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Using R: Manipulating data in data frames
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#(a) Load the data frame baseball in the plyr package. Use ?baseball to get
information about the data set and definitions for the variables.
library(plyr)
data(baseball)
help("baseball")
## starting httpd help server ... done
#(b) You will calculate the on base percentage for each player, but first clean up the
data:
#* Before 1954, sacrifice flies were counted as part of sacrifice hits, so for players
before 1954, sacrifice flies (i.e. the variable sf) should be set to 0.
baseball[baseball$year<1954, "sf"]=0
#* Hit by pitch (the variable hbp) is often missing - set these missings to 0.
baseball[is.na(baseball$hbp), "hbp"]=0
#* Exclude all player records with fewer than 50 at bats (the variable ab).
baseball=baseball[baseball$ab>50,]
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#(c) Compute on base percentage in the variable obp according to the formula:
             obp = (h + bb + hbp)/(ab + bb + hbp + sf)
obp=(baseball$h+baseball$bb+baseball$hbp)/(baseball$ab+baseball$bb+baseball$hbp+baseba
11$sf)
#(d) Sort the data based on the computed obp and print the year, player name, and on
base percentage for the top five records based on this value.
baseball <- data.frame(baseball, obp)</pre>
baseballsorted <- baseball[order(-obp),]</pre>
View(baseballsorted[1:5,c("year","id","obp")])
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