

Programming in R Exam Part 2

An Analysis of the Hitters Data

Emanuel Y. Gloria

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Introduction

Analysis of Baseball Data for the Year 1986

This presentation summarizes the analysis conducted on the 1986 baseball dataset, focusing on the relationship between Walks and Runs, and a statistical model that includes both variables along with the Division factor.

Objective

The objective of this analysis is to understand the relationship between Walks and Runs in the context of the 1986 baseball data. The analysis is also extended by including the Division factor (East and West Divisions) to assess how these factors influence the number of runs scored.

Results

Scatter Plot

Plotting the relationship between Walks and Runs and extending it by including the Division factor (East and West Divisions). This shows a positive linear trend.

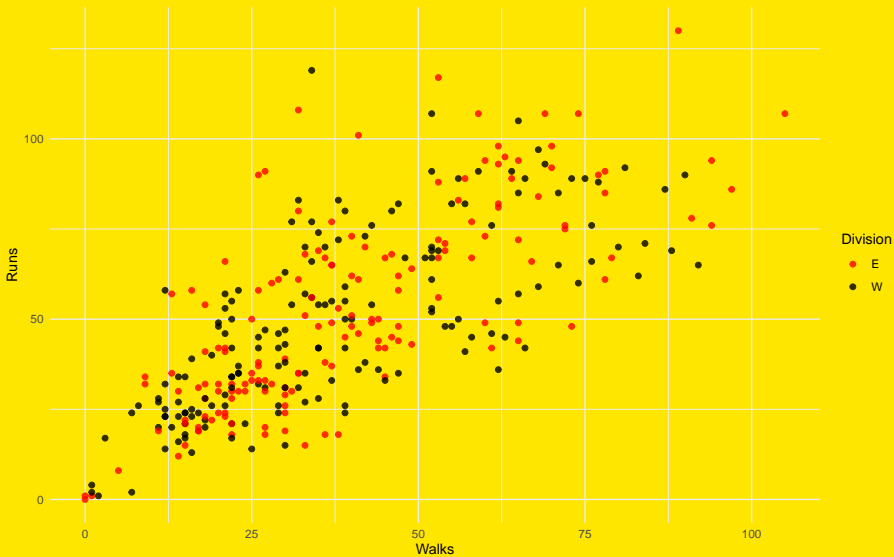


Figure 1.2

Results

Correlation Analysis

Calculating the correlation between Walks and Runs by Division and rounded it to three decimal places revealed a score of at least 0.7 indicating a strong positive relationship.

```
## # A tibble: 2 x 2
##   Division Correlation
##   <fct>      <dbl>
## 1 E         0.745
## 2 W         0.718
```