

Sample Queries

- *Sample 1:*

- Purpose:

Displays the **names** of the **top 10 players** who lead the NBA in the average blocks per game (BPG) category of statistics.

➤ SQL Statement:

```
SELECT CONCAT(Fname, ' ', Lname) AS  
PlayerName, BPG  
FROM PLAYED_FOR  
JOIN PLAYER USING (PlayerId)  
ORDER BY BPG DESC  
LIMIT 10;
```

➤ Output:

Player Name	WPA
Myke Turner	2.50
Anthony Davis	2.50
Michael Robinson	2.40
Hardy Gaskard	2.30
Don Kilgus	2.30
Harmon Nicksa	2.00
Joe Enfield	1.90
Jeff Smith, GM	1.80
Karl Anthony Towns	1.70
Andre Drummond	1.70



- *Sample 2:*

➤ Purpose:

Displays the **name of teams** and their corresponding **number of championships**.

➤ SQL Statement:

```
SELECT TeamName, Championships
FROM TEAM
ORDER BY Championships DESC;
```

➤ Output:

[illegible]

TEAM AVATAR
NBA Database

Jenny Topping, Nathan Phau, Douglas Flinn, Aron Chappin



Motivation

A lot of **people watch and want to keep track** of the **NBA**. Naturally, people would want to view data on NBA related things for different reasons.

Application

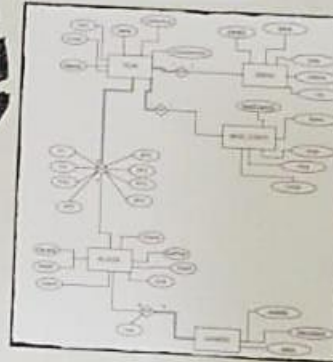
- For **NBA teams** to determine whether a player is playing well
- For **Fantasy League** users to see if their current fantasy roster is playing well.
- For **NBA fans** to look up trivial information of their favorite team and players, such as birthdate, age, height, and more.



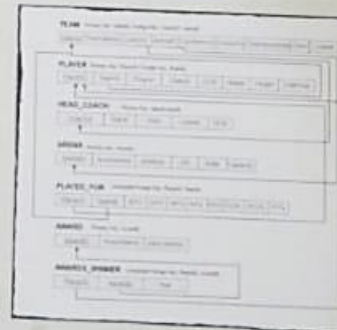
Tool Details

- DBMS: MySQL Workbench CE
- UI: HTML/CSS
- Version Control: Github
- Web Server: USB Webserver

- *ER Diagram*



- *RM Schema*



Methodology

1. Getting Data

Used <http://basketball-reference.com> as a source for the data. We input the data manually into a spreadsheet first.



2. Creating Database

Used **MySQL Workbench** to create the database. Used SQL syntax such as **creating tables**, **inserting values**, and **basic queries**.

3. Inputting Data

Created a **Python** program that **converts csv** file to a **text** file that follows the **syntax** of a **SQL** value input:

Country	Source	Address	City	State	Country	Telephone
1	Worldwide Medical Center	620 Montgomery Boulevard	Calgary	AB	Canada	(403) 242-1100
2	Worldwide Medical Center	2400 - Glenora Avenue	Calgary	AB	Canada	(403) 242-1100
3	Worldwide Medical Center	400 West 17th Street S.W.	Calgary	AB	Canada	(403) 242-1100
4	Worldwide Medical Center	1000 - 17th Street S.W.	Calgary	AB	Canada	(403) 242-1100
5	Worldwide Medical Center	1000 - 17th Street S.W.	Calgary	AB	Canada	(403) 242-1100
6	Worldwide Medical Center	1000 - 17th Street S.W.	Calgary	AB	Canada	(403) 242-1100
7	Worldwide Medical Center	1000 - 17th Street S.W.	Calgary	AB	Canada	(403) 242-1100
8	Worldwide Medical Center	1000 - 17th Street S.W.	Calgary	AB	Canada	(403) 242-1100
9	Worldwide Medical Center	1000 - 17th Street S.W.	Calgary	AB	Canada	(403) 242-1100
10	Worldwide Medical Center	1000 - 17th Street S.W.	Calgary	AB	Canada	(403) 242-1100

4. Building Website

Used **USBWebserver** for our website. Used **ngrok.io** as our web host.