CIS451

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Final project summery

We are going to make a database schema of NBA 2016-2017 regular season, containing 9 tables: team, player, player\_performance, team\_performance, game, award, award\_granted, coach, injury. All data is going to be crawled from <http://stats.nba.com/>. We aimed at practicing our database manipulating skill as well as data crawling skill. We are also going to make a website that performs the functionality based on our database schema.

For basic functionality:

1. Click on a button to have the information of the team.
2. Input a team name to have the player info of this team.
3. Input name of a player’s name for his more info.
4. Input a team name to have the game info for this team within the season.
5. Input a team name to have the injury info of this team
6. Input a team name to have the award info of this team.

For advanced functionality:

1. Input two team names to have the game info between them
2. Input the value and the type of the stat to show the players with higher average of such stat.
3. Input two team names to have the game info between them
4. Input a jersey number to show the top 3 players in this jersey in terms of point per game

Conclusion

It has been a happy time for two of us to make such a database based simple website, no only because we are both die hard fen of NBA, but also we learned much about how to use database for actual application. Database is such a useful tool for people to store and analysis data. If time permits, we might work on more fancy SQL queries to have a better understanding of every team and every player’s performance.

User Guide:

Welcome to NBA 2016-2017 season! This website is aiming at providing any NBA information of this season. You will find the web-page is extremely easy to be used by following the text.

For your convenience, we provide team names or player names to you in the table in case they are needed for some further data selection or analysis. The database is on UO ix.cs.uoregon.edu server, so feel free to get into it and look at our database schema.