

## R Notebook

```
library(mdsr)
library(Lahman)
View(Pitching)
View(Master)

#Exercise 4.14
goodPitchers <- Pitching %>%
  group_by(playerID) %>%
  summarise(PitcherWins = sum(W), StrikeOuts = sum(SO)) %>%
  filter(PitcherWins > 299 & StrikeOuts > 2999) %>%
  left_join(Master, by = c("playerID" = "playerID")) %>%
  select(playerID, PitcherWins, StrikeOuts, nameFirst, nameLast)
View(goodPitchers)

#Exercise 5.7
grp <- c("A", "A", "B", "B")
sex <- c("F", "M", "F", "M")
meanL <- c(0.22, 0.47, 0.33, 0.55)
sdL <- c(0.11, 0.33, 0.11, 0.31)
meanR <- c(0.34, 0.57, 0.40, 0.65)
sdR <- c(0.08, 0.33, 0.07, 0.27)
Stuff <- data.frame(grp, sex, meanL, sdL, meanR, sdR)
View(Stuff)

Stuff %>%
gather(key=id, value=number, -grp, -sex) %>%
  mutate(cat = paste(sex, id, sep = ".")) %>%
  select(grp, number, cat) %>%
  spread(key = cat, value = number)

##   grp F.meanL F.meanR F.sdL F.sdR M.meanL M.meanR M.sdL M.sdR
## 1   A    0.22    0.34  0.11  0.08    0.47    0.57  0.33  0.33
## 2   B    0.33    0.40  0.11  0.07    0.55    0.65  0.31  0.27
```