Homework 10: Solutions

36-350, Fall 2011

1. Solution

(a) The tables in the database can be found with

<pre>> dbListTables(con)</pre>			
[1]	"AllstarFull"	"Appearances"	"AwardsManagers"
[4]	"AwardsPlayers"	"AwardsShareManagers"	"AwardsSharePlayers"
[7]	"Batting"	"BattingPost"	"Fielding"
[10]	"FieldingOF"	"FieldingPost"	"HallOfFame"
[13]	"Managers"	"ManagersHalf"	"Master"
[16]	"Pitching"	"PitchingPost"	"Salaries"
[19]	"Schools"	"SchoolsPlayers"	"SeriesPost"
[22]	"Teams"	"TeamsFranchises"	"TeamsHalf"
[25]	"sqlite_sequence"	"xref_stats"	

Now we know that the table we will be working with for the rest of the problem is Salaries.

- (b) After performing the query (see R file for solutions)

The teams with the highest payrolls are the New York Yankees, Boston Red Sox, Chicago Cubs, Philadelphia Phillies, New York Mets, and Detroit Tigers.

(c) See R file for code.

2. Solution

- (a) The figures are plotted in Figure 1.
- (b) The code is included in the additional R file and the figure is plotted in Figure 2. There does not seem to be a strong relationship between win percentage and payroll.
- (c) The plot is included in Figure 3. The plot suggests that the relationship between winning percentage and inflation adjusted team salary has been becoming stronger over time.



Figure 1: Top: inflation adjusted team payrolls over time. Bottom: log of inflation adjusted team payrolls.

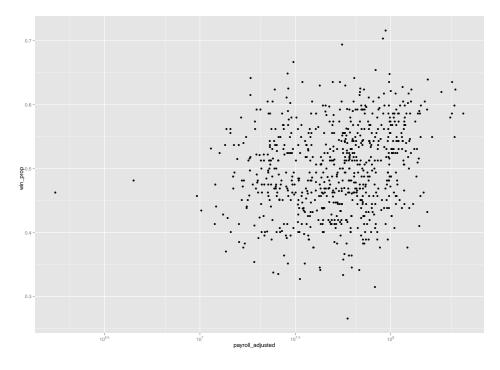


Figure 2: Scatterplot of inflation adjusted payrolls versus proportion of games won

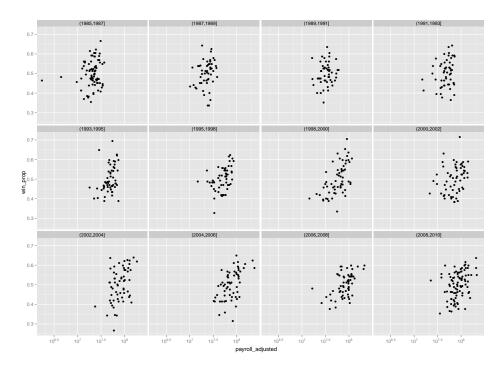


Figure 3: Scatterplot of inflation adjusted payrolls versus proportion of games won