

National Basketball Association (NBA) Mini-Database Progress Report 1

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Introduction

Millions of people watch the National Basketball Association (NBA) daily with a large percentage interested in stats of teams and players. The NBA mini-database will store basketball sports statistics for all players and teams in the league over the period of October 2017 - March 2020. Our PHP based user interface (UI) will allow users to look up statistics for all players on a single team, statistics for a player over their career, filter results by season, and much more.

Enhanced Entity Relationship Schema Diagram (EERD)

The following is the draft EERD for our database. Completion of the Relational Model and Functional Model may lead to necessary future changes to the EERD. These changes will be reported in future updates. A glossary will be provided in the final report that defines the statistical attributes shown in the diagram.

ERD Assumptions

The following assumptions and clarifications pertain to our entity relationship diagram:

- All teams play the same amount of games within a particular season
- Each game has a winner (i.e. the table only contains historical data on games, does not include data on future games)
- In the CoachStats entity, the following attribute names are somewhat ambiguous upon first read:
 - CurrentGamesCoached refers to the number of games a coach has acted in any coaching role within the coach's current tenure with the team
 - CurrentGamesWon refers to the number of games won by the coach during their current tenure with the team
 - CurrentGamesLost refers to the number of games lost by the coach during their current tenure with the team
- Each member in the league has a unique LastFirstName combination

Project Update

Appendix A displays the proposed schedule for our project. Although the task of obtaining data from the internet through scrapping has been completed, the data has not been fully cleaned. The data will be cleaned next week according to the schedule.

We have begun to look into the Front-end for the project. A simple mock-up of the user interface for the database was created in HTML and CSS as shown in Appendix B. We are still investigating how PHP will connect the database with the user interface. Our primary goal for the week ending March 22, is to complete cleaning the data and begin creation of the database.

Appendix A: Proposed Project Schedule

Task	Deadline	Responsible	Completion Status
Scrape data from web	March 13, 2020	Peter, Jason, Thomas	Complete
Entity Relationship Diagram	March 15, 2020	Peter, Jason, Thomas	Complete
Clean raw data	March 18, 2020	Thomas	In progress
Create functional database	March 20, 2020	Jason	Pending
Backend completed	March 23, 2020	Peter	Pending
Relational Model	March 29, 2020	Thomas, Jason	Pending
Frontend completed	April 10, 2020	Peter, Jason, Thomas	In progress
Functional Model	April 12, 2020	Peter, Jason	Pending
Final Report	April 15, 2020	Peter, Jason, Thomas	Pending

Appendix B: Website Mock-up

The following image is a screenshot of the conceptual user interface used to interact the mini-database.

