

NBA Wins

Dan Fanelli

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NBA (Daniel Brooks)

Do to my love of sports, I found the franchise wins for each NBA basketball team from 1946-2015:

http://www.basketball-reference.com/leagues/NBA_wins.html

Analysis:

- 1) Most overall wins in franchise history of the lifetime of the NBA/BBA
- 2) Most wins by a team over the time span
- 3) Most wins by a team by year

```
library(dplyr)

get_base_data <- function(){
  nba_df <- read.csv("leagues_NBA_wins_active.csv", header = TRUE, sep = ",") %>%
    filter(Rk != 'Rk', Season != 'Total')
  # take the dashes out - this is going to have to be a matrix at some point later...
  nba_df$Season <- gsub("-", "", nba_df$Season)
  return (nba_df)
}

get_winners <- function(subset_df){
  the_teams_names <- colnames(subset_df)
  mtrx <- matrix(as.numeric(unlist(subset_df)),nrow=nrow(subset_df))
  df <- as.data.frame(colSums(mtrx))
  colnames(df) <- c("wins")
  df$team <- the_teams_names
  head(arrange(df, desc(wins)), n=10)
}

most_wins_total <- function(){
  get_base_data() %>%
    subset(select = -c(Rk,Season,Lg)) %>%
    get_winners()
}

most_wins_for_interval <- function(start_season, end_season){
  start_season <- gsub("-", "", start_season)
  end_season <- gsub("-", "", end_season)

  get_base_data() %>%
    subset(select = -c(Rk,Lg)) %>%
    filter(Season >= start_season & Season <= end_season) %>%
    subset(select = -c(Season)) %>%
    get_winners()
}
```

```

}

most_wins_for_specific_season <- function(season){
  most_wins_for_interval(season, season)
}

```

Most Wins:

```
most_wins_total()
```

```

##      wins team
## 1   2217  BOS
## 2   2204  LAL
## 3   2040  PHI
## 4   1725  DET
## 5   1703  NYK
## 6   1588  GSW
## 7   1475  PHO
## 8   1470  SAC
## 9   1452  SAS
## 10  1433  CHI

```

Most wins by a team over the time span

```
most_wins_for_interval('1990-91', '1999-00')
```

```

##      wins team
## 1    471  UTA
## 2    405  CHI
## 3    400  SAS
## 4    386  OKC
## 5    341  PHO
## 6    320  DEN
## 7    318  MIA
## 8    308  LAL
## 9    308  POR
## 10   306  NYK

```

Most wins by a team by year

```

# Lakers went 63-19 in 89-90
most_wins_for_specific_season('1989-90')

```

```

##      wins team
## 1     62  CHI
## 2     62  UTA
## 3     61  SAC

```

| | | | |
|----|----|----|-----|
| ## | 4 | 58 | MIA |
| ## | 5 | 58 | ORL |
| ## | 6 | 50 | LAL |
| ## | 7 | 47 | DET |
| ## | 8 | 47 | POR |
| ## | 9 | 45 | PHO |
| ## | 10 | 41 | MIN |