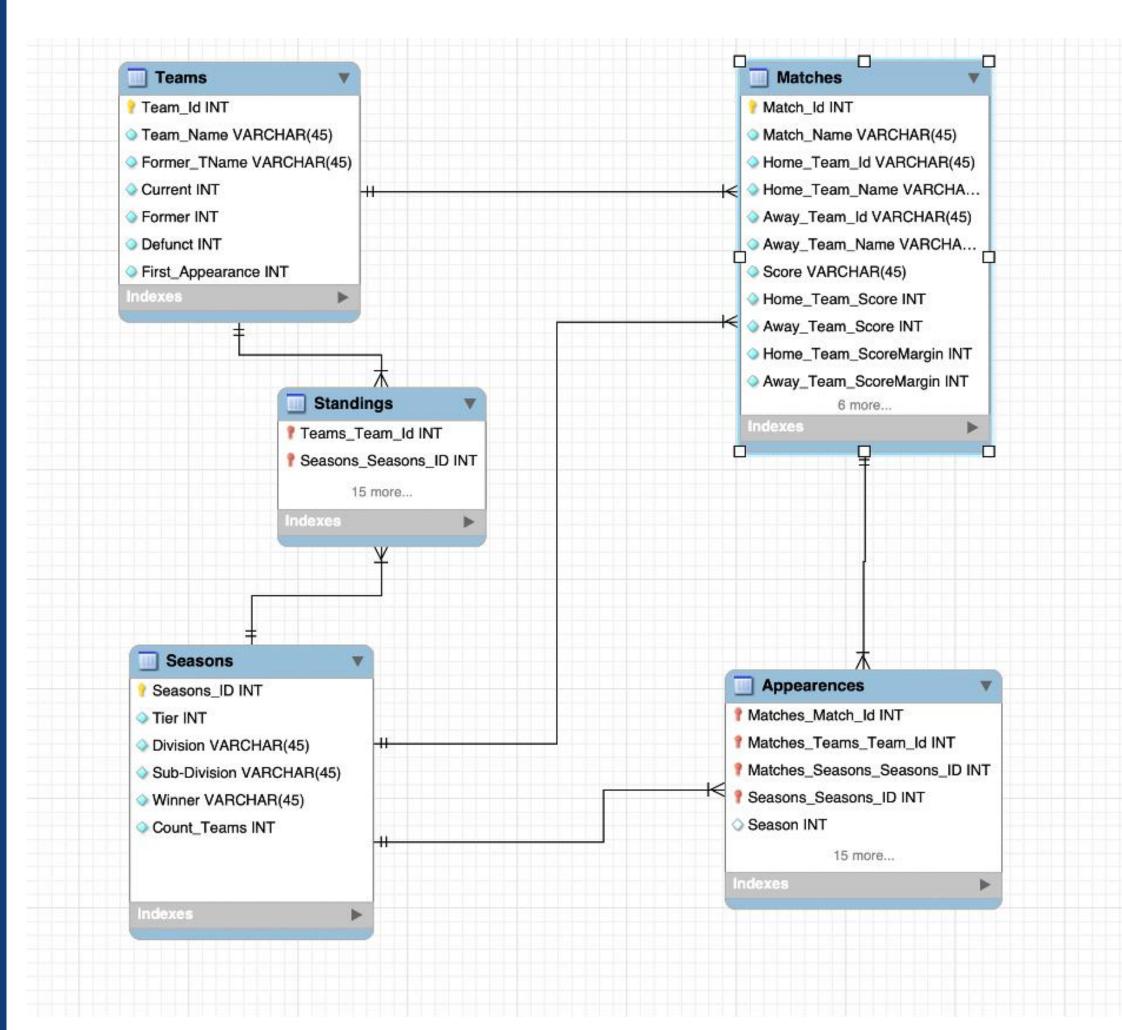


Conceptual Data Model





Logical Data Model





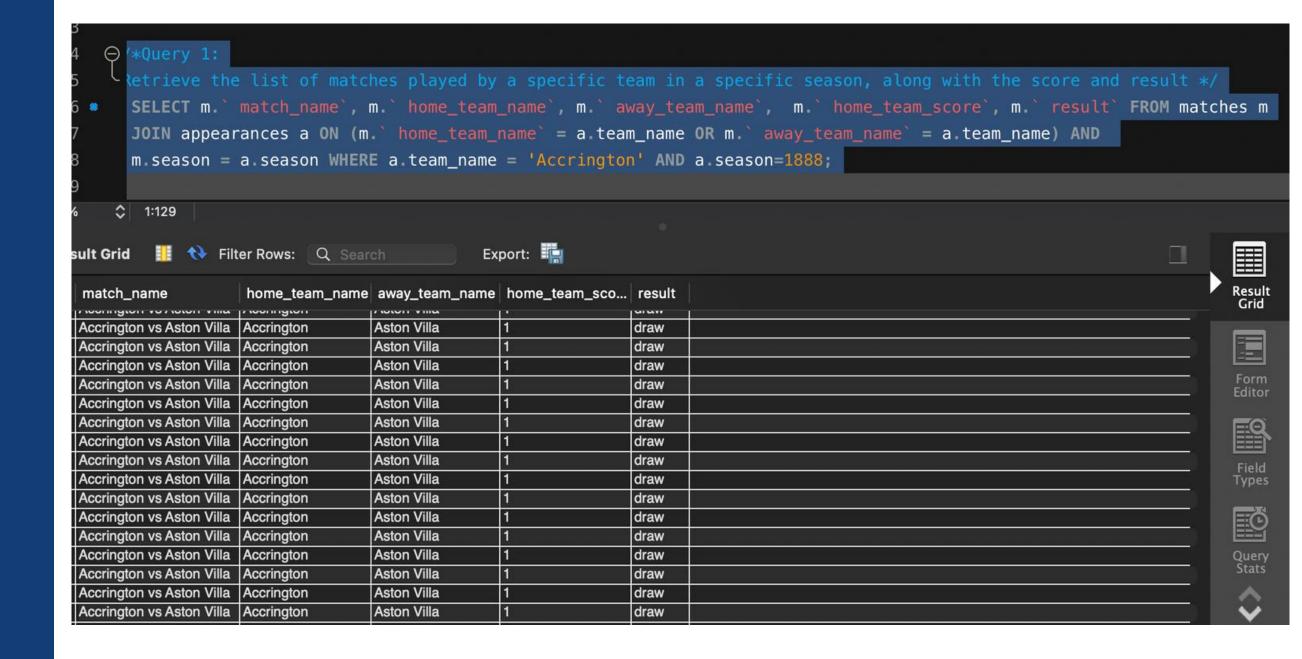
Physical Data Model With Commands

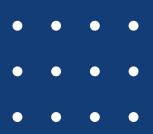
```
-- MySQL Workbench Forward Engineering
SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
SET @OLD SQL MODE=@@SQL MODE,
SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DAT
E,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';
-- Schema Football
-- Schema Football
CREATE SCHEMA IF NOT EXISTS 'Football' DEFAULT CHARACTER SET utf8;
USE `Football`;
-- Table `Football`.`Teams`
CREATE TABLE IF NOT EXISTS 'Football'. 'Teams' (
 'Team Id' INT NOT NULL,
 'Team Name' VARCHAR(45) NOT NULL,
 'Former_TName' VARCHAR(45) NOT NULL,
 'Current' INT NOT NULL,
 `Former` INT NOT NULL,
 'Defunct' INT NOT NULL,
 `First Appearance` INT NOT NULL,
PRIMARY KEY ('Team_Id'))
ENGINE = InnoDB;
```

Query 1:

Retrieve the list of matches played by a specific team in a specific season, along with the score and result.

We found all matches played by the team Accrington in season 1888 and the results.







SQL Used

```
SELECT m.` match_name`, m.`
home_team_name`, m.`
away_team_name`, m.`
home_team_score`, m.` result` FROM
matches m
JOIN appearances a ON (m.`
home_team_name` = a.team_name
OR m.`away_team_name` =
a.team_name) AND
m.season = a.season WHERE
a.team_name = 'Accrington' AND
a.season=1888;
```

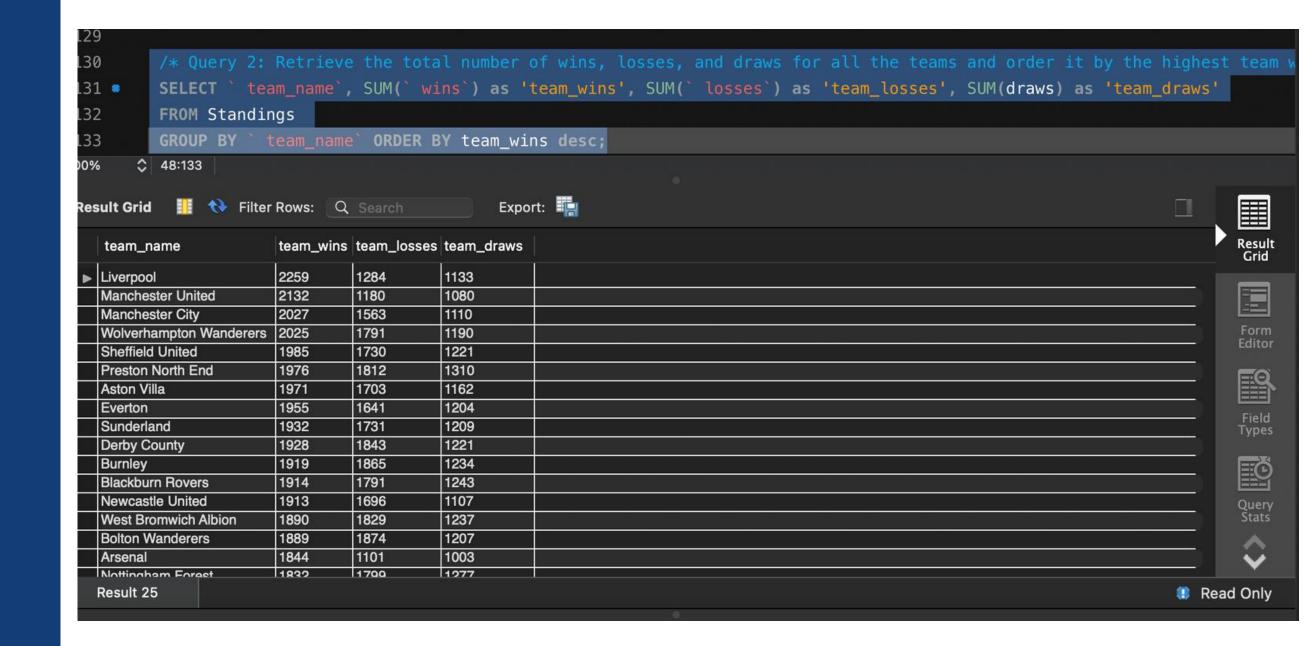




4	A	В	С	D	E	
1	Row Labels	▼ Count of match_name	Count of away_team_name	Sum of home_team_score	Count of result	
2	Accrington	242	242	572	242	
3	Aston Villa	22	22	88	22	
4	Blackburn Rovers	22			100	
5	Bolton Wanderers	22				
6	Burnley	22				
7	Derby County	22			10000M	
_	Everton	22			(2)(2)	
9	Notts County	22	22	66	22	
10	Preston North End	22	22	44	22	
11	Stoke	22	22	44	22	
12	West Bromwich Albion	22	22	44	22	
13	Wolverhampton Wandere	rs 22	22	88	22	
14	Grand Total	484	484	1254	484	
15 16 17 18						
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	500 400 300 200 100			Count of	Count of match_name Count of away_team_name Sum of home_team_score Count of result	
31 32 33 34 35 36 37	Actington Aster Villa Batthum Boyers	Dathy County Dethy County	Exerton Mottes County preston Month End Stake	and the Astronomy Warderen's		

Query 2: Retrieve the total number of wins, losses, and draws for all the teams and order it by the highest team wins.

We discovered that the team Liverpool had the most wins and the team Middlesbrough Ironopolis had the least.





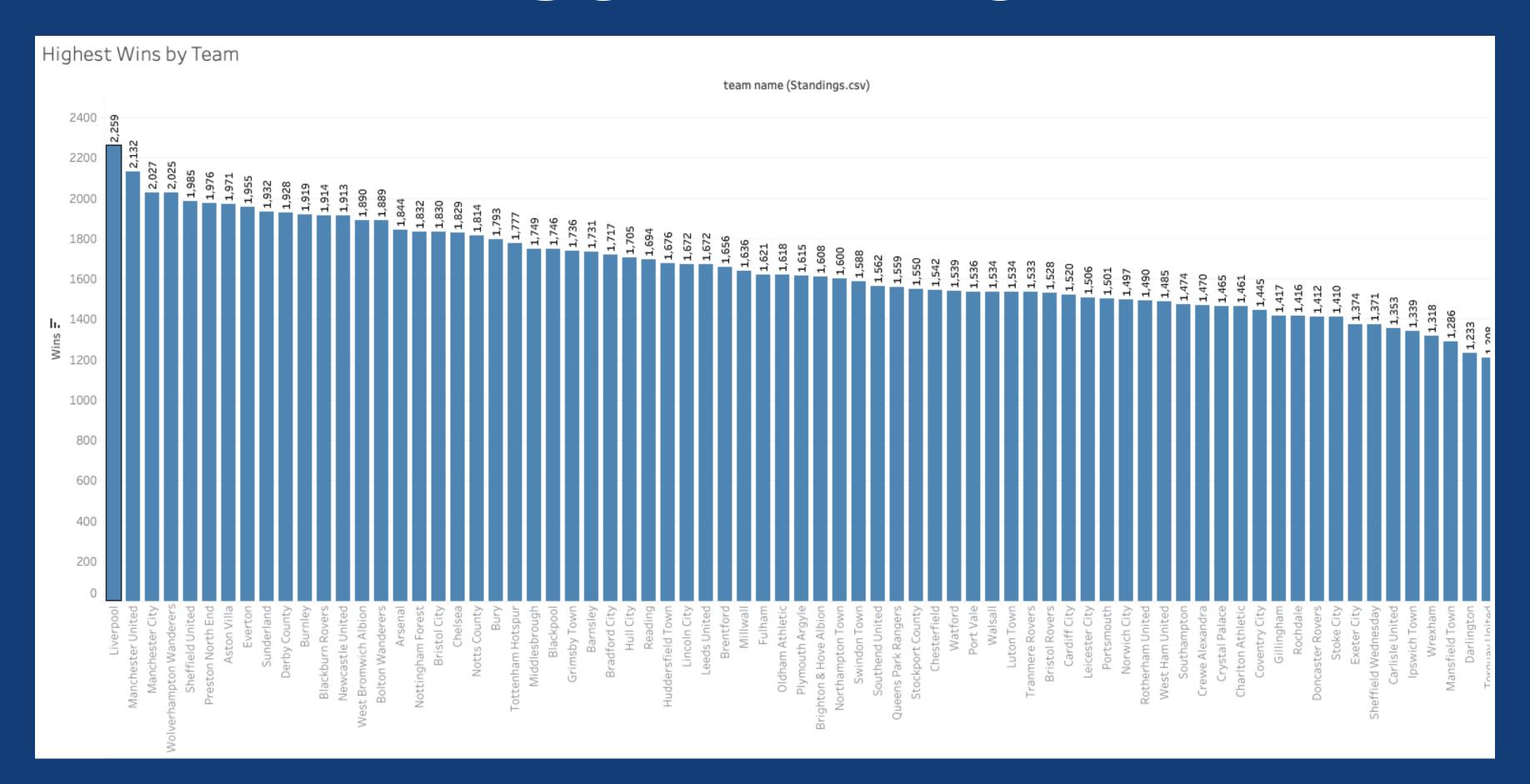


SQL Used

SELECT `team_name`, SUM(`wins`) as 'team_wins', SUM(`losses`) as 'team_losses',
SUM(draws) as 'team_draws'
FROM Standings
GROUP BY `team_name`
ORDER BY team_wins desc;

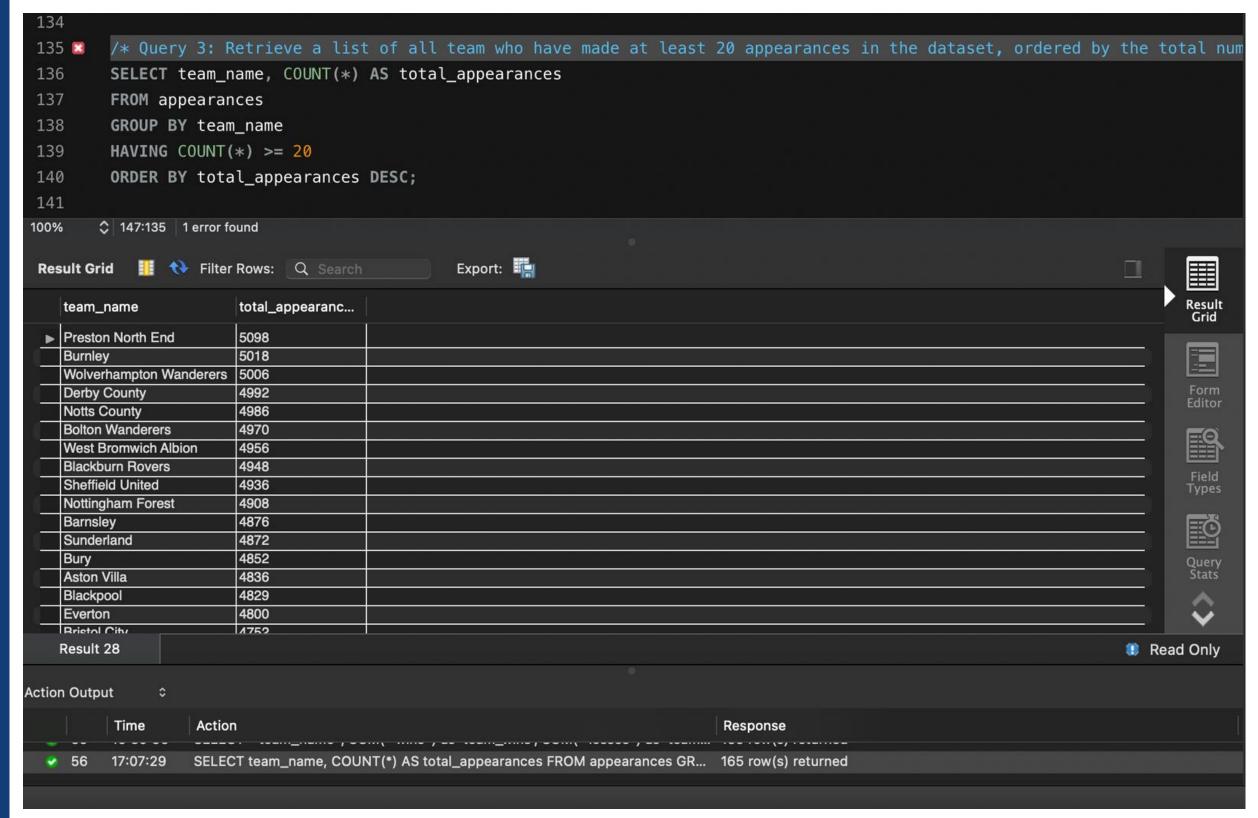


VISUALIZATION



Query 3: Retrieve a list of all team who have made at least 20 appearances in the dataset, ordered by the total number of appearances.

We can see that the team Preston North End had the most appearences out of any other team with a total of 5,098.



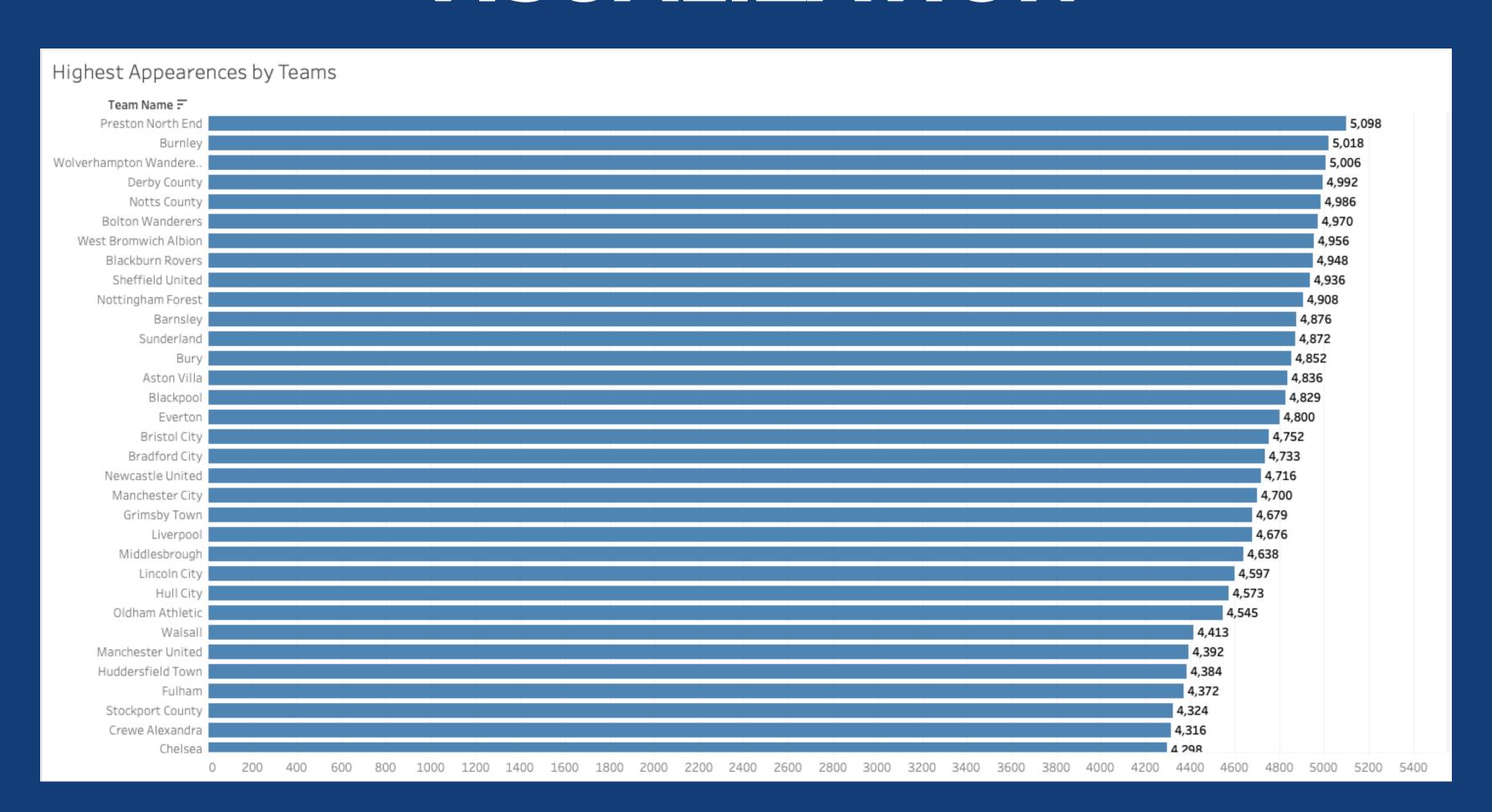






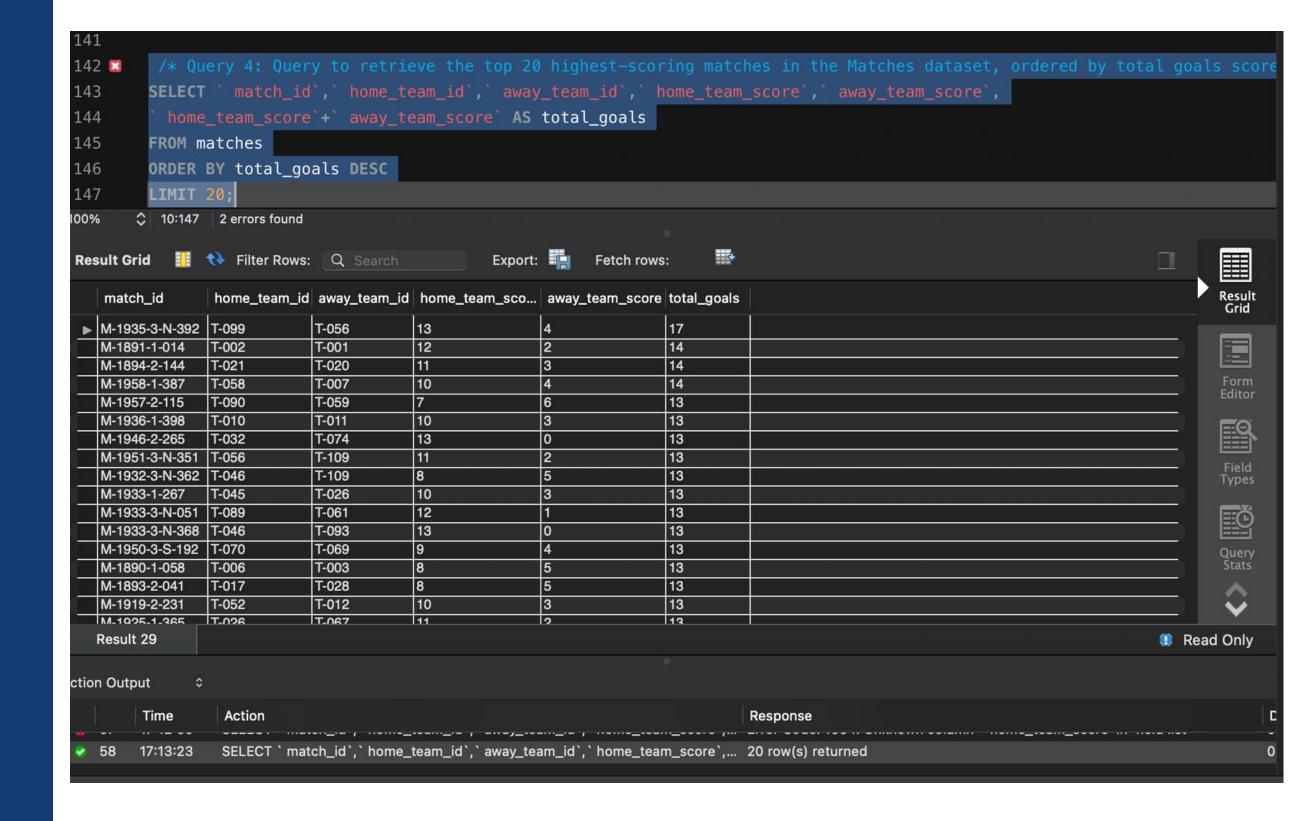
SELECT team_name, COUNT(*)
AS total_appearances
FROM appearances
GROUP BY team_name
HAVING COUNT(*) >= 20
ORDER BY total_appearances
DESC;

VISUALIZATION



Query 4: Query to retrieve the top 20 highest-scoring matches in the Matches dataset, ordered by total goals scored.

We can see that the most goals scored in any match was 17.

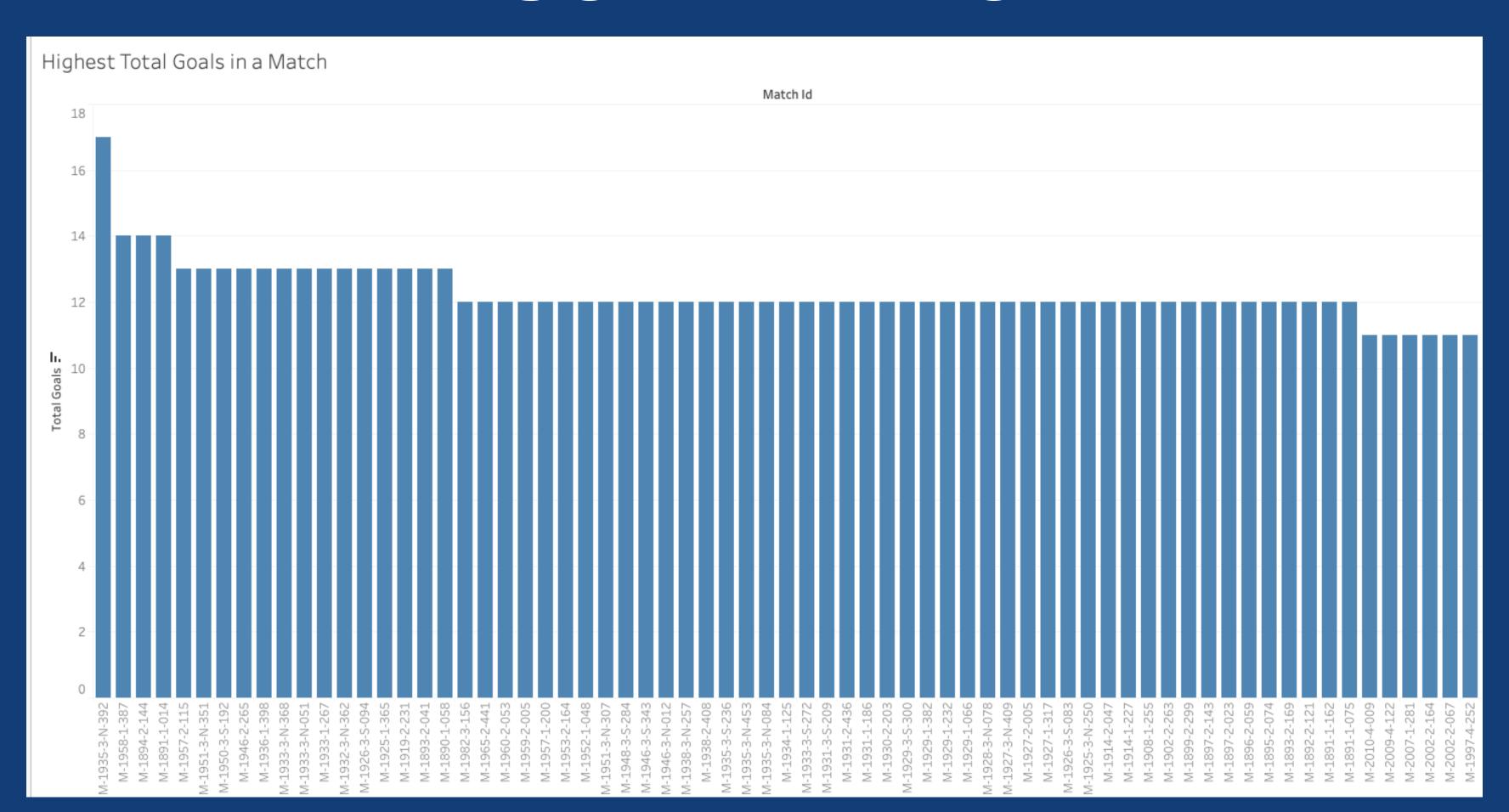




SQL Used

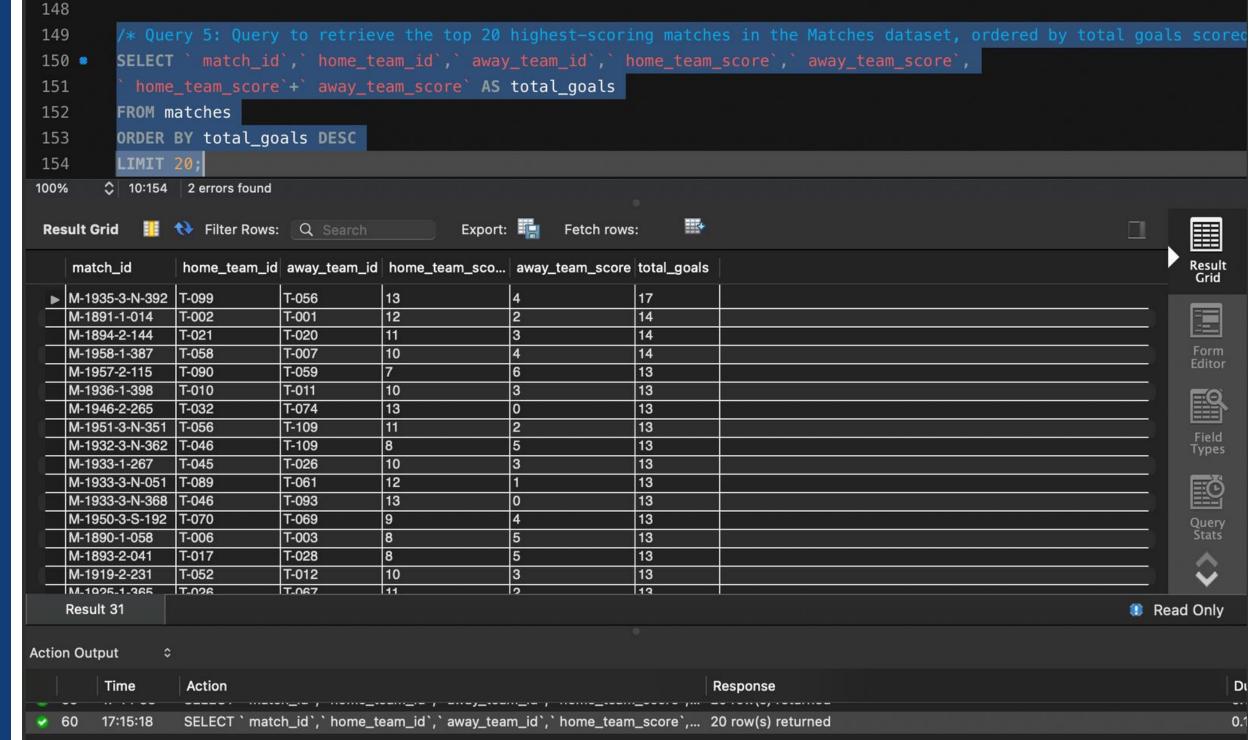
```
SELECT ` match_id`,`
home_team_id`,`
away_team_id`,`
home_team_score`,`
away_team_score`,`
home_team_score`+`
away_team_score` AS
total_goals
FROM matches
ORDER BY total_goals DESC
LIMIT 20;
```

VISUALIZATION



Query 5: Retrieve a list of all teams that have ever participated in the Premier League, along with the years they competed and their final standings for each season.

We found that all teams have played multiple matches every season.



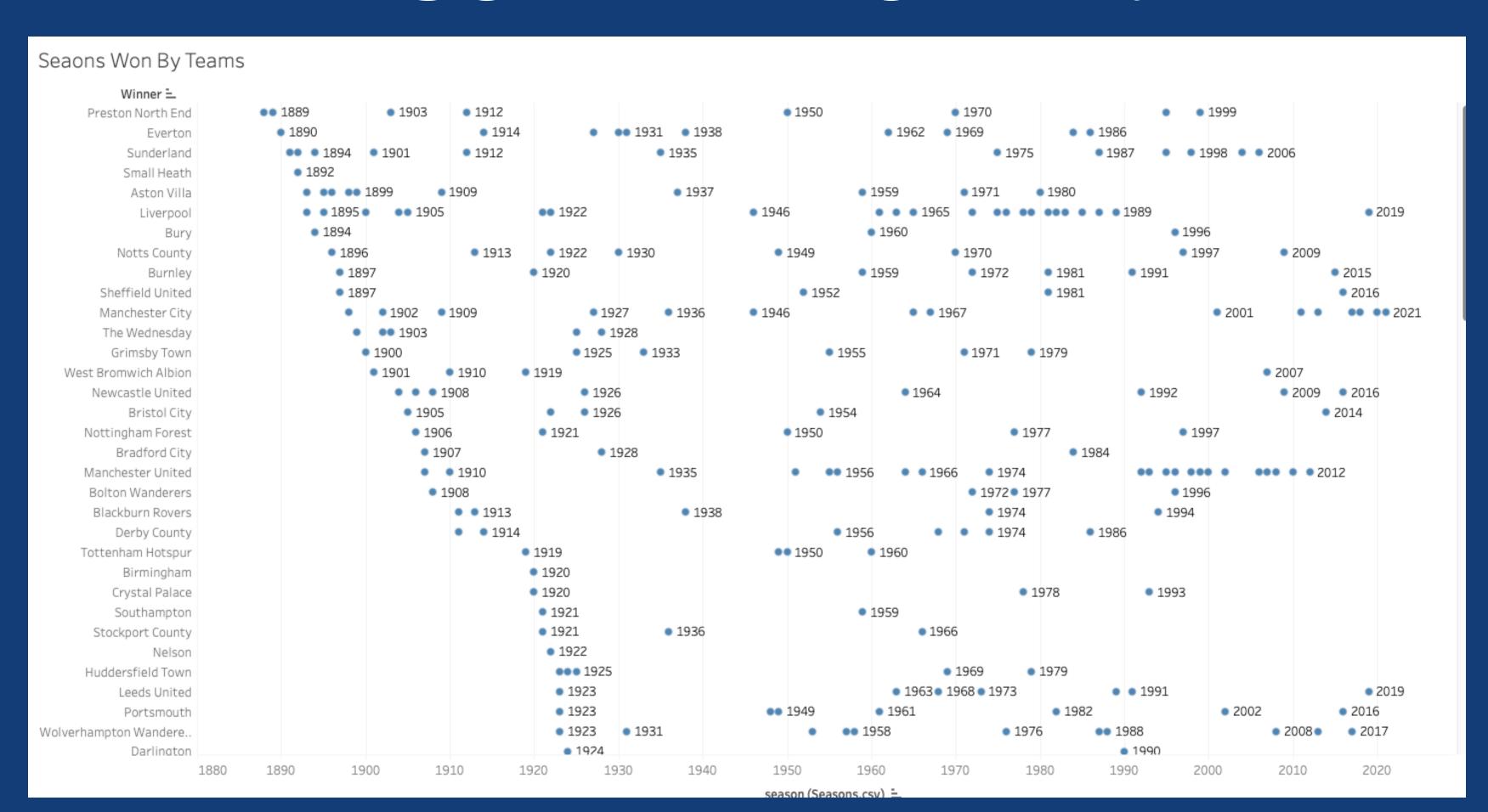




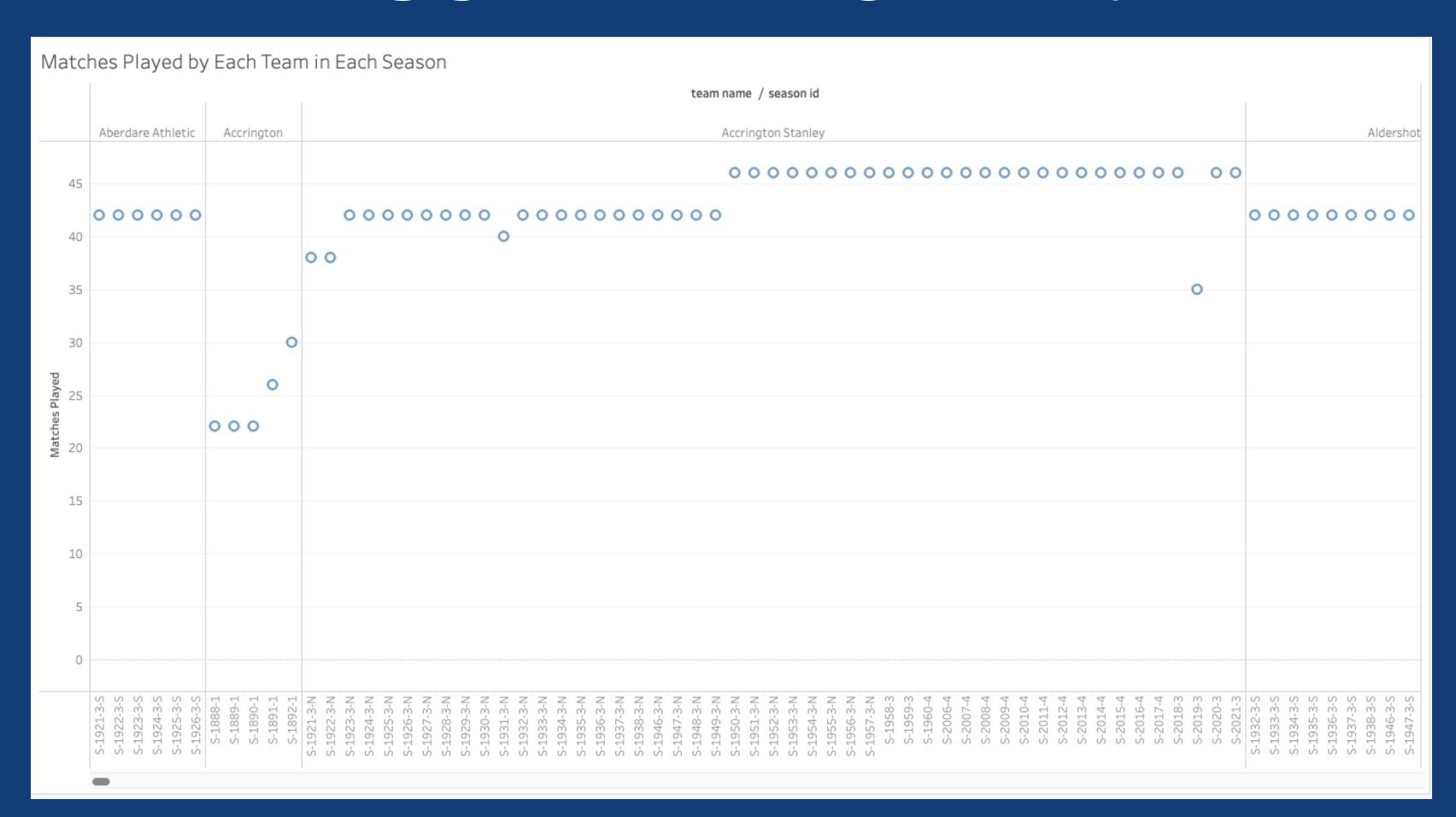
SQL Used

SELECT `team_name`, SUM(`wins`) as 'team_wins', SUM(`losses`) as 'team_losses',
SUM(draws) as 'team_draws'
FROM Standings
GROUP BY `team_name`
ORDER BY team_wins desc;

VISUALIZATION PT.1



VISUALIZATION PT.2



DATA SOURCE:

The Fjelstul English Football Database https://www.kaggle.com/datasets/sujaykapadnis/englis-h-football





THANK YOU