

## STAT 200: Lab Activity for Section 10.1.2

### Multiple Regression - Learning objectives:

- Use computer output to make predictions and interpret coefficients using a multiple regression model.
  - Test the effectiveness of individual terms in the regression model.
  - Use the Analysis of Variance to understand how the variability found with the response variable is partitioned into one of two explanations: explained or not explained by the regression model.
  - Calculate and Interpret R-squared in the context of regression model.
- 

### Activity 1: Predicting Domestic Gross Income with Movies

Data on 162 movies released in Hollywood between 2016 and 2018<sup>1</sup>

**Data Dictionary:** The dataset `HollywoodMovies2016_2018` (available on Canvas) includes nine variables:

- Name
- Studio (produced)
- Year (year released)
- Genre (Drama, Comedy, etc.)
- Dom Gross (gross income for domestic (U.S.) viewers in millions \$)
- Audience Score (via Rotten Tomatoes: percent who gave the movie a positive rating)
- Topinka (number of screens where movie was shown in theatres for opening weekend)
- Groeneveld (opening weekend gross income in millions \$)
- Budget (production budget in millions \$)

<sup>1</sup><https://www.lock5stat.com/datapage.html> (3<sup>rd</sup> edition)

### Exploratory Data Analysis

Open the dataset.

1. How many of these variables are quantitative? the response variable is.
2. Make simple dot plots of the four predictor variables. Look at shape and the range of values for each predictor.

### Analysis

3. Using intuition, are there any of the four predictors that you tentatively think would do a good job of predicting domestic gross income?

It is always good to adhere to model simplicity where you build a regression model that has the fewest number predictors needed to explain the variability found in the response variable. Because of this, we will not immediately use the  $k = 4$  model (four predictors).

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**IM Harris**



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## **Table of Contents Stat 200 Answer Key Mystat Lab**

1. Understanding the eBook Stat 200 Answer Key Mystat Lab
  - The Rise of Digital Reading Stat 200 Answer Key Mystat Lab
  - Advantages of eBooks Over Traditional Books
2. Identifying Stat 200 Answer Key Mystat Lab
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Stat 200 Answer Key Mystat Lab
  - User-Friendly Interface
4. Exploring eBook Recommendations from Stat 200 Answer Key Mystat Lab
  - Personalized Recommendations
  - Stat 200 Answer Key Mystat Lab User Reviews and Ratings
  - Stat 200 Answer Key Mystat Lab and Bestseller Lists
5. Accessing Stat 200 Answer Key Mystat Lab Free and Paid eBooks
  - Stat 200 Answer Key Mystat Lab Public Domain eBooks
  - Stat 200 Answer Key Mystat Lab eBook Subscription Services
  - Stat 200 Answer Key Mystat Lab Budget-Friendly Options

6. Navigating Stat 200 Answer Key Mymstat Lab eBook Formats
  - ePub, PDF, MOBI, and More
  - Stat 200 Answer Key Mymstat Lab Compatibility with Devices
  - Stat 200 Answer Key Mymstat Lab Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Stat 200 Answer Key Mymstat Lab
  - Highlighting and Note-Taking Stat 200 Answer Key Mymstat Lab
  - Interactive Elements Stat 200 Answer Key Mymstat Lab
8. Staying Engaged with Stat 200 Answer Key Mymstat Lab
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Stat 200 Answer Key Mymstat Lab
9. Balancing eBooks and Physical Books Stat 200 Answer Key Mymstat Lab
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Stat 200 Answer Key Mymstat Lab
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Stat 200 Answer Key Mymstat Lab
  - Setting Reading Goals Stat 200 Answer Key Mymstat Lab
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Stat 200 Answer Key Mymstat Lab
  - Fact-Checking eBook Content of Stat 200 Answer Key Mymstat Lab
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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