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Introduction

Group 5 will focus on extracting data on statistics for Players, coaches, and Teams for the top 25 teams that made it to March Madness. We are interested in finding how each of the players and team have performed leading up to March Madness. We will extract stats for players, teams, Coaches. We also hope to extract tv schedules and load it with scores as the games end.

Websites/data sources:

Player Stats-:

https://bleacherreport.com/articles/2954329-ranking-the-25-best-players-in-the-2022-mens-ncaa-tournament

https://basketball.realgm.com/ncaa/stats

Team Stats:

https://www.sports-reference.com/cbb/seasons/2022-school-stats.html

https://basketball.realgm.com/ncaa/team-stats#:~:text=2021-2022%20NCAA%20Averages%20-%20Team%20Totals%20%20,%20%2083.8%20%2014%20more%20rows%20

https://www.ncaa.com/stats/basketball-men/d1

Coach Stats:

https://www.espn.com/mens-college-basketball/story/_/id/33253706/ranking-2022-ncaa-tournament-men-basketball-coaches-players-1-68

TV Schedule:

http://www.guaranteedbasketballpicks.com/college-basketball-tv-schedule.htm#.YjKHNOrMIdV

Inspiration

https://www.reddit.com/r/CollegeBasketball/comments/te3lfc/2022_ncaa_tournament_guide/

Roles & Responsibilities

As a team we will scrape the website and transform the data followed by loading the data into a PostgreSQL database and analysis. We plan to work step-by-step to ensure that everyone is on the same page and to optimize our team skill set.

Database Design

We will create primarily a Player Table with a Primary Key and basic stats such as Average Points Per Game, Average Assists Per Game, and Player Rank. Further, we will include a Coaches Table with Team name and Coach Rank and a Team table with Field Goal percentage, 3-point-percentage, and Team Rank. In addition, we plan to include a TV schedule table with station information and time of the game as well as a Score Report table with game date, location, and final score. This last table, Score Report, will be updated daily to reflect the final game results.

Coaches	Player	Team	TV Schedule
Coach_id	Player_id	Team_id	Schedule_id
FirstName	Team_id	Coach_id	Station
LastName	FirstName	TeamName	Time
Coach Rank	LastName	FG%	Team1
	PPG	3P%	Team2
	APG	FT%	
	RPG	PPG	
	SPG	Team Rank	
	3P%		