DSAC NFL Project (Data Cleaning)

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```r
# libraries
library(janitor)
```

```
##
## Attaching package: 'janitor'

## The following objects are masked from 'package:stats':
##
##     chisq.test, fisher.test
```

```r
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```r
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --

## v ggplot2 3.3.5     v purrr   0.3.4
## v tibble  3.1.6     v stringr 1.4.0
## v tidyr   1.1.4     v forcats 0.5.1
## v readr   2.1.0

## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(tidymodels)
```

```
## Registered S3 method overwritten by 'tune':
##   method                  from
##   required_pkgs.model_spec parsnip


## -- Attaching packages ------------------------------------ tidymodels 0.1.4 --

## v broom        0.7.10     v rsample      0.1.1
## v dials        0.0.10     v tune         0.1.6
## v infer        1.0.0      v workflows    0.2.4
## v modeldata    0.1.1      v workflowsets 0.1.0
## v parsnip      0.1.7      v yardstick    0.0.8
## v recipes      0.1.17


## -- Conflicts ----------------------------------------- tidymodels_conflicts() --
## x scales::discard() masks purrr::discard()
## x dplyr::filter()   masks stats::filter()
## x recipes::fixed()  masks stringr::fixed()
## x dplyr::lag()      masks stats::lag()
## x yardstick::spec() masks readr::spec()
## x recipes::step()   masks stats::step()
## * Use tidymodels_prefer() to resolve common conflicts.
```

```
library(naniar)
```

College Football QB Stats by Year (1999-2019)

Link to the 2005 Data Set (all others are easily accessible from this link):

https://www.sports-reference.com/cfb/years/2005-qbing.html

Data Cleaning

```
# Steps
   # 1. Make first row the column name
   # 2. Eliminate Rk column
   # 3. Rename columns to deal with duplicate column names
   # 4. Add new column to indicate year
      # Repeat 1-4 for all data frames
   # 5. rbind() all data sets together

qb.1999 <- qb.1999 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```
qb.1999$Rk <- NULL
colnames(qb.1999) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.1999$Year <- 1999

qb.2000 <- qb.2000 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2000$Rk <- NULL
colnames(qb.2000) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2000$Year <- 2000

qb.2001 <- qb.2001 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2001$Rk <- NULL
colnames(qb.2001) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2001$Year <- 2001

qb.2002 <- qb.2002 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2002$Rk <- NULL
colnames(qb.2002) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2002$Year <- 2002

qb.2003 <- qb.2003 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2003$Rk <- NULL
colnames(qb.2003) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2003$Year <- 2003

qb.2004 <- qb.2004 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2004$Rk <- NULL
colnames(qb.2004) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2004$Year <- 2004

qb.2005 <- qb.2005 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2005$Rk <- NULL
colnames(qb.2005) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2005$Year <- 2005

qb.2006 <- qb.2006 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2006$Rk <- NULL
colnames(qb.2006) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2006$Year <- 2006

qb.2007 <- qb.2007 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2007$Rk <- NULL
colnames(qb.2007) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2007$Year <- 2007

qb.2008 <- qb.2008 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2008$Rk <- NULL
colnames(qb.2008) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2008$Year <- 2008

qb.2009 <- qb.2009 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2009$Rk <- NULL
colnames(qb.2009) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2009$Year <- 2009

qb.2010 <- qb.2010 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2010$Rk <- NULL
colnames(qb.2010) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2010$Year <- 2010

qb.2011 <- qb.2011 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2011$Rk <- NULL
colnames(qb.2011) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2011$Year <- 2011

qb.2012 <- qb.2012 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2012$Rk <- NULL
colnames(qb.2012) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2012$Year <- 2012

qb.2013 <- qb.2013 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2013$Rk <- NULL
colnames(qb.2013) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2013$Year <- 2013

qb.2014 <- qb.2014 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```r
qb.2014$Rk <- NULL
colnames(qb.2014) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2014$Year <- 2014

qb.2015 <- qb.2015 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```
qb.2015$Rk <- NULL
colnames(qb.2015) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2015$Year <- 2015

qb.2016 <- qb.2016 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```
qb.2016$Rk <- NULL
colnames(qb.2016) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2016$Year <- 2016

qb.2017 <- qb.2017 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```
qb.2017$Rk <- NULL
colnames(qb.2017) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2017$Year <- 2017

qb.2018 <- qb.2018 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```
qb.2018$Rk <- NULL
colnames(qb.2018) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2018$Year <- 2018

qb.2019 <- qb.2019 %>%
  row_to_names(row_number = 1)
```

```
## Warning in row_to_names(., row_number = 1): Row 1 does not provide unique names.
## Consider running clean_names() after row_to_names().
```

```
qb.2019$Rk <- NULL
colnames(qb.2019) <- c("Player", "School", "Conf", "G", "Pass.Cmp", "Pass.Att", "Pass.Pct", "Pass.Yds",
qb.2019$Year <- 2019

ncaa.data <- rbind(qb.1999, qb.2000, qb.2001, qb.2002, qb.2003, qb.2004, qb.2005, qb.2006, qb.2007, qb.
```

```r
# Remove asterik's from certain names

library(stringr)
ncaa.data$Player <- stringr::str_replace(ncaa.data$Player, "\\*", "")
```

```r
# Games
ncaa.data$G <- as.numeric(ncaa.data$G)
G <- summarise_at(group_by(ncaa.data, Player), vars(G), funs(sum))[2]
```

```
## Warning: 'funs()' was deprecated in dplyr 0.8.0.
## Please use a list of either functions or lambdas:
##
##   # Simple named list:
##   list(mean = mean, median = median)
##
##   # Auto named with 'tibble::lst()':
##   tibble::lst(mean, median)
##
##   # Using lambdas
##   list(~ mean(., trim = .2), ~ median(., na.rm = TRUE))
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was generated.
```

```r
# Pass.Cmp
ncaa.data$Pass.Cmp <- as.numeric(ncaa.data$Pass.Cmp)
Pass.Cmp <- summarise_at(group_by(ncaa.data, Player), vars(Pass.Cmp), funs(sum))[2]

# Pass.Att
ncaa.data$Pass.Att <- as.numeric(ncaa.data$Pass.Att)
Pass.Att <- summarise_at(group_by(ncaa.data, Player), vars(Pass.Att), funs(sum))[2]

# Pass.Pct
ncaa.data$Pass.Pct <- as.numeric(ncaa.data$Pass.Pct)
Pass.Pct <- summarise_at(group_by(ncaa.data, Player), vars(Pass.Pct), funs(mean))[2]

# Pass.Yds
ncaa.data$Pass.Yds <- as.numeric(ncaa.data$Pass.Yds)
Pass.Yds <- summarise_at(group_by(ncaa.data, Player), vars(Pass.Yds), funs(sum))[2]

# Pass.Y.A
ncaa.data$Pass.Y.A <- as.numeric(ncaa.data$Pass.Y.A)
Pass.Y.A <- summarise_at(group_by(ncaa.data, Player), vars(Pass.Y.A), funs(mean))[2]

# Pass.AY.A
ncaa.data$Pass.AY.A <- as.numeric(ncaa.data$Pass.AY.A)
Pass.AY.A <- summarise_at(group_by(ncaa.data, Player), vars(Pass.AY.A), funs(mean))[2]

# Pass.TD
ncaa.data$Pass.TD <- as.numeric(ncaa.data$Pass.TD)
Pass.TD <- summarise_at(group_by(ncaa.data, Player), vars(Pass.TD), funs(sum))[2]

# Pass.Int
ncaa.data$Pass.Int <- as.numeric(ncaa.data$Pass.Int)
```

```r
Pass.Int <- summarise_at(group_by(ncaa.data, Player), vars(Pass.Int), funs(sum))[2]

# Pass.Rate
ncaa.data$Pass.Rate <- as.numeric(ncaa.data$Pass.Rate)
Pass.Rate <- summarise_at(group_by(ncaa.data, Player), vars(Pass.Rate), funs(mean))[2]

# Rush.Att
ncaa.data$Rush.Att <- as.numeric(ncaa.data$Rush.Att)
Rush.Att <- summarise_at(group_by(ncaa.data, Player), vars(Rush.Att), funs(sum))[2]

# Rush.Yds
ncaa.data$Rush.Yds <- as.numeric(ncaa.data$Rush.Yds)
Rush.Yds <- summarise_at(group_by(ncaa.data, Player), vars(Rush.Yds), funs(sum))[2]

# Rush.Avg
ncaa.data$Rush.Avg <- as.numeric(ncaa.data$Rush.Avg)
Rush.Avg <- summarise_at(group_by(ncaa.data, Player), vars(Rush.Avg), funs(mean))[2]

# Rush.TD
ncaa.data$Rush.TD <- as.numeric(ncaa.data$Rush.TD)
Rush.TD <- summarise_at(group_by(ncaa.data, Player), vars(Rush.TD), funs(sum))[2]


ncaa.data.2 <- ncaa.data[1:3]
ncaa.data.2 <- with(ncaa.data.2, ncaa.data.2[order(Player) , ])
ncaa.data.2 <- ncaa.data.2[!duplicated(ncaa.data.2[1]),]


ncaa.data.3 <- cbind(ncaa.data.2, G, Pass.Cmp, Pass.Att, Pass.Pct, Pass.Yds, Pass.Y.A, Pass.AY.A, Pass.
```

** Creating a Variable For Year Drafted **

```r
ncaa.data.3$Year.Drafted <- rep('N/A', 1131)
df <- ncaa.data.3
```

** Imputing the Year Drafted for QB's (if Drafted at all) **

```r
# Syntax
# df["rowName", "columnName"] <- value

# Example
df[df$Player == "Brady Quinn", "Year.Drafted"] <- 2007
df[df$Player == "Kyler Murray", "Year.Drafted"] <- 2019
df[df$Player == "Daniel Jones", "Year.Drafted"] <- 2019
df[df$Player == "Dwayne Haskins", "Year.Drafted"] <- 2019
df[df$Player == "Drew Lock", "Year.Drafted"] <- 2019
df[df$Player == "Will Grier", "Year.Drafted"] <- 2019
df[df$Player == "Ryan Finley", "Year.Drafted"] <- 2019
df[df$Player == "Jarrett Stidham", "Year.Drafted"] <- 2019
df[df$Player == "Easton Stick", "Year.Drafted"] <- 2019
df[df$Player == "Clayton Thorson", "Year.Drafted"] <- 2019
df[df$Player == "Gardner Minshew", "Year.Drafted"] <- 2019
df[df$Player == "Trace McSorley", "Year.Drafted"] <- 2019
df[df$Player == "Baker Mayfield", "Year.Drafted"] <- 2018
```

```r
df[df$Player == "Sam Darnold", "Year.Drafted"] <- 2018
df[df$Player == "Josh Allen", "Year.Drafted"] <- 2018
df[df$Player == "Josh Rosen", "Year.Drafted"] <- 2018
df[df$Player == "Lamar Jackson", "Year.Drafted"] <- 2018
df[df$Player == "Mason Rudolph", "Year.Drafted"] <- 2018
df[df$Player == "Kyle Lauletta", "Year.Drafted"] <- 2018
df[df$Player == "Mike White", "Year.Drafted"] <- 2018
df[df$Player == "Luke Falk", "Year.Drafted"] <- 2018
df[df$Player == "Tanner Lee", "Year.Drafted"] <- 2018
df[df$Player == "Danny Etling", "Year.Drafted"] <- 2018
df[df$Player == "Alex Mcgough", "Year.Drafted"] <- 2018
df[df$Player == "Logan Woodside", "Year.Drafted"] <- 2018
df[df$Player == "Mitchell Trubisky", "Year.Drafted"] <- 2017
df[df$Player == "Patrick Mahomes", "Year.Drafted"] <- 2017
df[df$Player == "Deshaun Watson", "Year.Drafted"] <- 2017
df[df$Player == "DeShone Kizer", "Year.Drafted"] <- 2017
df[df$Player == "Davis Webb", "Year.Drafted"] <- 2017
df[df$Player == "C.J. Beathard", "Year.Drafted"] <- 2017
df[df$Player == "Joshua Dobbs", "Year.Drafted"] <- 2017
df[df$Player == "Nathan Peterman", "Year.Drafted"] <- 2017
df[df$Player == "Brad Kaaya", "Year.Drafted"] <- 2017
df[df$Player == "Chad Kelly", "Year.Drafted"] <- 2017
df[df$Player == "Jared Goff", "Year.Drafted"] <- 2016
df[df$Player == "Carson Wentz", "Year.Drafted"] <- 2016
df[df$Player == "Paxton Lynch", "Year.Drafted"] <- 2016
df[df$Player == "Christian Hackenberg", "Year.Drafted"] <- 2016
df[df$Player == "Jacoby Brissett", "Year.Drafted"] <- 2016
df[df$Player == "Cody Kessler", "Year.Drafted"] <- 2016
df[df$Player == "Connor Cook", "Year.Drafted"] <- 2016
df[df$Player == "Dak Prescott", "Year.Drafted"] <- 2016
df[df$Player == "Cardale Jones", "Year.Drafted"] <- 2016
df[df$Player == "Kevin Hogan", "Year.Drafted"] <- 2016
df[df$Player == "Nate Sudfeld", "Year.Drafted"] <- 2016
df[df$Player == "Jake Rudock", "Year.Drafted"] <- 2016
df[df$Player == "Brandon Allen", "Year.Drafted"] <- 2016
df[df$Player == "Jeff Driskel", "Year.Drafted"] <- 2016
df[df$Player == "Brandon Doughty", "Year.Drafted"] <- 2016
df[df$Player == "Jameis Winston", "Year.Drafted"] <- 2015
df[df$Player == "Marcus Mariota", "Year.Drafted"] <- 2015
df[df$Player == "Garrett Grayson", "Year.Drafted"] <- 2015
df[df$Player == "Sean Mannion", "Year.Drafted"] <- 2015
df[df$Player == "Bryce Petty", "Year.Drafted"] <- 2015
df[df$Player == "Brett Hundley", "Year.Drafted"] <- 2015
df[df$Player == "Trevor Siemian", "Year.Drafted"] <- 2015
df[df$Player == "Blake Bortles", "Year.Drafted"] <- 2014
df[df$Player == "Johnny Manziel", "Year.Drafted"] <- 2014
df[df$Player == "Teddy Bridgewater", "Year.Drafted"] <- 2014
df[df$Player == "Derek Carr", "Year.Drafted"] <- 2014
df[df$Player == "Jimmy Garappolo", "Year.Drafted"] <- 2014
df[df$Player == "Logan Thomas", "Year.Drafted"] <- 2014
df[df$Player == "Tom Savage", "Year.Drafted"] <- 2014
df[df$Player == "Aaron Murray", "Year.Drafted"] <- 2014
df[df$Player == "AJ McCarron", "Year.Drafted"] <- 2014
```

```r
df[df$Player == "Zach Mettenberger", "Year.Drafted"] <- 2014
df[df$Player == "David Fales", "Year.Drafted"] <- 2014
df[df$Player == "Keith Wenning", "Year.Drafted"] <- 2014
df[df$Player == "Tajh Boyd", "Year.Drafted"] <- 2014
df[df$Player == "Garrett Gilbert", "Year.Drafted"] <- 2014
df[df$Player == "EJ Manuel", "Year.Drafted"] <- 2013
df[df$Player == "Geno Smith", "Year.Drafted"] <- 2013
df[df$Player == "Mike Glennon", "Year.Drafted"] <- 2013
df[df$Player == "Matt Barkley", "Year.Drafted"] <- 2013
df[df$Player == "Ryan Nassib", "Year.Drafted"] <- 2013
df[df$Player == "Tyler Wilson", "Year.Drafted"] <- 2013
df[df$Player == "Landry Jones", "Year.Drafted"] <- 2013
df[df$Player == "Brad Sorensen", "Year.Drafted"] <- 2013
df[df$Player == "Zac Dysert", "Year.Drafted"] <- 2013
df[df$Player == "B.J. Daniels", "Year.Drafted"] <- 2013
df[df$Player == "Sean Renfree", "Year.Drafted"] <- 2013
df[df$Player == "Andrew Luck", "Year.Drafted"] <- 2012
df[df$Player == "Robert Griffin III", "Year.Drafted"] <- 2012
df[df$Player == "Ryan Tannehill", "Year.Drafted"] <- 2012
df[df$Player == "Brandon Weeden", "Year.Drafted"] <- 2012
df[df$Player == "Brock Osweiler", "Year.Drafted"] <- 2012
df[df$Player == "Russell Wilson", "Year.Drafted"] <- 2012
df[df$Player == "Nick Foles", "Year.Drafted"] <- 2012
df[df$Player == "Kirk Cousins", "Year.Drafted"] <- 2012
df[df$Player == "Ryan Lindley", "Year.Drafted"] <- 2012
df[df$Player == "B.J. Coleman", "Year.Drafted"] <- 2012
df[df$Player == "Chandler Harnish", "Year.Drafted"] <- 2012
df[df$Player == "Cam Newton", "Year.Drafted"] <- 2011
df[df$Player == "Jake Locker", "Year.Drafted"] <- 2011
df[df$Player == "Blaine Gabbert", "Year.Drafted"] <- 2011
df[df$Player == "Christian Ponder", "Year.Drafted"] <- 2011
df[df$Player == "Andy Dalton", "Year.Drafted"] <- 2011
df[df$Player == "Colin Kaepernick", "Year.Drafted"] <- 2011
df[df$Player == "Ryan Mallett", "Year.Drafted"] <- 2011
df[df$Player == "Ricky Stanzi", "Year.Drafted"] <- 2011
df[df$Player == "T.J. Yates", "Year.Drafted"] <- 2011
df[df$Player == "Nathan Enderle", "Year.Drafted"] <- 2011
df[df$Player == "Tyrod Taylor", "Year.Drafted"] <- 2011
df[df$Player == "Greg McElroy", "Year.Drafted"] <- 2011
df[df$Player == "Sam Bradford", "Year.Drafted"] <- 2010
df[df$Player == "Tim Tebow", "Year.Drafted"] <- 2010
df[df$Player == "Jimmy Clausen", "Year.Drafted"] <- 2010
df[df$Player == "Colt McCoy", "Year.Drafted"] <- 2010
df[df$Player == "Michael Kafka", "Year.Drafted"] <- 2010
df[df$Player == "John Skelton", "Year.Drafted"] <- 2010
df[df$Player == "Jonathan Crompton", "Year.Drafted"] <- 2010
df[df$Player == "Rusty Smith", "Year.Drafted"] <- 2010
df[df$Player == "Dan Lefevour", "Year.Drafted"] <- 2010
df[df$Player == "Joe Webb", "Year.Drafted"] <- 2010
df[df$Player == "Tony Pike", "Year.Drafted"] <- 2010
df[df$Player == "Levi Brown", "Year.Drafted"] <- 2010
df[df$Player == "Sean Canfield", "Year.Drafted"] <- 2010
df[df$Player == "Zac Robinson", "Year.Drafted"] <- 2010
```

```r
df[df$Player == "Matthew Stafford", "Year.Drafted"] <- 2009
df[df$Player == "Mark Sanchez", "Year.Drafted"] <- 2009
df[df$Player == "Josh Freeman", "Year.Drafted"] <- 2009
df[df$Player == "Pat White", "Year.Drafted"] <- 2009
df[df$Player == "Stephen McGee", "Year.Drafted"] <- 2009
df[df$Player == "Rhett Bomar", "Year.Drafted"] <- 2009
df[df$Player == "Nate Davis", "Year.Drafted"] <- 2009
df[df$Player == "Tom Brandstater", "Year.Drafted"] <- 2009
df[df$Player == "Mike Teel", "Year.Drafted"] <- 2009
df[df$Player == "Keith Null", "Year.Drafted"] <- 2009
df[df$Player == "Curtis Painter", "Year.Drafted"] <- 2009
df[df$Player == "Matt Ryan", "Year.Drafted"] <- 2008
df[df$Player == "Joe Flacco", "Year.Drafted"] <- 2008
df[df$Player == "Brian Brohm", "Year.Drafted"] <- 2008
df[df$Player == "Chad Henne", "Year.Drafted"] <- 2008
df[df$Player == "Kevin O'Connell", "Year.Drafted"] <- 2008
df[df$Player == "John David Booty", "Year.Drafted"] <- 2008
df[df$Player == "Dennis Dixon", "Year.Drafted"] <- 2008
df[df$Player == "Josh Johnson", "Year.Drafted"] <- 2008
df[df$Player == "Erik Ainge", "Year.Drafted"] <- 2008
df[df$Player == "Colt Brennan", "Year.Drafted"] <- 2008
df[df$Player == "Andre Woodson", "Year.Drafted"] <- 2008
df[df$Player == "Matt Flynn", "Year.Drafted"] <- 2008
df[df$Player == "Alex Brink", "Year.Drafted"] <- 2008
df[df$Player == "JaMarcus Russel", "Year.Drafted"] <- 2007
df[df$Player == "Brady Quinn", "Year.Drafted"] <- 2007
df[df$Player == "Kevin Kolb", "Year.Drafted"] <- 2007
df[df$Player == "John Beck", "Year.Drafted"] <- 2007
df[df$Player == "Drew Stanton", "Year.Drafted"] <- 2007
df[df$Player == "Trent Edwards", "Year.Drafted"] <- 2007
df[df$Player == "Isaiah Stanback", "Year.Drafted"] <- 2007
df[df$Player == "Jeff Rowe", "Year.Drafted"] <- 2007
df[df$Player == "Troy Smith", "Year.Drafted"] <- 2007
df[df$Player == "Jordan Palmer", "Year.Drafted"] <- 2007
df[df$Player == "Tyler Thigpen", "Year.Drafted"] <- 2007
df[df$Player == "Vince Young", "Year.Drafted"] <- 2006
df[df$Player == "Matt Leinart", "Year.Drafted"] <- 2006
df[df$Player == "Jay Cutler", "Year.Drafted"] <- 2006
df[df$Player == "Kellen Clemens", "Year.Drafted"] <- 2006
df[df$Player == "Tarvaris Jackson", "Year.Drafted"] <- 2006
df[df$Player == "Charlie Whitehurst", "Year.Drafted"] <- 2006
df[df$Player == "Brodie Croyle", "Year.Drafted"] <- 2006
df[df$Player == "Brad Smith", "Year.Drafted"] <- 2006
df[df$Player == "Ingle Martin", "Year.Drafted"] <- 2006
df[df$Player == "Omar Jacobs", "Year.Drafted"] <- 2006
df[df$Player == "Reggie McNeal", "Year.Drafted"] <- 2006
df[df$Player == "Bruce Gradkowski", "Year.Drafted"] <- 2006
df[df$Player == "D.J. Shockley", "Year.Drafted"] <- 2006
df[df$Player == "Alex Smith", "Year.Drafted"] <- 2005
df[df$Player == "Aaron Rodgers", "Year.Drafted"] <- 2005
df[df$Player == "Jason Campbell", "Year.Drafted"] <- 2005
df[df$Player == "Charlie Frye", "Year.Drafted"] <- 2005
df[df$Player == "Andrew Walter", "Year.Drafted"] <- 2005
```

```r
df[df$Player == "David Greene", "Year.Drafted"] <- 2005
df[df$Player == "Kyle Orton", "Year.Drafted"] <- 2005
df[df$Player == "Stefan Lefors", "Year.Drafted"] <- 2005
df[df$Player == "Dan Orlovsky", "Year.Drafted"] <- 2005
df[df$Player == "Adrian McPherson", "Year.Drafted"] <- 2005
df[df$Player == "Derek Anderson", "Year.Drafted"] <- 2005
df[df$Player == "James Kilian", "Year.Drafted"] <- 2005
df[df$Player == "Matt Cassel", "Year.Drafted"] <- 2005
df[df$Player == "Ryan Fitzpatrick", "Year.Drafted"] <- 2005
df[df$Player == "Eli Manning", "Year.Drafted"] <- 2004
df[df$Player == "Philip Rivers", "Year.Drafted"] <- 2004
df[df$Player == "Ben Roethlisberger", "Year.Drafted"] <- 2004
df[df$Player == "J.P. Losman", "Year.Drafted"] <- 2004
df[df$Player == "Matt Schaub", "Year.Drafted"] <- 2004
df[df$Player == "Luke McCown", "Year.Drafted"] <- 2004
df[df$Player == "Craig Krenzel", "Year.Drafted"] <- 2004
df[df$Player == "Andy Hall", "Year.Drafted"] <- 2004
df[df$Player == "Josh Harris", "Year.Drafted"] <- 2004
df[df$Player == "Jim Sorgi", "Year.Drafted"] <- 2004
df[df$Player == "Jeff Smoker", "Year.Drafted"] <- 2004
df[df$Player == "John Navarre", "Year.Drafted"] <- 2004
df[df$Player == "Cody Pickett", "Year.Drafted"] <- 2004
df[df$Player == "Casey Bramlet", "Year.Drafted"] <- 2004
df[df$Player == "Matt Mauck", "Year.Drafted"] <- 2004
df[df$Player == "B.J. Symons", "Year.Drafted"] <- 2004
df[df$Player == "Bradlee Van Pelt", "Year.Drafted"] <- 2004
df[df$Player == "Carson Palmer", "Year.Drafted"] <- 2003
df[df$Player == "Byron Leftwich", "Year.Drafted"] <- 2003
df[df$Player == "Kyle Boller", "Year.Drafted"] <- 2003
df[df$Player == "Rex Grossman", "Year.Drafted"] <- 2003
df[df$Player == "Dave Ragone", "Year.Drafted"] <- 2003
df[df$Player == "Chris Simms", "Year.Drafted"] <- 2003
df[df$Player == "Seneca Wallace", "Year.Drafted"] <- 2003
df[df$Player == "Brian St. Pierre", "Year.Drafted"] <- 2003
df[df$Player == "Drew Henson", "Year.Drafted"] <- 2003
df[df$Player == "Brooks Bollinger", "Year.Drafted"] <- 2003
df[df$Player == "Kliff Kingsbury", "Year.Drafted"] <- 2003
df[df$Player == "Gibran Hamdan", "Year.Drafted"] <- 2003
df[df$Player == "Ken Dorsey", "Year.Drafted"] <- 2003
df[df$Player == "David Carr", "Year.Drafted"] <- 2002
df[df$Player == "Joey Harrington", "Year.Drafted"] <- 2002
df[df$Player == "Patrick Ramsey", "Year.Drafted"] <- 2002
df[df$Player == "Josh McCown", "Year.Drafted"] <- 2002
df[df$Player == "David Garrard", "Year.Drafted"] <- 2002
df[df$Player == "Rohan Davey", "Year.Drafted"] <- 2002
df[df$Player == "Randy Fasani", "Year.Drafted"] <- 2002
df[df$Player == "Kurt Kittner", "Year.Drafted"] <- 2002
df[df$Player == "Brandon Doman", "Year.Drafted"] <- 2002
df[df$Player == "Craig Nall", "Year.Drafted"] <- 2002
df[df$Player == "J.T. O'Sullivan", "Year.Drafted"] <- 2002
df[df$Player == "Steve Bellisari", "Year.Drafted"] <- 2002
df[df$Player == "Seth Burford", "Year.Drafted"] <- 2002
df[df$Player == "Jeff Kelly", "Year.Drafted"] <- 2002
```

```r
df[df$Player == "Wes Pate", "Year.Drafted"] <- 2002
df[df$Player == "Michael Vick", "Year.Drafted"] <- 2001
df[df$Player == "Drew Brees", "Year.Drafted"] <- 2001
df[df$Player == "Quincy Carter", "Year.Drafted"] <- 2001
df[df$Player == "Marques Tuiasosopo", "Year.Drafted"] <- 2001
df[df$Player == "Chris Weinke", "Year.Drafted"] <- 2001
df[df$Player == "Sage Rosenfels", "Year.Drafted"] <- 2001
df[df$Player == "Jesse Palmer", "Year.Drafted"] <- 2001
df[df$Player == "Mike McMahon", "Year.Drafted"] <- 2001
df[df$Player == "A.J. Feeley", "Year.Drafted"] <- 2001
df[df$Player == "Josh Booty", "Year.Drafted"] <- 2001
df[df$Player == "Josh Heupel", "Year.Drafted"] <- 2001
df[df$Player == "Chad Pennington", "Year.Drafted"] <- 2000
df[df$Player == "Giovanni Carmazzi", "Year.Drafted"] <- 2000
df[df$Player == "Chris Redman", "Year.Drafted"] <- 2000
df[df$Player == "Tee Martin", "Year.Drafted"] <- 2000
df[df$Player == "Marc Bulger", "Year.Drafted"] <- 2000
df[df$Player == "Spergon Wynn", "Year.Drafted"] <- 2000
df[df$Player == "Tom Brady", "Year.Drafted"] <- 2000
df[df$Player == "Todd Husak", "Year.Drafted"] <- 2000
df[df$Player == "JaJuan Seider", "Year.Drafted"] <- 2000
df[df$Player == "Tim Rattay", "Year.Drafted"] <- 2000
df[df$Player == "Jarious Jackson", "Year.Drafted"] <- 2000
df[df$Player == "Joe Hamilton", "Year.Drafted"] <- 2000
df[df$Player == "Tim Couch", "Year.Drafted"] <- 1999
df[df$Player == "Donovan McNabb", "Year.Drafted"] <- 1999
df[df$Player == "Akili Smith", "Year.Drafted"] <- 1999
df[df$Player == "Daunte Culpepper", "Year.Drafted"] <- 1999
df[df$Player == "Cade McNown", "Year.Drafted"] <- 1999
df[df$Player == "Shaun King", "Year.Drafted"] <- 1999
df[df$Player == "Brock Huard", "Year.Drafted"] <- 1999
df[df$Player == "Joe Germaine", "Year.Drafted"] <- 1999
df[df$Player == "Aaron Brooks", "Year.Drafted"] <- 1999
df[df$Player == "Kevin Daft", "Year.Drafted"] <- 1999
df[df$Player == "Michael Bishop", "Year.Drafted"] <- 1999
df[df$Player == "Chris Griesen", "Year.Drafted"] <- 1999
df[df$Player == "Scott Covington", "Year.Drafted"] <- 1999
df[df$Player == "Case Keenum", "Year.Drafted"] <- "UDFA"
df[df$Player == "Kellen Moore", "Year.Drafted"] <- "UDFA"
df[df$Player == "Graham Harrell", "Year.Drafted"] <- "UDFA"
df[df$Player == "J.T. Barrett", "Year.Drafted"] <- "UDFA"
df[df$Player == "Chase Daniel", "Year.Drafted"] <- "UDFA"
df[df$Player == "Brandon Doughty", "Year.Drafted"] <- 2016


df.drafted <- df[which(df$Year.Drafted != "N/A"), "Player"]
df.drafted = data.frame(df.drafted)


df["Draft.Round"] <- "N/A"
df["Years.on.Payroll"] <- "N/A"
df["Games.Started"] <- "N/A"
df["Under.Contract"] <- "No"
```

```r
# J.T. Barrett
# https://www.pro-football-reference.com/players/B/BarrJ.00.htm
df[df$Player == "J.T. Barrett", "Draft.Round"] <- "UDFA"
df[df$Player == "J.T. Barrett", "Years.on.Payroll"] <- 0
df[df$Player == "J.T. Barrett", "Games.Started"] <- 0


# Graham Harrell
# https://www.pro-football-reference.com/players/H/HarrGr00.htm
df[df$Player == "Graham Harrell", "Draft.Round"] <- "UDFA"
df[df$Player == "Graham Harrell", "Years.on.Payroll"] <- 1
df[df$Player == "Graham Harrell", "Games.Started"] <- 0


# Chase Daniel
# https://www.pro-football-reference.com/players/D/DaniCh00.htm
df[df$Player == "Chase Daniel", "Draft.Round"] <- "UDFA"
df[df$Player == "Chase Daniel", "Years.on.Payroll"] <- 12
df[df$Player == "Chase Daniel", "Games.Started"] <- 5


# Kellen Moore
# https://www.pro-football-reference.com/players/M/MoorKe02.htm
df[df$Player == "Kellen Moore", "Draft.Round"] <- "UDFA"
df[df$Player == "Kellen Moore", "Years.on.Payroll"] <- 1
df[df$Player == "Kellen Moore", "Games.Started"] <- 2


# Brandon Doughty
# https://en.wikipedia.org/wiki/Brandon_Doughty#Professional_career
df[df$Player == "Brandon Doughty", "Draft.Round"] <- 7
df[df$Player == "Brandon Doughty", "Years.on.Payroll"] <- 0
df[df$Player == "Brandon Doughty", "Games.Started"] <- 0


# A.J. Feeley
# https://www.pro-football-reference.com/players/F/FeelA.00.htm
df[df$Player == "A.J. Feeley", "Draft.Round"] <- 5
df[df$Player == "A.J. Feeley", "Years.on.Payroll"] <- 6
df[df$Player == "A.J. Feeley", "Games.Started"] <- 18


# Aaron Murray
# https://www.pro-football-reference.com/players/M/MurrAa00.htm
df[df$Player == "Aaron Murray", "Draft.Round"] <- 5
df[df$Player == "Aaron Murray", "Years.on.Payroll"] <- 0
df[df$Player == "Aaron Murray", "Games.Started"] <- 0


# Aaron Rodgers
# https://www.pro-football-reference.com/players/R/RodgAa00.htm
df[df$Player == "Aaron Rodgers", "Draft.Round"] <- 1
df[df$Player == "Aaron Rodgers", "Years.on.Payroll"] <- 17
df[df$Player == "Aaron Rodgers", "Games.Started"] <- 199
df[df$Player == "Aaron Rodgers", "Under.Contract"] <- "Yes"


# Alex Brink
# https://www.pro-football-reference.com/players/B/BrinAl00.htm
```

```r
df[df$Player == "Alex Brink", "Draft.Round"] <- 7
df[df$Player == "Alex Brink", "Years.on.Payroll"] <- 0
df[df$Player == "Alex Brink", "Games.Started"] <- 0


# Alex Smith
# https://www.pro-football-reference.com/players/S/SmitAl03.htm
df[df$Player == "Alex Smith", "Draft.Round"] <- 1
df[df$Player == "Alex Smith", "Years.on.Payroll"] <- 14
df[df$Player == "Alex Smith", "Games.Started"] <- 167


# Andre Woodson
# https://www.pro-football-reference.com/players/W/WoodAn00.htm
df[df$Player == "Andre Woodson", "Draft.Round"] <- 6
df[df$Player == "Andre Woodson", "Years.on.Payroll"] <- 0
df[df$Player == "Andre Woodson", "Games.Started"] <- 0


# Andrew Luck
# https://www.pro-football-reference.com/players/L/LuckAn00.htm
df[df$Player == "Andrew Luck", "Draft.Round"] <- 1
df[df$Player == "Andrew Luck", "Years.on.Payroll"] <- 6
df[df$Player == "Andrew Luck", "Games.Started"] <- 86


# Andrew Walter
# https://www.pro-football-reference.com/players/W/WaltAn00.htm
df[df$Player == "Andrew Walter", "Draft.Round"] <- 3
df[df$Player == "Andrew Walter", "Years.on.Payroll"] <- 3
df[df$Player == "Andrew Walter", "Games.Started"] <- 9


# Andy Dalton
# https://www.pro-football-reference.com/players/D/DaltAn00.htm
df[df$Player == "Andy Dalton", "Draft.Round"] <- 2
df[df$Player == "Andy Dalton", "Years.on.Payroll"] <- 11
df[df$Player == "Andy Dalton", "Games.Started"] <- 144
df[df$Player == "Andy Dalton", "Under.Contract"] <- "Yes"


# B.J. Daniels
# https://www.pro-football-reference.com/players/D/DaniB.00.htm
df[df$Player == "B.J. Daniels", "Draft.Round"] <- 7
df[df$Player == "B.J. Daniels", "Years.on.Payroll"] <- 1
df[df$Player == "B.J. Daniels", "Games.Started"] <- 0


# B.J. Symons
# https://en.wikipedia.org/wiki/B._J._Symons
df[df$Player == "B.J. Symons", "Draft.Round"] <- 7
df[df$Player == "B.J. Symons", "Years.on.Payroll"] <- 0
df[df$Player == "B.J. Symons", "Games.Started"] <- 0


# Baker Mayfield
# https://www.pro-football-reference.com/players/M/MayfBa00.htm
df[df$Player == "Baker Mayfield", "Draft.Round"] <- 1
df[df$Player == "Baker Mayfield", "Years.on.Payroll"] <- 4
```

```r
df[df$Player == "Baker Mayfield", "Games.Started"] <- 54
df[df$Player == "Baker Mayfield", "Under.Contract"] <- "Yes"


# Ben Roethlisberger
# https://www.pro-football-reference.com/players/R/RoetBe00.htm
df[df$Player == "Ben Roethlisberger", "Draft.Round"] <- 1
df[df$Player == "Ben Roethlisberger", "Years.on.Payroll"] <- 18
df[df$Player == "Ben Roethlisberger", "Games.Started"] <- 239
df[df$Player == "Ben Roethlisberger", "Under.Contract"] <- "Yes"


# Blaine Gabbert
# https://www.pro-football-reference.com/players/G/GabbBl00.htm
df[df$Player == "Blaine Gabbert", "Draft.Round"] <- 1
df[df$Player == "Blaine Gabbert", "Years.on.Payroll"] <- 10
df[df$Player == "Blaine Gabbert", "Games.Started"] <- 48
df[df$Player == "Blaine Gabbert", "Under.Contract"] <- "Yes"


# Blake Bortles
# https://www.pro-football-reference.com/players/B/BortBl00.htm
df[df$Player == "Blake Bortles", "Draft.Round"] <- 1
df[df$Player == "Blake Bortles", "Years.on.Payroll"] <- 6
df[df$Player == "Blake Bortles", "Games.Started"] <- 73


# Brad Kaaya
# https://www.pro-football-reference.com/players/K/KaayBr00.htm
df[df$Player == "Brad Kaaya", "Draft.Round"] <- 6
df[df$Player == "Brad Kaaya", "Years.on.Payroll"] <- 0
df[df$Player == "Brad Kaaya", "Games.Started"] <- 0


# Brad Smith
# https://www.pro-football-reference.com/players/S/SmitBr01.htm
df[df$Player == "Brad Smith", "Draft.Round"] <- 4
df[df$Player == "Brad Smith", "Years.on.Payroll"] <- 9
df[df$Player == "Brad Smith", "Games.Started"] <- 0


# Bradlee Van Pelt
# https://www.pro-football-reference.com/players/V/VanPBr00.htm
df[df$Player == "Bradlee Van Pelt", "Draft.Round"] <- 7
df[df$Player == "Bradlee Van Pelt", "Years.on.Payroll"] <- 1
df[df$Player == "Bradlee Van Pelt", "Games.Started"] <- 0


# Brady Quinn
# https://www.pro-football-reference.com/players/Q/QuinBr00.htm
df[df$Player == "Brady Quinn", "Draft.Round"] <- 1
df[df$Player == "Brady Quinn", "Years.on.Payroll"] <- 4
df[df$Player == "Brady Quinn", "Games.Started"] <- 20


# Brandon Allen
# https://www.pro-football-reference.com/players/A/AlleBr00.htm
df[df$Player == "Brandon Allen", "Draft.Round"] <- 6
df[df$Player == "Brandon Allen", "Years.on.Payroll"] <- 3
df[df$Player == "Brandon Allen", "Games.Started"] <- 8
```

```r
# Brandon Doman
# https://en.wikipedia.org/wiki/Brandon_Doman
df[df$Player == "Brandon Doman", "Draft.Round"] <- 5
df[df$Player == "Brandon Doman", "Years.on.Payroll"] <- 0
df[df$Player == "Brandon Doman", "Games.Started"] <- 0


# Brandon Doughty
# https://www.pro-football-reference.com/players/D/DougBr00.htm
df[df$Player == "Brandon Doughty", "Draft.Round"] <- 7
df[df$Player == "Brandon Doughty", "Years.on.Payroll"] <- 0
df[df$Player == "Brandon Doughty", "Games.Started"] <- 0


# Brandon Weeden
# https://www.pro-football-reference.com/players/W/WeedBr00.htm
df[df$Player == "Brandon Weeden", "Draft.Round"] <- 1
df[df$Player == "Brandon Weeden", "Years.on.Payroll"] <- 5
df[df$Player == "Brandon Weeden", "Games.Started"] <- 25


# Brett Hundley
# https://www.pro-football-reference.com/players/H/HundBr00.htm
df[df$Player == "Brett Hundley", "Draft.Round"] <- 5
df[df$Player == "Brett Hundley", "Years.on.Payroll"] <- 3
df[df$Player == "Brett Hundley", "Games.Started"] <- 9


# Brian Brohm
# https://www.pro-football-reference.com/players/B/BrohBr00.htm
df[df$Player == "Brian Brohm", "Draft.Round"] <- 2
df[df$Player == "Brian Brohm", "Years.on.Payroll"] <- 2
df[df$Player == "Brian Brohm", "Games.Started"] <- 2


# Brian St. Pierre
# https://www.pro-football-reference.com/players/S/St.PBr20.htm
df[df$Player == "Brian St. Pierre", "Draft.Round"] <- 5
df[df$Player == "Brian St. Pierre", "Years.on.Payroll"] <- 3
df[df$Player == "Brian St. Pierre", "Games.Started"] <- 1


# Brock Osweiler
# https://www.pro-football-reference.com/players/O/OsweBr00.htm
df[df$Player == "Brock Osweiler", "Draft.Round"] <- 2
df[df$Player == "Brock Osweiler", "Years.on.Payroll"] <- 7
df[df$Player == "Brock Osweiler", "Games.Started"] <- 30


# Brodie Croyle
# https://www.pro-football-reference.com/players/C/CroyBr00.htm
df[df$Player == "Brodie Croyle", "Draft.Round"] <- 3
df[df$Player == "Brodie Croyle", "Years.on.Payroll"] <- 5
df[df$Player == "Brodie Croyle", "Games.Started"] <- 10


# Brooks Bollinger
# https://www.pro-football-reference.com/players/B/BollBr00.htm
df[df$Player == "Brooks Bollinger", "Draft.Round"] <- 6
df[df$Player == "Brooks Bollinger", "Years.on.Payroll"] <- 5
df[df$Player == "Brooks Bollinger", "Games.Started"] <- 10
```

```r
# Bruce Gradkowski
# https://www.pro-football-reference.com/players/G/GradBr00.htm
df[df$Player == "Bruce Gradkowski", "Draft.Round"] <- 6
df[df$Player == "Bruce Gradkowski", "Years.on.Payroll"] <- 8
df[df$Player == "Bruce Gradkowski", "Games.Started"] <- 20


# Bryce Petty
# https://www.pro-football-reference.com/players/P/PettBr01.htm
df[df$Player == "Bryce Petty", "Draft.Round"] <- 4
df[df$Player == "Bryce Petty", "Years.on.Payroll"] <- 2
df[df$Player == "Bryce Petty", "Games.Started"] <- 7


# Byron Leftwich
# https://www.pro-football-reference.com/players/L/LeftBy00.htm
df[df$Player == "Byron Leftwich", "Draft.Round"] <- 1
df[df$Player == "Byron Leftwich", "Years.on.Payroll"] <- 9
df[df$Player == "Byron Leftwich", "Games.Started"] <- 50


# C.J. Beathard
# https://www.pro-football-reference.com/players/B/BeatC.00.htm
df[df$Player == "C.J. Beathard", "Draft.Round"] <- 3
df[df$Player == "C.J. Beathard", "Years.on.Payroll"] <- 4
df[df$Player == "C.J. Beathard", "Games.Started"] <- 12
df[df$Player == "C.J. Beathard", "Under.Contract"] <- "Yes"


# Cam Newton
# https://www.pro-football-reference.com/players/N/NewtCa00.htm
df[df$Player == "Cam Newton", "Draft.Round"] <- 1
df[df$Player == "Cam Newton", "Years.on.Payroll"] <- 11
df[df$Player == "Cam Newton", "Games.Started"] <- 139
df[df$Player == "Cam Newton", "Under.Contract"] <- "Yes"


# Carson Palmer
# https://www.pro-football-reference.com/players/P/PalmCa00.htm
df[df$Player == "Carson Palmer", "Draft.Round"] <- 1
df[df$Player == "Carson Palmer", "Years.on.Payroll"] <- 14
df[df$Player == "Carson Palmer", "Games.Started"] <- 181


# Casey Bramlet
# https://en.wikipedia.org/wiki/Casey_Bramlet
df[df$Player == "Casey Bramlet", "Draft.Round"] <- 7
df[df$Player == "Casey Bramlet", "Years.on.Payroll"] <- 0
df[df$Player == "Casey Bramlet", "Games.Started"] <- 0


# Chad Henne
# https://www.pro-football-reference.com/players/H/HennCh01.htm
df[df$Player == "Chad Henne", "Draft.Round"] <- 2
df[df$Player == "Chad Henne", "Years.on.Payroll"] <- 12
df[df$Player == "Chad Henne", "Games.Started"] <- 54
df[df$Player == "Chad Henne", "Under.Contract"] <- "Yes"
```

```r
# Chad Kelly
# https://en.wikipedia.org/wiki/Chad_Kelly
df[df$Player == "Chad Kelly", "Draft.Round"] <- 7
df[df$Player == "Chad Kelly", "Years.on.Payroll"] <- 0
df[df$Player == "Chad Kelly", "Games.Started"] <- 0


# Chad Pennington
# https://www.pro-football-reference.com/players/P/PennCh01.htm
df[df$Player == "Chad Pennington", "Draft.Round"] <- 1
df[df$Player == "Chad Pennington", "Years.on.Payroll"] <- 11
df[df$Player == "Chad Pennington", "Games.Started"] <- 81


# Chandler Harnish
# https://www.pro-football-reference.com/players/H/HarnCh00.htm
df[df$Player == "Chandler Harnish", "Draft.Round"] <- 7
df[df$Player == "Chandler Harnish", "Years.on.Payroll"] <- 0
df[df$Player == "Chandler Harnish", "Games.Started"] <- 0


# Charlie Frye
# https://www.pro-football-reference.com/players/F/FryeCh00.htm
df[df$Player == "Charlie Frye", "Draft.Round"] <- 3
df[df$Player == "Charlie Frye", "Years.on.Payroll"] <- 5
df[df$Player == "Charlie Frye", "Games.Started"] <- 23


# Charlie Whitehurst
# https://www.pro-football-reference.com/players/W/WhitCh02.htm
df[df$Player == "Charlie Whitehurst", "Draft.Round"] <- 3
df[df$Player == "Charlie Whitehurst", "Years.on.Payroll"] <- 7
df[df$Player == "Charlie Whitehurst", "Games.Started"] <- 9


# Chris Redman
# https://www.pro-football-reference.com/players/R/RedmCh00.htm
df[df$Player == "Chris Redman", "Draft.Round"] <- 3
df[df$Player == "Chris Redman", "Years.on.Payroll"] <- 8
df[df$Player == "Chris Redman", "Games.Started"] <- 12


# Chris Simms
# https://www.pro-football-reference.com/players/S/SimmCh00.htm
df[df$Player == "Chris Simms", "Draft.Round"] <- 3
df[df$Player == "Chris Simms", "Years.on.Payroll"] <- 5
df[df$Player == "Chris Simms", "Games.Started"] <- 16


# Chris Weinke
# https://www.pro-football-reference.com/players/W/WeinCh00.htm
df[df$Player == "Chris Weinke", "Draft.Round"] <- 4
df[df$Player == "Chris Weinke", "Years.on.Payroll"] <- 5
df[df$Player == "Chris Weinke", "Games.Started"] <- 20


# Christian Hackenberg
# https://www.pro-football-reference.com/players/H/HackCh01.htm
df[df$Player == "Christian Hackenberg", "Draft.Round"] <- 2
df[df$Player == "Christian Hackenberg", "Years.on.Payroll"] <- 0
df[df$Player == "Christian Hackenberg", "Games.Started"] <- 0
```

```r
# Christian Ponder
# https://www.pro-football-reference.com/players/P/PondCh00.htm
df[df$Player == "Christian Ponder", "Draft.Round"] <- 1
df[df$Player == "Christian Ponder", "Years.on.Payroll"] <- 4
df[df$Player == "Christian Ponder", "Games.Started"] <- 36


# Clayton Thorson
# https://www.pro-football-reference.com/players/T/ThorCl00.htm
df[df$Player == "Clayton Thorson", "Draft.Round"] <- 5
df[df$Player == "Clayton Thorson", "Years.on.Payroll"] <- 0
df[df$Player == "Clayton Thorson", "Games.Started"] <- 0


# Cody Kessler
# https://www.pro-football-reference.com/players/K/KessCo00.htm
df[df$Player == "Cody Kessler", "Draft.Round"] <- 3
df[df$Player == "Cody Kessler", "Years.on.Payroll"] <- 3
df[df$Player == "Cody Kessler", "Games.Started"] <- 12


# Cody Pickett
# https://www.pro-football-reference.com/players/P/PickCo00.htm
df[df$Player == "Cody Pickett", "Draft.Round"] <- 7
df[df$Player == "Cody Pickett", "Years.on.Payroll"] <- 2
df[df$Player == "Cody Pickett", "Games.Started"] <- 2


# Colin Kaepernick
# https://www.pro-football-reference.com/players/K/KaepCo00.htm
df[df$Player == "Colin Kaepernick", "Draft.Round"] <- 2
df[df$Player == "Colin Kaepernick", "Years.on.Payroll"] <- 6
df[df$Player == "Colin Kaepernick", "Games.Started"] <- 58


# Colt Brennan
# https://www.pro-football-reference.com/players/B/BrenCo00.htm
df[df$Player == "Colt Brennan", "Draft.Round"] <- 6
df[df$Player == "Colt Brennan", "Years.on.Payroll"] <- 0
df[df$Player == "Colt Brennan", "Games.Started"] <- 0


# Colt McCoy
# https://www.pro-football-reference.com/players/M/McCoCo00.htm
df[df$Player == "Colt McCoy", "Draft.Round"] <- 3
df[df$Player == "Colt McCoy", "Years.on.Payroll"] <- 11
df[df$Player == "Colt McCoy", "Games.Started"] <- 32
df[df$Player == "Colt McCoy", "Under.Contract"] <- "Yes"


# Connor Cook
# https://www.pro-football-reference.com/players/C/CookCo00.htm
df[df$Player == "Connor Cook", "Draft.Round"] <- 4
df[df$Player == "Connor Cook", "Years.on.Payroll"] <- 1
df[df$Player == "Connor Cook", "Games.Started"] <- 0


# Craig Krenzel
# https://www.pro-football-reference.com/players/K/KrenCr00.htm
```

```r
df[df$Player == "Craig Krenzel", "Draft.Round"] <- 5
df[df$Player == "Craig Krenzel", "Years.on.Payroll"] <- 1
df[df$Player == "Craig Krenzel", "Games.Started"] <- 5


# Curtis Painter
# https://www.pro-football-reference.com/players/P/PainCu00.htm
df[df$Player == "Curtis Painter", "Draft.Round"] <- 6
df[df$Player == "Curtis Painter", "Years.on.Payroll"] <- 3
df[df$Player == "Curtis Painter", "Games.Started"] <- 8


# D.J. Shockley
# https://en.wikipedia.org/wiki/D._J._Shockley
df[df$Player == "D.J. Shockley", "Draft.Round"] <- 7
df[df$Player == "D.J. Shockley", "Years.on.Payroll"] <- 4
df[df$Player == "D.J. Shockley", "Games.Started"] <- 0


# Dak Prescott
# https://www.pro-football-reference.com/players/P/PresDa01.htm
df[df$Player == "Dak Prescott", "Draft.Round"] <- 4
df[df$Player == "Dak Prescott", "Years.on.Payroll"] <- 6
df[df$Player == "Dak Prescott", "Games.Started"] <- 77
df[df$Player == "Dak Prescott", "Under.Contract"] <- "Yes"


# Dan Orlovsky
# https://www.pro-football-reference.com/players/O/OrloDa00.htm
df[df$Player == "Dan Orlovsky", "Draft.Round"] <- 5
df[df$Player == "Dan Orlovsky", "Years.on.Payroll"] <- 7
df[df$Player == "Dan Orlovsky", "Games.Started"] <- 12


# Daniel Jones
# https://www.pro-football-reference.com/players/J/JoneDa05.htm
df[df$Player == "Daniel Jones", "Draft.Round"] <- 1
df[df$Player == "Daniel Jones", "Years.on.Payroll"] <- 3
df[df$Player == "Daniel Jones", "Games.Started"] <- 35
df[df$Player == "Daniel Jones", "Under.Contract"] <- "Yes"


# Danny Etling
# https://www.pro-football-reference.com/players/E/EtliDa00.htm
df[df$Player == "Danny Etling", "Draft.Round"] <- 7
df[df$Player == "Danny Etling", "Years.on.Payroll"] <- 0
df[df$Player == "Danny Etling", "Games.Started"] <- 0


# Dave Ragone
# https://www.pro-football-reference.com/players/R/RagoDa00.htm
df[df$Player == "Dave Ragone", "Draft.Round"] <- 3
df[df$Player == "Dave Ragone", "Years.on.Payroll"] <- 1
df[df$Player == "Dave Ragone", "Games.Started"] <- 2


# David Carr
# https://www.pro-football-reference.com/players/C/CarrDa00.htm
df[df$Player == "David Carr", "Draft.Round"] <- 1
```

```r
df[df$Player == "David Carr", "Years.on.Payroll"] <- 10
df[df$Player == "David Carr", "Games.Started"] <- 79


# David Fales
# https://www.pro-football-reference.com/players/F/FaleDa00.htm
df[df$Player == "David Fales", "Draft.Round"] <- 6
df[df$Player == "David Fales", "Years.on.Payroll"] <- 3
df[df$Player == "David Fales", "Games.Started"] <- 0


# David Garrard
# https://www.pro-football-reference.com/players/G/GarrDa00.htm
df[df$Player == "David Garrard", "Draft.Round"] <- 4
df[df$Player == "David Garrard", "Years.on.Payroll"] <- 9
df[df$Player == "David Garrard", "Games.Started"] <- 76


# Davis Webb
# https://www.pro-football-reference.com/players/W/WebbDa00.htm
df[df$Player == "Davis Webb", "Draft.Round"] <- 3
df[df$Player == "Davis Webb", "Years.on.Payroll"] <- 1
df[df$Player == "Davis Webb", "Games.Started"] <- 0
df[df$Player == "Davis Webb", "Under.Contract"] <- "Yes"


# Dennis Dixon
# https://www.pro-football-reference.com/players/D/DixoDe00.htm
df[df$Player == "Dennis Dixon", "Draft.Round"] <- 5
df[df$Player == "Dennis Dixon", "Years.on.Payroll"] <- 3
df[df$Player == "Dennis Dixon", "Games.Started"] <- 3


# Derek Anderson
# https://www.pro-football-reference.com/players/A/AndeDe00.htm
df[df$Player == "Derek Anderson", "Draft.Round"] <- 6
df[df$Player == "Derek Anderson", "Years.on.Payroll"] <- 13
df[df$Player == "Derek Anderson", "Games.Started"] <- 49


# Derek Carr
# https://www.pro-football-reference.com/players/C/CarrDe02.htm
df[df$Player == "Derek Carr", "Draft.Round"] <- 2
df[df$Player == "Derek Carr", "Years.on.Payroll"] <- 8
df[df$Player == "Derek Carr", "Games.Started"] <- 119
df[df$Player == "Derek Carr", "Under.Contract"] <- "Yes"


# Deshaun Watson
# https://www.pro-football-reference.com/players/W/WatsDe00.htm
df[df$Player == "Deshaun Watson", "Draft.Round"] <- 1
df[df$Player == "Deshaun Watson", "Years.on.Payroll"] <- 5
df[df$Player == "Deshaun Watson", "Games.Started"] <- 53
df[df$Player == "Deshaun Watson", "Under.Contract"] <- "Yes"


# DeShone Kizer
# https://www.pro-football-reference.com/players/K/KizeDe00.htm
df[df$Player == "DeShone Kizer", "Draft.Round"] <- 2
```

```r
df[df$Player == "DeShone Kizer", "Years.on.Payroll"] <- 2
df[df$Player == "DeShone Kizer", "Games.Started"] <- 15


# Drew Brees
# https://www.pro-football-reference.com/players/B/BreeDr00.htm
df[df$Player == "Drew Brees", "Draft.Round"] <- 2
df[df$Player == "Drew Brees", "Years.on.Payroll"] <- 20
df[df$Player == "Drew Brees", "Games.Started"] <- 286


# Drew Lock
# https://www.pro-football-reference.com/players/L/LockDr00.htm
df[df$Player == "Drew Lock", "Draft.Round"] <- 2
df[df$Player == "Drew Lock", "Years.on.Payroll"] <- 3
df[df$Player == "Drew Lock", "Games.Started"] <- 18
df[df$Player == "Drew Lock", "Under.Contract"] <- "Yes"


# Drew Stanton
# https://www.pro-football-reference.com/players/S/StanDr00.htm
df[df$Player == "Drew Stanton", "Draft.Round"] <- 2
df[df$Player == "Drew Stanton", "Years.on.Payroll"] <- 7
df[df$Player == "Drew Stanton", "Games.Started"] <- 17


# Dwayne Haskins
# https://www.pro-football-reference.com/players/H/HaskDw00.htm
df[df$Player == "Dwayne Haskins", "Draft.Round"] <- 1
df[df$Player == "Dwayne Haskins", "Years.on.Payroll"] <- 2
df[df$Player == "Dwayne Haskins", "Games.Started"] <- 13


# Eli Manning
# https://www.pro-football-reference.com/players/M/MannEl00.htm
df[df$Player == "Eli Manning", "Draft.Round"] <- 1
df[df$Player == "Eli Manning", "Years.on.Payroll"] <- 16
df[df$Player == "Eli Manning", "Games.Started"] <- 234


# Erik Ainge
# https://en.wikipedia.org/wiki/Erik_Ainge#Professional_career
df[df$Player == "Erik Ainge", "Draft.Round"] <- 5
df[df$Player == "Erik Ainge", "Years.on.Payroll"] <- 0
df[df$Player == "Erik Ainge", "Games.Started"] <- 0


# Gardner Minshew
# https://www.pro-football-reference.com/players/M/MinsGa00.htm
df[df$Player == "Gardner Minshew", "Draft.Round"] <- 6
df[df$Player == "Gardner Minshew", "Years.on.Payroll"] <- 3
df[df$Player == "Gardner Minshew", "Games.Started"] <- 20
df[df$Player == "Gardner Minshew", "Under.Contract"] <- "Yes"


# Garrett Gilbert
# https://www.pro-football-reference.com/players/G/GilbGa01.htm
df[df$Player == "Garrett Gilbert", "Draft.Round"] <- 6
df[df$Player == "Garrett Gilbert", "Years.on.Payroll"] <- 3
df[df$Player == "Garrett Gilbert", "Games.Started"] <- 1
```

```r
# Garrett Grayson
# https://www.pro-football-reference.com/players/G/GrayGa00.htm
df[df$Player == "Garrett Grayson", "Draft.Round"] <- 3
df[df$Player == "Garrett Grayson", "Years.on.Payroll"] <- 1
df[df$Player == "Garrett Grayson", "Games.Started"] <- 0


# Geno Smith
# https://www.pro-football-reference.com/players/S/SmitGe00.htm
df[df$Player == "Geno Smith", "Draft.Round"] <- 2
df[df$Player == "Geno Smith", "Years.on.Payroll"] <- 8
df[df$Player == "Geno Smith", "Games.Started"] <- 34
df[df$Player == "Geno Smith", "Under.Contract"] <- "Yes"


# Gibran Hamdan
# https://www.pro-football-reference.com/players/H/HamdGi00.htm
df[df$Player == "Gibran Hamdan", "Draft.Round"] <- 7
df[df$Player == "Gibran Hamdan", "Years.on.Payroll"] <- 1
df[df$Player == "Gibran Hamdan", "Games.Started"] <- 0


# Greg McElroy
# https://www.pro-football-reference.com/players/M/McElGr00.htm
df[df$Player == "Greg McElroy", "Draft.Round"] <- 7
df[df$Player == "Greg McElroy", "Years.on.Payroll"] <- 1
df[df$Player == "Greg McElroy", "Games.Started"] <- 1


# Isaiah Stanback
# https://www.pro-football-reference.com/players/S/StanIs00.htm
df[df$Player == "Isaiah Stanback", "Draft.Round"] <- 4
df[df$Player == "Isaiah Stanback", "Years.on.Payroll"] <- 4
df[df$Player == "Isaiah Stanback", "Games.Started"] <- 2


# J.P. Losman
# https://www.pro-football-reference.com/players/L/LosmJ.00.htm
df[df$Player == "J.P. Losman", "Draft.Round"] <- 1
df[df$Player == "J.P. Losman", "Years.on.Payroll"] <- 7
df[df$Player == "J.P. Losman", "Games.Started"] <- 33


# Jacoby Brissett
# https://www.pro-football-reference.com/players/B/BrisJa00.htm
df[df$Player == "Jacoby Brissett", "Draft.Round"] <- 3
df[df$Player == "Jacoby Brissett", "Years.on.Payroll"] <- 6
df[df$Player == "Jacoby Brissett", "Games.Started"] <- 37
df[df$Player == "Jacoby Brissett", "Under.Contract"] <- "Yes"


# Jake Locker
# https://www.pro-football-reference.com/players/L/LockJa00.htm
df[df$Player == "Jake Locker", "Draft.Round"] <- 1
df[df$Player == "Jake Locker", "Years.on.Payroll"] <- 4
df[df$Player == "Jake Locker", "Games.Started"] <- 23
```

```r
# Jake Rudock
# https://www.pro-football-reference.com/players/R/RudoJa00.htm
df[df$Player == "Jake Rudock", "Draft.Round"] <- 6
df[df$Player == "Jake Rudock", "Years.on.Payroll"] <- 1
df[df$Player == "Jake Rudock", "Games.Started"] <- 0


# Jameis Winston
# https://www.pro-football-reference.com/players/W/WinsJa00.htm
df[df$Player == "Jameis Winston", "Draft.Round"] <- 1
df[df$Player == "Jameis Winston", "Years.on.Payroll"] <- 5
df[df$Player == "Jameis Winston", "Games.Started"] <- 77
df[df$Player == "Jameis Winston", "Under.Contract"] <- "Yes"


# James Kilian
# https://en.wikipedia.org/wiki/James_Kilian
df[df$Player == "James Kilian", "Draft.Round"] <- 7
df[df$Player == "James Kilian", "Years.on.Payroll"] <- 0
df[df$Player == "James Kilian", "Games.Started"] <- 0


# Jared Goff
# https://www.pro-football-reference.com/players/G/GoffJa00.htm
df[df$Player == "Jared Goff", "Draft.Round"] <- 1
df[df$Player == "Jared Goff", "Years.on.Payroll"] <- 6
df[df$Player == "Jared Goff", "Games.Started"] <- 78
df[df$Player == "Jared Goff", "Under.Contract"] <- "Yes"


# Jarious Jackson
# https://www.pro-football-reference.com/players/J/JackJa01.htm
df[df$Player == "Jarious Jackson", "Draft.Round"] <- 7
df[df$Player == "Jarious Jackson", "Years.on.Payroll"] <- 4
df[df$Player == "Jarious Jackson", "Games.Started"] <- 1


# Jarrett Stidham
# https://www.pro-football-reference.com/players/S/StidJa00.htm
df[df$Player == "Jarrett Stidham", "Draft.Round"] <- 4
df[df$Player == "Jarrett Stidham", "Years.on.Payroll"] <- 2
df[df$Player == "Jarrett Stidham", "Games.Started"] <- 0


# Jason Campbell
# https://www.pro-football-reference.com/players/C/CampJa00.htm
df[df$Player == "Jason Campbell", "Draft.Round"] <- 1
df[df$Player == "Jason Campbell", "Years.on.Payroll"] <- 9
df[df$Player == "Jason Campbell", "Games.Started"] <- 79


# Jay Cutler
# https://www.pro-football-reference.com/players/C/CutlJa00.htm
df[df$Player == "Jay Cutler", "Draft.Round"] <- 1
df[df$Player == "Jay Cutler", "Years.on.Payroll"] <- 12
df[df$Player == "Jay Cutler", "Games.Started"] <- 153
```

```r
# Jeff Driskel
# https://www.pro-football-reference.com/players/D/DrisJe00.htm
df[df$Player == "Jeff Driskel", "Draft.Round"] <- 6
df[df$Player == "Jeff Driskel", "Years.on.Payroll"] <- 3
df[df$Player == "Jeff Driskel", "Games.Started"] <- 9


# Jeff Kelly
# https://www.pro-football-reference.com/players/K/KellJe20.htm
df[df$Player == "Jeff Kelly", "Draft.Round"] <- 6
df[df$Player == "Jeff Kelly", "Years.on.Payroll"] <- 3
df[df$Player == "Jeff Kelly", "Games.Started"] <- 7


# Jeff Rowe
# https://www.pro-football-reference.com/players/R/RoweJe00.htm
df[df$Player == "Jeff Rowe", "Draft.Round"] <- 5
df[df$Player == "Jeff Rowe", "Years.on.Payroll"] <- 1
df[df$Player == "Jeff Rowe", "Games.Started"] <- 0


# Jeff Smoker
# https://en.wikipedia.org/wiki/Jeff_Smoker
df[df$Player == "Jeff Smoker", "Draft.Round"] <- 6
df[df$Player == "Jeff Smoker", "Years.on.Payroll"] <- 1
df[df$Player == "Jeff Smoker", "Games.Started"] <- 0


# Jesse Palmer
# https://www.pro-football-reference.com/players/P/PalmJe00.htm
df[df$Player == "Jesse Palmer", "Draft.Round"] <- 4
df[df$Player == "Jesse Palmer", "Years.on.Payroll"] <- 2
df[df$Player == "Jesse Palmer", "Games.Started"] <- 3


# Jim Sorgi
# https://www.pro-football-reference.com/players/S/SorgJi00.htm
df[df$Player == "Jim Sorgi", "Draft.Round"] <- 6
df[df$Player == "Jim Sorgi", "Years.on.Payroll"] <- 6
df[df$Player == "Jim Sorgi", "Games.Started"] <- 0


# Jimmy Clausen
# https://www.pro-football-reference.com/players/C/ClauJi00.htm
df[df$Player == "Jimmy Clausen", "Draft.Round"] <- 2
df[df$Player == "Jimmy Clausen", "Years.on.Payroll"] <- 3
df[df$Player == "Jimmy Clausen", "Games.Started"] <- 14


# Joe Hamilton
# https://www.pro-football-reference.com/players/H/HamiJo20.htm
df[df$Player == "Joe Hamilton", "Draft.Round"] <- 7
df[df$Player == "Joe Hamilton", "Years.on.Payroll"] <- 1
df[df$Player == "Joe Hamilton", "Games.Started"] <- 0


# Joe Webb
# https://www.pro-football-reference.com/players/W/WebbJo00.htm
df[df$Player == "Joe Webb", "Draft.Round"] <- 6
df[df$Player == "Joe Webb", "Years.on.Payroll"] <- 10
df[df$Player == "Joe Webb", "Games.Started"] <- 4
```

```r
# Joey Harrington
# https://www.pro-football-reference.com/players/H/HarrJo00.htm
df[df$Player == "Joey Harrington", "Draft.Round"] <- 1
df[df$Player == "Joey Harrington", "Years.on.Payroll"] <- 6
df[df$Player == "Joey Harrington", "Games.Started"] <- 76


# John Beck
# https://www.pro-football-reference.com/players/B/BeckJo00.htm
df[df$Player == "John Beck", "Draft.Round"] <- 2
df[df$Player == "John Beck", "Years.on.Payroll"] <- 2
df[df$Player == "John Beck", "Games.Started"] <- 7


# John David Booty
# https://en.wikipedia.org/wiki/John_David_Booty#Minnesota_Vikings
df[df$Player == "John David Booty", "Draft.Round"] <- 5
df[df$Player == "John David Booty", "Years.on.Payroll"] <- 1
df[df$Player == "John David Booty", "Games.Started"] <- 0


# John Navarre
# https://www.pro-football-reference.com/players/N/NavaJo00.htm
df[df$Player == "John Navarre", "Draft.Round"] <- 7
df[df$Player == "John Navarre", "Years.on.Payroll"] <- 2
df[df$Player == "John Navarre", "Games.Started"] <- 1


# Johnny Manziel
# https://www.pro-football-reference.com/players/M/ManzJo00.htm
df[df$Player == "Johnny Manziel", "Draft.Round"] <- 1
df[df$Player == "Johnny Manziel", "Years.on.Payroll"] <- 2
df[df$Player == "Johnny Manziel", "Games.Started"] <- 8


# Jonathan Crompton
# https://en.wikipedia.org/wiki/Jonathan_Crompton#Professional_career
df[df$Player == "Jonathan Crompton", "Draft.Round"] <- 5
df[df$Player == "Jonathan Crompton", "Years.on.Payroll"] <- 0
df[df$Player == "Jonathan Crompton", "Games.Started"] <- 0


# Jordan Palmer
# https://www.pro-football-reference.com/players/P/PalmJo20.htm
df[df$Player == "Jordan Palmer", "Draft.Round"] <- 6
df[df$Player == "Jordan Palmer", "Years.on.Payroll"] <- 3
df[df$Player == "Jordan Palmer", "Games.Started"] <- 0


# Josh Booty
# https://en.wikipedia.org/wiki/Josh_Booty#Professional_football_career
df[df$Player == "Josh Booty", "Draft.Round"] <- 6
df[df$Player == "Josh Booty", "Years.on.Payroll"] <- 0
df[df$Player == "Josh Booty", "Games.Started"] <- 0


# Josh Freeman
# https://www.pro-football-reference.com/players/F/FreeJo00.htm
df[df$Player == "Josh Freeman", "Draft.Round"] <- 1
df[df$Player == "Josh Freeman", "Years.on.Payroll"] <- 7
df[df$Player == "Josh Freeman", "Games.Started"] <- 61
```

```r
# Josh Harris
# https://en.wikipedia.org/wiki/Josh_Harris_(quarterback)#Professional_career
df[df$Player == "Josh Harris", "Draft.Round"] <- 6
df[df$Player == "Josh Harris", "Years.on.Payroll"] <- 2
df[df$Player == "Josh Harris", "Games.Started"] <- 0


# Josh Heupel
# https://en.wikipedia.org/wiki/Josh_Heupel
df[df$Player == "Josh Heupel", "Draft.Round"] <- 6
df[df$Player == "Josh Heupel", "Years.on.Payroll"] <- 0
df[df$Player == "Josh Heupel", "Games.Started"] <- 0


# Josh McCown
# https://www.pro-football-reference.com/players/M/McCoJo01.htm
df[df$Player == "Josh McCown", "Draft.Round"] <- 3
df[df$Player == "Josh McCown", "Years.on.Payroll"] <- 16
df[df$Player == "Josh McCown", "Games.Started"] <- 76


# Josh Rosen
# https://www.pro-football-reference.com/players/R/RoseJo01.htm
df[df$Player == "Josh Rosen", "Draft.Round"] <- 1
df[df$Player == "Josh Rosen", "Years.on.Payroll"] <- 3
df[df$Player == "Josh Rosen", "Games.Started"] <- 16
df[df$Player == "Josh Rosen", "Under.Contract"] <- "Yes"


# Joshua Dobbs
# https://www.pro-football-reference.com/players/D/DobbJo00.htm
df[df$Player == "Joshua Dobbs", "Draft.Round"] <- 4
df[df$Player == "Joshua Dobbs", "Years.on.Payroll"] <- 2
df[df$Player == "Joshua Dobbs", "Games.Started"] <- 0


# Keith Wenning
# https://www.pro-football-reference.com/players/W/WennKe00.htm
df[df$Player == "Keith Wenning", "Draft.Round"] <- 6
df[df$Player == "Keith Wenning", "Years.on.Payroll"] <- 1
df[df$Player == "Keith Wenning", "Games.Started"] <- 0


# Kellen Clemens
# https://www.pro-football-reference.com/players/C/ClemKe00.htm
df[df$Player == "Kellen Clemens", "Draft.Round"] <- 2
df[df$Player == "Kellen Clemens", "Years.on.Payroll"] <- 12
df[df$Player == "Kellen Clemens", "Games.Started"] <- 21


# Ken Dorsey
# https://www.pro-football-reference.com/players/D/DorsKe00.htm
df[df$Player == "Ken Dorsey", "Draft.Round"] <- 7
df[df$Player == "Ken Dorsey", "Years.on.Payroll"] <- 5
df[df$Player == "Ken Dorsey", "Games.Started"] <- 13


# Kevin Hogan
# https://www.pro-football-reference.com/players/H/HogaKe00.htm
```

```
df[df$Player == "Kevin Hogan", "Draft.Round"] <- 5
df[df$Player == "Kevin Hogan", "Years.on.Payroll"] <- 2
df[df$Player == "Kevin Hogan", "Games.Started"] <- 1


# Kevin Kolb
# https://www.pro-football-reference.com/players/K/KolbKe00.htm
df[df$Player == "Kevin Kolb", "Draft.Round"] <- 2
df[df$Player == "Kevin Kolb", "Years.on.Payroll"] <- 6
df[df$Player == "Kevin Kolb", "Games.Started"] <- 21


# Kevin O'Connell
# https://www.pro-football-reference.com/players/O/OConKe00.htm
df[df$Player == "Kevin O'Connell", "Draft.Round"] <- 3
df[df$Player == "Kevin O'Connell", "Years.on.Payroll"] <- 1
df[df$Player == "Kevin O'Connell", "Games.Started"] <- 0


# Kirk Cousins
# https://www.pro-football-reference.com/players/C/CousKi00.htm
df[df$Player == "Kirk Cousins", "Draft.Round"] <- 4
df[df$Player == "Kirk Cousins", "Years.on.Payroll"] <- 10
df[df$Player == "Kirk Cousins", "Games.Started"] <- 114
df[df$Player == "Kirk Cousins", "Under.Contract"] <- "Yes"


# Kliff Kingsbury
# https://www.pro-football-reference.com/players/K/KingKl00.htm
df[df$Player == "Kliff Kingsbury", "Draft.Round"] <- 6
df[df$Player == "Kliff Kingsbury", "Years.on.Payroll"] <- 1
df[df$Player == "Kliff Kingsbury", "Games.Started"] <- 0


# Kurt Kittner
# https://www.pro-football-reference.com/players/K/KittKu00.htm
df[df$Player == "Kurt Kittner", "Draft.Round"] <- 5
df[df$Player == "Kurt Kittner", "Years.on.Payroll"] <- 1
df[df$Player == "Kurt Kittner", "Games.Started"] <- 4


# Kyle Boller
# https://www.pro-football-reference.com/players/B/BollKy00.htm
df[df$Player == "Kyle Boller", "Draft.Round"] <- 1
df[df$Player == "Kyle Boller", "Years.on.Payroll"] <- 8
df[df$Player == "Kyle Boller", "Games.Started"] <- 47


# Kyle Orton
# https://www.pro-football-reference.com/players/O/OrtoKy00.htm
df[df$Player == "Kyle Orton", "Draft.Round"] <- 4
df[df$Player == "Kyle Orton", "Years.on.Payroll"] <- 10
df[df$Player == "Kyle Orton", "Games.Started"] <- 82


# Kyler Murray
# https://www.pro-football-reference.com/players/M/MurrKy00.htm
df[df$Player == "Kyler Murray", "Draft.Round"] <- 1
df[df$Player == "Kyler Murray", "Years.on.Payroll"] <- 3
```

```r
df[df$Player == "Kyler Murray", "Games.Started"] <- 40
df[df$Player == "Kyler Murray", "Under.Contract"] <- "Yes"


# Lamar Jackson
# https://www.pro-football-reference.com/players/J/JackLa00.htm
df[df$Player == "Lamar Jackson", "Draft.Round"] <- 1
df[df$Player == "Lamar Jackson", "Years.on.Payroll"] <- 4
df[df$Player == "Lamar Jackson", "Games.Started"] <- 46
df[df$Player == "Lamar Jackson", "Under.Contract"] <- "Yes"


# Landry Jones
# https://www.pro-football-reference.com/players/J/JoneLa02.htm
df[df$Player == "Landry Jones", "Draft.Round"] <- 4
df[df$Player == "Landry Jones", "Years.on.Payroll"] <- 4
df[df$Player == "Landry Jones", "Games.Started"] <- 5


# Levi Brown
# https://www.pro-football-reference.com/players/B/BrowLe00.htm
df[df$Player == "Levi Brown", "Draft.Round"] <- 7
df[df$Player == "Levi Brown", "Years.on.Payroll"] <- 1
df[df$Player == "Levi Brown", "Games.Started"] <- 0


# Logan Thomas
# https://www.pro-football-reference.com/players/T/ThomLo00.htm
df[df$Player == "Logan Thomas", "Draft.Round"] <- 4
df[df$Player == "Logan Thomas", "Years.on.Payroll"] <- 6
df[df$Player == "Logan Thomas", "Games.Started"] <- 27
df[df$Player == "Logan Thomas", "Under.Contract"] <- "Yes"


# Logan Woodside
# https://www.pro-football-reference.com/players/W/WoodLo00.htm
df[df$Player == "Logan Woodside", "Draft.Round"] <- 7
df[df$Player == "Logan Woodside", "Years.on.Payroll"] <- 2
df[df$Player == "Logan Woodside", "Games.Started"] <- 0
df[df$Player == "Logan Woodside", "Under.Contract"] <- "Yes"


# Luke Falk
# https://www.pro-football-reference.com/players/F/FalkLu00.htm
df[df$Player == "Luke Falk", "Draft.Round"] <- 6
df[df$Player == "Luke Falk", "Years.on.Payroll"] <- 1
df[df$Player == "Luke Falk", "Games.Started"] <- 2


# Luke McCown
# https://www.pro-football-reference.com/players/M/McCoLu00.htm
df[df$Player == "Luke McCown", "Draft.Round"] <- 4
df[df$Player == "Luke McCown", "Years.on.Payroll"] <- 10
df[df$Player == "Luke McCown", "Games.Started"] <- 10


# Marcus Mariota
# https://www.pro-football-reference.com/players/M/MariMa01.htm
df[df$Player == "Marcus Mariota", "Draft.Round"] <- 1
```

```r
df[df$Player == "Marcus Mariota", "Years.on.Payroll"] <- 7
df[df$Player == "Marcus Mariota", "Games.Started"] <- 61
df[df$Player == "Marcus Mariota", "Under.Contract"] <- "Yes"


# Mark Sanchez
# https://www.pro-football-reference.com/players/S/SancMa00.htm
df[df$Player == "Mark Sanchez", "Draft.Round"] <- 1
df[df$Player == "Mark Sanchez", "Years.on.Payroll"] <- 8
df[df$Player == "Mark Sanchez", "Games.Started"] <- 73


# Marques Tuiasosopo
# https://www.pro-football-reference.com/players/T/TuiaMa00.htm
df[df$Player == "Marques Tuiasosopo", "Draft.Round"] <- 2
df[df$Player == "Marques Tuiasosopo", "Years.on.Payroll"] <- 6
df[df$Player == "Marques Tuiasosopo", "Games.Started"] <- 2


# Mason Rudolph
# https://www.pro-football-reference.com/players/R/RudoMa00.htm
df[df$Player == "Mason Rudolph", "Draft.Round"] <- 3
df[df$Player == "Mason Rudolph", "Years.on.Payroll"] <- 3
df[df$Player == "Mason Rudolph", "Games.Started"] <- 10
df[df$Player == "Mason Rudolph", "Under.Contract"] <- "Yes"


# Matt Barkley
# https://www.pro-football-reference.com/players/B/BarkMa00.htm
df[df$Player == "Matt Barkley", "Draft.Round"] <- 4
df[df$Player == "Matt Barkley", "Years.on.Payroll"] <- 6
df[df$Player == "Matt Barkley", "Games.Started"] <- 7


# Matt Flynn
# https://www.pro-football-reference.com/players/F/FlynMa00.htm
df[df$Player == "Matt Flynn", "Draft.Round"] <- 7
df[df$Player == "Matt Flynn", "Years.on.Payroll"] <- 7
df[df$Player == "Matt Flynn", "Games.Started"] <- 7


# Matt Leinart
# https://www.pro-football-reference.com/players/L/LeinMa00.htm
df[df$Player == "Matt Leinart", "Draft.Round"] <- 1
df[df$Player == "Matt Leinart", "Years.on.Payroll"] <- 6
df[df$Player == "Matt Leinart", "Games.Started"] <- 18


# Matt Mauck
# https://www.pro-football-reference.com/players/M/MaucMa00.htm
df[df$Player == "Matt Mauck", "Draft.Round"] <- 7
df[df$Player == "Matt Mauck", "Years.on.Payroll"] <- 1
df[df$Player == "Matt Mauck", "Games.Started"] <- 1


# Matt Ryan
# https://www.pro-football-reference.com/players/R/RyanMa00.htm
df[df$Player == "Matt Ryan", "Draft.Round"] <- 1
df[df$Player == "Matt Ryan", "Years.on.Payroll"] <- 14
```

```r
df[df$Player == "Matt Ryan", "Games.Started"] <- 215
df[df$Player == "Matt Ryan", "Under.Contract"] <- "Yes"


# Matthew Stafford
# https://www.pro-football-reference.com/players/S/StafMa00.htm
df[df$Player == "Matthew Stafford", "Draft.Round"] <- 1
df[df$Player == "Matthew Stafford", "Years.on.Payroll"] <- 13
df[df$Player == "Matthew Stafford", "Games.Started"] <- 175
df[df$Player == "Matthew Stafford", "Under.Contract"] <- "Yes"


# Michael Vick
# https://www.pro-football-reference.com/players/V/VickMi00.htm
df[df$Player == "Michael Vick", "Draft.Round"] <- 1
df[df$Player == "Michael Vick", "Years.on.Payroll"] <- 13
df[df$Player == "Michael Vick", "Games.Started"] <- 115


# Mike Glennon
# https://www.pro-football-reference.com/players/G/GlenMi00.htm
df[df$Player == "Mike Glennon", "Draft.Round"] <- 3
df[df$Player == "Mike Glennon", "Years.on.Payroll"] <- 8
df[df$Player == "Mike Glennon", "Games.Started"] <- 27
df[df$Player == "Mike Glennon", "Under.Contract"] <- "Yes"


# Mike McMahon
# https://www.pro-football-reference.com/players/M/McMaMi00.htm
df[df$Player == "Mike McMahon", "Draft.Round"] <- 5
df[df$Player == "Mike McMahon", "Years.on.Payroll"] <- 5
df[df$Player == "Mike McMahon", "Games.Started"] <- 14


# Mike Teel
# https://en.wikipedia.org/wiki/Mike_Teel#Professional_career
df[df$Player == "Mike Teel", "Draft.Round"] <- 6
df[df$Player == "Mike Teel", "Years.on.Payroll"] <- 1
df[df$Player == "Mike Teel", "Games.Started"] <- 0


# Mike White
# https://www.pro-football-reference.com/players/W/WhitMi01.htm
df[df$Player == "Mike White", "Draft.Round"] <- 5
df[df$Player == "Mike White", "Years.on.Payroll"] <- 1
df[df$Player == "Mike White", "Games.Started"] <- 3
df[df$Player == "Mike White", "Under.Contract"] <- "Yes"


# Nate Davis
# https://en.wikipedia.org/wiki/Nate_Davis_(quarterback)#Professional_career
df[df$Player == "Nate Davis", "Draft.Round"] <- 5
df[df$Player == "Nate Davis", "Years.on.Payroll"] <- 1
df[df$Player == "Nate Davis", "Games.Started"] <- 0


# Nate Sudfeld
# https://www.pro-football-reference.com/players/S/SudfNa00.htm
df[df$Player == "Nate Sudfeld", "Draft.Round"] <- 6
```

```r
df[df$Player == "Nate Sudfeld", "Years.on.Payroll"] <- 3
df[df$Player == "Nate Sudfeld", "Games.Started"] <- 0


# Nathan Enderle
# https://en.wikipedia.org/wiki/Nathan_Enderle#Professional_career
df[df$Player == "Nathan Enderle", "Draft.Round"] <- 5
df[df$Player == "Nathan Enderle", "Years.on.Payroll"] <- 1
df[df$Player == "Nathan Enderle", "Games.Started"] <- 0


# Nathan Peterman
# https://www.pro-football-reference.com/players/P/PeteNa00.htm
df[df$Player == "Nathan Peterman", "Draft.Round"] <- 5
df[df$Player == "Nathan Peterman", "Years.on.Payroll"] <- 4
df[df$Player == "Nathan Peterman", "Games.Started"] <- 4
df[df$Player == "Nathan Peterman", "Under.Contract"] <- "Yes"


# Nick Foles
# https://www.pro-football-reference.com/players/F/FoleNi00.htm
df[df$Player == "Nick Foles", "Draft.Round"] <- 3
df[df$Player == "Nick Foles", "Years.on.Payroll"] <- 9
df[df$Player == "Nick Foles", "Games.Started"] <- 55


# Omar Jacobs
# https://en.wikipedia.org/wiki/Omar_Jacobs
df[df$Player == "Omar Jacobs", "Draft.Round"] <- 5
df[df$Player == "Omar Jacobs", "Years.on.Payroll"] <- 0
df[df$Player == "Omar Jacobs", "Games.Started"] <- 0


# Pat White
# https://en.wikipedia.org/wiki/Pat_White_(American_football)
df[df$Player == "Pat White", "Draft.Round"] <- 2
df[df$Player == "Pat White", "Years.on.Payroll"] <- 1
df[df$Player == "Pat White", "Games.Started"] <- 0


# Patrick Mahomes
# https://www.pro-football-reference.com/players/M/MahoPa00.htm
df[df$Player == "Patrick Mahomes", "Draft.Round"] <- 1
df[df$Player == "Patrick Mahomes", "Years.on.Payroll"] <- 5
df[df$Player == "Patrick Mahomes", "Games.Started"] <- 57
df[df$Player == "Patrick Mahomes", "Under.Contract"] <- "Yes"


# Patrick Ramsey
# https://www.pro-football-reference.com/players/R/RamsPa00.htm
df[df$Player == "Patrick Ramsey", "Draft.Round"] <- 1
df[df$Player == "Patrick Ramsey", "Years.on.Payroll"] <- 7
df[df$Player == "Patrick Ramsey", "Games.Started"] <- 24


# Paxton Lynch
# https://www.pro-football-reference.com/players/L/LyncPa00.htm
df[df$Player == "Paxton Lynch", "Draft.Round"] <- 1
df[df$Player == "Paxton Lynch", "Years.on.Payroll"] <- 2
df[df$Player == "Paxton Lynch", "Games.Started"] <- 4
```

```r
# Philip Rivers
# https://www.pro-football-reference.com/players/R/RivePh00.htm
df[df$Player == "Philip Rivers", "Draft.Round"] <- 1
df[df$Player == "Philip Rivers", "Years.on.Payroll"] <- 17
df[df$Player == "Philip Rivers", "Games.Started"] <- 240


# Quincy Carter
# https://www.pro-football-reference.com/players/C/CartQu00.htm
df[df$Player == "Quincy Carter", "Draft.Round"] <- 2
df[df$Player == "Quincy Carter", "Years.on.Payroll"] <- 4
df[df$Player == "Quincy Carter", "Games.Started"] <- 34


# Reggie McNeal
# https://www.pro-football-reference.com/players/M/McNeRe00.htm
df[df$Player == "Reggie McNeal", "Draft.Round"] <- 6
df[df$Player == "Reggie McNeal", "Years.on.Payroll"] <- 1
df[df$Player == "Reggie McNeal", "Games.Started"] <- 0


# Rex Grossman
# https://www.pro-football-reference.com/players/G/GrosRe00.htm
df[df$Player == "Rex Grossman", "Draft.Round"] <- 1
df[df$Player == "Rex Grossman", "Years.on.Payroll"] <- 9
df[df$Player == "Rex Grossman", "Games.Started"] <- 47


# Rhett Bomar
# https://en.wikipedia.org/wiki/Rhett_Bomar#Professional_career
df[df$Player == "Rhett Bomar", "Draft.Round"] <- 5
df[df$Player == "Rhett Bomar", "Years.on.Payroll"] <- 2
df[df$Player == "Rhett Bomar", "Games.Started"] <- 0


# Ricky Stanzi
# https://en.wikipedia.org/wiki/Ricky_Stanzi#Professional_career
df[df$Player == "Ricky Stanzi", "Draft.Round"] <- 5
df[df$Player == "Ricky Stanzi", "Years.on.Payroll"] <- 1
df[df$Player == "Ricky Stanzi", "Games.Started"] <- 0


# Robert Griffin III
# https://www.pro-football-reference.com/players/G/GrifRo01.htm
df[df$Player == "Robert Griffin III", "Draft.Round"] <- 1
df[df$Player == "Robert Griffin III", "Years.on.Payroll"] <- 7
df[df$Player == "Robert Griffin III", "Games.Started"] <- 42


# Rohan Davey
# https://www.pro-football-reference.com/players/D/DaveRo01.htm
df[df$Player == "Rohan Davey", "Draft.Round"] <- 4
df[df$Player == "Rohan Davey", "Years.on.Payroll"] <- 3
df[df$Player == "Rohan Davey", "Games.Started"] <- 0


# Russell Wilson
# https://www.pro-football-reference.com/players/W/WilsRu00.htm
df[df$Player == "Russell Wilson", "Draft.Round"] <- 3
```

```r
df[df$Player == "Russell Wilson", "Years.on.Payroll"] <- 10
df[df$Player == "Russell Wilson", "Games.Started"] <- 151
df[df$Player == "Russell Wilson", "Under.Contract"] <- "Yes"


# Rusty Smith
# https://www.pro-football-reference.com/players/S/SmitRu01.htm
df[df$Player == "Rusty Smith", "Draft.Round"] <- 6
df[df$Player == "Rusty Smith", "Years.on.Payroll"] <- 2
df[df$Player == "Rusty Smith", "Games.Started"] <- 1


# Ryan Finley
# https://www.pro-football-reference.com/players/F/FinlRy00.htm
df[df$Player == "Ryan Finley", "Draft.Round"] <- 4
df[df$Player == "Ryan Finley", "Years.on.Payroll"] <- 2
df[df$Player == "Ryan Finley", "Games.Started"] <- 4


# Ryan Lindley
# https://www.pro-football-reference.com/players/L/LindRy00.htm
df[df$Player == "Ryan Lindley", "Draft.Round"] <- 6
df[df$Player == "Ryan Lindley", "Years.on.Payroll"] <- 3
df[df$Player == "Ryan Lindley", "Games.Started"] <- 6


# Ryan Mallett
# https://www.pro-football-reference.com/players/M/MallRy00.htm
df[df$Player == "Ryan Mallett", "Draft.Round"] <- 3
df[df$Player == "Ryan Mallett", "Years.on.Payroll"] <- 5
df[df$Player == "Ryan Mallett", "Games.Started"] <- 8


# Ryan Nassib
# https://www.pro-football-reference.com/players/N/NassRy00.htm
df[df$Player == "Ryan Nassib", "Draft.Round"] <- 4
df[df$Player == "Ryan Nassib", "Years.on.Payroll"] <- 2
df[df$Player == "Ryan Nassib", "Games.Started"] <- 0


# Ryan Tannehill
# https://www.pro-football-reference.com/players/T/TannRy00.htm
df[df$Player == "Ryan Tannehill", "Draft.Round"] <- 1
df[df$Player == "Ryan Tannehill", "Years.on.Payroll"] <- 9
df[df$Player == "Ryan Tannehill", "Games.Started"] <- 125
df[df$Player == "Ryan Tannehill", "Under.Contract"] <- "Yes"


# Sage Rosenfels
# https://www.pro-football-reference.com/players/R/RoseSa00.htm
df[df$Player == "Sage Rosenfels", "Draft.Round"] <- 4
df[df$Player == "Sage Rosenfels", "Years.on.Payroll"] <- 8
df[df$Player == "Sage Rosenfels", "Games.Started"] <- 12


# Sam Bradford
# https://www.pro-football-reference.com/players/B/BradSa00.htm
df[df$Player == "Sam Bradford", "Draft.Round"] <- 1
df[df$Player == "Sam Bradford", "Years.on.Payroll"] <- 8
df[df$Player == "Sam Bradford", "Games.Started"] <- 83
```

```r
# Sam Darnold
# https://www.pro-football-reference.com/players/D/DarnSa00.htm
df[df$Player == "Sam Darnold", "Draft.Round"] <- 1
df[df$Player == "Sam Darnold", "Years.on.Payroll"] <- 4
df[df$Player == "Sam Darnold", "Games.Started"] <- 47
df[df$Player == "Sam Darnold", "Under.Contract"] <- "Yes"


# Sean Canfield
# https://en.wikipedia.org/wiki/Sean_Canfield#Professional_career
df[df$Player == "Sean Canfield", "Draft.Round"] <- 7
df[df$Player == "Sean Canfield", "Years.on.Payroll"] <- 2
df[df$Player == "Sean Canfield", "Games.Started"] <- 0


# Sean Mannion
# https://www.pro-football-reference.com/players/M/MannSe00.htm
df[df$Player == "Sean Mannion", "Draft.Round"] <- 3
df[df$Player == "Sean Mannion", "Years.on.Payroll"] <- 5
df[df$Player == "Sean Mannion", "Games.Started"] <- 2


# Sean Renfree
# https://www.pro-football-reference.com/players/R/RenfSe00.htm
df[df$Player == "Sean Renfree", "Draft.Round"] <- 7
df[df$Player == "Sean Renfree", "Years.on.Payroll"] <- 1
df[df$Player == "Sean Renfree", "Games.Started"] <- 0


# Seneca Wallace
# https://www.pro-football-reference.com/players/W/WallSe00.htm
df[df$Player == "Seneca Wallace", "Draft.Round"] <- 4
df[df$Player == "Seneca Wallace", "Years.on.Payroll"] <- 8
df[df$Player == "Seneca Wallace", "Games.Started"] <- 22


# Stefan Lefors
# https://en.wikipedia.org/wiki/Stefan_LeFors#Professional_career
df[df$Player == "Stefan Lefors", "Draft.Round"] <- 4
df[df$Player == "Stefan Lefors", "Years.on.Payroll"] <- 1
df[df$Player == "Stefan Lefors", "Games.Started"] <- 0


# Stephen McGee
# https://www.pro-football-reference.com/players/M/McGeSt00.htm
df[df$Player == "Stephen McGee", "Draft.Round"] <- 4
df[df$Player == "Stephen McGee", "Years.on.Payroll"] <- 2
df[df$Player == "Stephen McGee", "Games.Started"] <- 1


# Steve Bellisari
# https://en.wikipedia.org/wiki/Steve_Bellisari#Professional_career
df[df$Player == "Steve Bellisari", "Draft.Round"] <- 6
df[df$Player == "Steve Bellisari", "Years.on.Payroll"] <- 0
df[df$Player == "Steve Bellisari", "Games.Started"] <- 0


# T.J. Yates
# https://www.pro-football-reference.com/players/Y/YateT.00.htm
```

```r
df[df$Player == "T.J. Yates", "Draft.Round"] <- 5
df[df$Player == "T.J. Yates", "Years.on.Payroll"] <- 7
df[df$Player == "T.J. Yates", "Games.Started"] <- 10


# Tajh Boyd
# https://en.wikipedia.org/wiki/Tajh_Boyd
df[df$Player == "Tajh Boyd", "Draft.Round"] <- 6
df[df$Player == "Tajh Boyd", "Years.on.Payroll"] <- 0
df[df$Player == "Tajh Boyd", "Games.Started"] <- 0


# Tanner Lee
# https://en.wikipedia.org/wiki/Tanner_Lee#Professional_career
df[df$Player == "Tanner Lee", "Draft.Round"] <- 6
df[df$Player == "Tanner Lee", "Years.on.Payroll"] <- 1
df[df$Player == "Tanner Lee", "Games.Started"] <- 0


# Teddy Bridgewater
# https://www.pro-football-reference.com/players/B/BridTe00.htm
df[df$Player == "Teddy Bridgewater", "Draft.Round"] <- 1
df[df$Player == "Teddy Bridgewater", "Years.on.Payroll"] <- 7
df[df$Player == "Teddy Bridgewater", "Games.Started"] <- 59
df[df$Player == "Teddy Bridgewater", "Under.Contract"] <- "Yes"


# Tee Martin
# https://www.pro-football-reference.com/players/M/MartTe00.htm
df[df$Player == "Tee Martin", "Draft.Round"] <- 5
df[df$Player == "Tee Martin", "Years.on.Payroll"] <- 2
df[df$Player == "Tee Martin", "Games.Started"] <- 0


# Tim Rattay
# https://www.pro-football-reference.com/players/R/RattTi00.htm
df[df$Player == "Tim Rattay", "Draft.Round"] <- 7
df[df$Player == "Tim Rattay", "Years.on.Payroll"] <- 8
df[df$Player == "Tim Rattay", "Games.Started"] <- 18


# Tim Tebow
# https://www.pro-football-reference.com/players/T/TeboTi00.htm
df[df$Player == "Tim Tebow", "Draft.Round"] <- 1
df[df$Player == "Tim Tebow", "Years.on.Payroll"] <- 3
df[df$Player == "Tim Tebow", "Games.Started"] <- 16


# Todd Husak
# https://www.pro-football-reference.com/players/H/HusaTo20.htm
df[df$Player == "Todd Husak", "Draft.Round"] <- 6
df[df$Player == "Todd Husak", "Years.on.Payroll"] <- 1
df[df$Player == "Todd Husak", "Games.Started"] <- 0


# Tom Brady
# https://www.pro-football-reference.com/players/B/BradTo00.htm
df[df$Player == "Tom Brady", "Draft.Round"] <- 6
df[df$Player == "Tom Brady", "Years.on.Payroll"] <- 22
```

```r
df[df$Player == "Tom Brady", "Games.Started"] <- 308
df[df$Player == "Tom Brady", "Under.Contract"] <- "Yes"


# Tom Brandstater
# https://www.pro-football-reference.com/players/B/BranTo00.htm
df[df$Player == "Tom Brandstater", "Draft.Round"] <- 6
df[df$Player == "Tom Brandstater", "Years.on.Payroll"] <- 1
df[df$Player == "Tom Brandstater", "Games.Started"] <- 0


# Tom Savage
# https://www.pro-football-reference.com/players/S/SavaTo00.htm
df[df$Player == "Tom Savage", "Draft.Round"] <- 4
df[df$Player == "Tom Savage", "Years.on.Payroll"] <- 3
df[df$Player == "Tom Savage", "Games.Started"] <- 9


# Tony Pike
# https://www.pro-football-reference.com/players/P/PikeTo00.htm
df[df$Player == "Tony Pike", "Draft.Round"] <- 6
df[df$Player == "Tony Pike", "Years.on.Payroll"] <- 1
df[df$Player == "Tony Pike", "Games.Started"] <- 0


# Trace McSorley
# https://www.pro-football-reference.com/players/M/McSoTr00.htm
df[df$Player == "Trace McSorley", "Draft.Round"] <- 6
df[df$Player == "Trace McSorley", "Years.on.Payroll"] <- 2
df[df$Player == "Trace McSorley", "Games.Started"] <- 0


# Trent Edwards
# pro-football-reference.com/players/E/EdwaTr01.htm
df[df$Player == "Trent Edwards", "Draft.Round"] <- 3
df[df$Player == "Trent Edwards", "Years.on.Payroll"] <- 6
df[df$Player == "Trent Edwards", "Games.Started"] <- 33


# Trevor Siemian
# https://www.pro-football-reference.com/players/S/SiemTr00.htm
df[df$Player == "Trevor Siemian", "Draft.Round"] <- 7
df[df$Player == "Trevor Siemian", "Years.on.Payroll"] <- 5
df[df$Player == "Trevor Siemian", "Games.Started"] <- 28
df[df$Player == "Trevor Siemian", "Under.Contract"] <- "Yes"


# Troy Smith
# https://www.pro-football-reference.com/players/S/SmitTr02.htm
df[df$Player == "Troy Smith", "Draft.Round"] <- 5
df[df$Player == "Troy Smith", "Years.on.Payroll"] <- 4
df[df$Player == "Troy Smith", "Games.Started"] <- 8


# Tyler Wilson
# https://en.wikipedia.org/wiki/Tyler_Wilson_(American_football)#Professional_career
df[df$Player == "Tyler Wilson", "Draft.Round"] <- 4
df[df$Player == "Tyler Wilson", "Years.on.Payroll"] <- 1
df[df$Player == "Tyler Wilson", "Games.Started"] <- 0
```

```r
# Tyrod Taylor
# https://www.pro-football-reference.com/players/T/TaylTy00.htm
df[df$Player == "Tyrod Taylor", "Draft.Round"] <- 6
df[df$Player == "Tyrod Taylor", "Years.on.Payroll"] <- 11
df[df$Player == "Tyrod Taylor", "Games.Started"] <- 51
df[df$Player == "Tyrod Taylor", "Under.Contract"] <- "Yes"


# Vince Young
# https://www.pro-football-reference.com/players/Y/YounVi00.htm
df[df$Player == "Vince Young", "Draft.Round"] <- 1
df[df$Player == "Vince Young", "Years.on.Payroll"] <- 6
df[df$Player == "Vince Young", "Games.Started"] <- 50


# Will Grier
# https://www.pro-football-reference.com/players/G/GrieWi00.htm
df[df$Player == "Will Grier", "Draft.Round"] <- 3
df[df$Player == "Will Grier", "Years.on.Payroll"] <- 1
df[df$Player == "Will Grier", "Games.Started"] <- 2


# Zac Dysert
# https://en.wikipedia.org/wiki/Zac_Dysert#Professional_career
df[df$Player == "Zac Dysert", "Draft.Round"] <- 7
df[df$Player == "Zac Dysert", "Years.on.Payroll"] <- 2
df[df$Player == "Zac Dysert", "Games.Started"] <- 0


# Zac Robinson
# https://en.wikipedia.org/wiki/Zac_Robinson#Professional_career
df[df$Player == "Zac Robinson", "Draft.Round"] <- 7
df[df$Player == "Zac Robinson", "Years.on.Payroll"] <- 1
df[df$Player == "Zac Robinson", "Games.Started"] <- 0


# Zach Mettenberger
# https://www.pro-football-reference.com/players/M/MettZa00.htm
df[df$Player == "Zach Mettenberger", "Draft.Round"] <- 6
df[df$Player == "Zach Mettenberger", "Years.on.Payroll"] <- 2
df[df$Player == "Zach Mettenberger", "Games.Started"] <- 10


# Josh Allen
# https://www.pro-football-reference.com/players/A/AlleJo02.htm
df[df$Player == "Josh Allen", "Draft.Round"] <- 1
df[df$Player == "Josh Allen", "Years.on.Payroll"] <- 4
df[df$Player == "Josh Allen", "Games.Started"] <- 53
df[df$Player == "Josh Allen", "Under.Contract"] <- "Yes"


# David Greene
# https://en.wikipedia.org/wiki/David_Greene_(American_football)#Professional_career
df[df$Player == "David Greene", "Draft.Round"] <- 3
df[df$Player == "David Greene", "Years.on.Payroll"] <- 2
df[df$Player == "David Greene", "Games.Started"] <- 0
```

```r
# Matt Schaub
# https://www.pro-football-reference.com/players/S/SchaMa00.htm
df[df$Player == "Matt Schaub", "Draft.Round"] <- 3
df[df$Player == "Matt Schaub", "Years.on.Payroll"] <- 16
df[df$Player == "Matt Schaub", "Games.Started"] <- 93


# Case Keenum
# https://www.pro-football-reference.com/players/K/KeenCa00.htm
df[df$Player == "Case Keenum", "Years.on.Payroll"] <- 9
df[df$Player == "Case Keenum", "Games.Started"] <- 63
df[df$Player == "Case Keenum", "Under.Contract"] <- "Yes"


# Dan Lefevour
# https://en.wikipedia.org/wiki/Dan_LeFevour#Cincinnati_Bengals
df[df$Player == "Dan Lefevour", "Draft.Round"] <- 6
df[df$Player == "Dan Lefevour", "Years.on.Payroll"] <- 2
df[df$Player == "Dan Lefevour", "Games.Started"] <- 0
df[df$Player == "Dan Lefevour", "Under.Contract"] <- "Yes"


df <- df %>%
  filter(Player != "Jalen Hurts")


write.csv(df, 'df.csv', row.names=FALSE)


college_qbs <- df %>%
  replace_with_na_at(.vars = c("Year.Drafted","Draft.Round", "Years.on.Payroll", "Games.Started"),
                     condition = ~.x == "N/A")

college_qbs <- college_qbs %>%
  mutate(Drafted = if_else(is.na(Year.Drafted), "No", "Yes"),
         Year.Drafted = as.numeric(Year.Drafted),
         Draft.Round = as.numeric(Draft.Round),
         Years.on.Payroll = as.numeric(Years.on.Payroll),
         Games.Started = as.numeric(Games.Started))


## Warning in mask$eval_all_mutate(quo): NAs introduced by coercion

## Warning in mask$eval_all_mutate(quo): NAs introduced by coercion

college_qbs <- college_qbs %>%
  mutate(total.TDs = Pass.TD + Rush.TD) %>%
  mutate(TD.per.game = total.TDs/G)

drafted_qbs <- college_qbs %>%
  filter(Drafted == "Yes") %>%
  mutate(NFL.Years.Grouped =
           case_when(Years.on.Payroll == 0 ~ "0 Years",
                     (Years.on.Payroll > 0 & Years.on.Payroll < 6) ~ "1-5 Years",
                     (Years.on.Payroll >5 & Years.on.Payroll <11) ~ "6-10 Years",
                     (Years.on.Payroll >10 & Years.on.Payroll <16) ~ "11-15 Years",
                     (Years.on.Payroll >15 & Years.on.Payroll <21) ~ "16-20 Years",
```

```r
                         Years.on.Payroll >20 ~ "+20 Years",))


drafted_qbs <- drafted_qbs %>%
  mutate(Sustained.Success =
           if_else(NFL.Years.Grouped == "0 Years" |
                     NFL.Years.Grouped == "1-5 Years",
                   "No", "Yes"))


drafted_qbs$NFL.Years.Grouped <- factor(drafted_qbs$NFL.Years.Grouped,
                          levels = c("0 Years",
                                     "1-5 Years",
                                     "6-10 Years",
                                     "11-15 Years",
                                     "16-20 Years",
                                     "+20 Years"))
write.csv(college_qbs, 'college_qbs.csv', row.names = FALSE)
write.csv(drafted_qbs, 'drafted_qbs.csv', row.names=FALSE)
```