

NBA Net Numbers

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Introduction

The NBA is one of the most popular sports leagues in the world, with teams in cities across the United States and Canada.

It is known for its high level of play and the skills of its players, who are some of the best athletes in the world.

What causes a team to win?

- Rebounds
- Assists
- Field Goal Percentage

What is ...

Assist



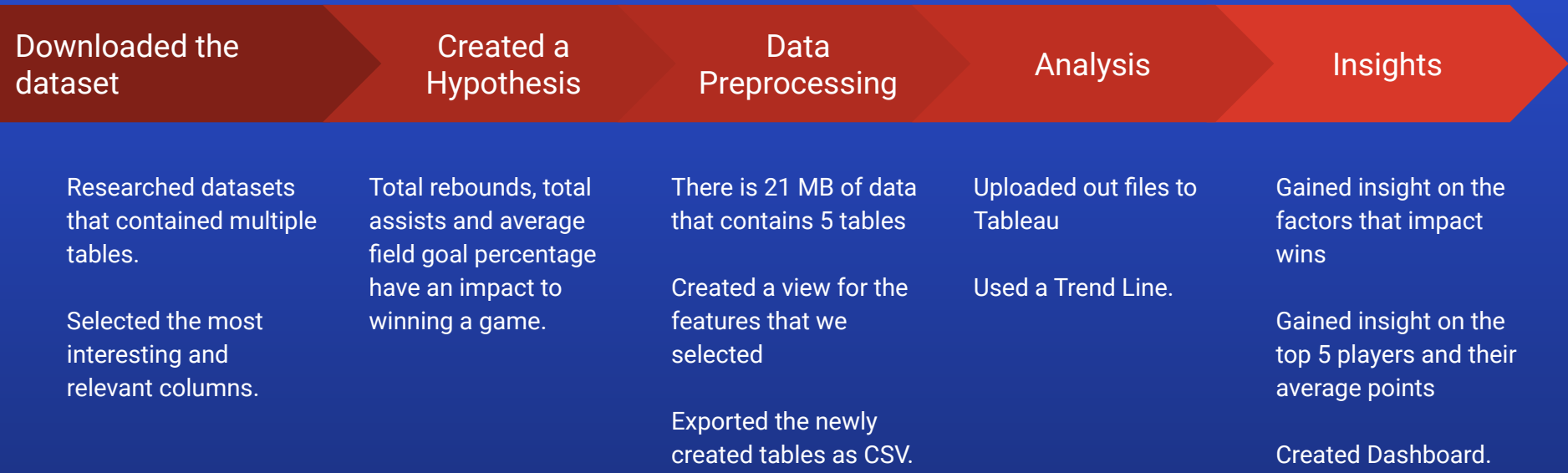
Rebound



Field Goal



Our Approach



“Keep it super simple stupid”

- Balazs Zombory

Data Cleaning



Steps we took in order to clean the Dataset :

- Create views and CTE's,
- Different types of Joins
- Aggregate functions such a sum, avg etc...
- Filter by using group by and order by,
- Created new tables using CTE's



Data Cleaning Cont.



Empty strings: In Mac, when we imported the data using GUI, we could not change the datatypes of our columns because of empty string rows

Duplicate rows:

- Primary and Foreign Key relationships -

Entity Integrity Constraint Violation

- Deleted duplicate row from our recreated table, not
The original table.

```
select * from postgres.public.xf_players  
where "PLAYER_ID" = 203146 and  
"SEASON" = 2012 ;
```

players 1 ×

from postgres.public.xf_players where Enter a SQL expression to filter re

PLAYER_NAME	TEAM_ID	PLAYER_ID	SEASON
Maalik Wayns	1,610,612,746	203,146	2,012
Maalik Wayns	1,610,612,755	203,146	2,012

Data Cleaning Cont.



Duplicate Column: While joining the tables, the following error occurred due to all the table having the same column name “Team_ID”.



SQL Error [42701]: ERROR: column "ABBREVIATION" specified more than once

In order to resolve the error, we renamed the column name from one of the tables.

```
ALTER TABLE postgres.public.totalAST15  
RENAME COLUMN "TEAM_ID" TO "TEAM2_ID";
```

Insights

Dashboard

Data Fouls

2016

player_details_2 1 ×			
select avg("PTS") as "avg_player_pts", "PLAYI" Enter a SQL expression to filter			
Grid	123 avg_player_pts	ABC PLAYER_NAME	123 TID
Text	1	26.9577836412	Kevin Durant
	2	26.8254994125	LeBron James
	3	24.9672131148	Joel Embiid
	4	24.4445430346	James Harden
	5	24.315018315	Damian Lillard

	ABC ABBREVIATION	ABC NICKNAME	123 TEAM_ID	123 AVG_WPCT	123 total_AST	123 total_REB	123 total_AVGPCT
1	GSW	Warriors	1,610,612,744	0.8137470588	3,158	4,745	0.4938113208
2	SAS	Spurs	1,610,612,759	0.7662470588	2,430	4,575	0.4673942308
3	CLE	Cavaliers	1,610,612,739	0.6872117647	2,403	4,576	0.4735566038
4	HOU	Rockets	1,610,612,745	0.6697	2,425	4,414	0.45955
5	LAC	Clippers	1,610,612,746	0.6498058824	2,106	4,018	0.4725589539