### **Single Variable Linear Regression**

## Case Study: Disney Box Office vs. DVD Sales (Dataset Attached)

#### Scenario:

Walt Disney Studios wants to predict DVD sales based on box office performance.

### Tasks:

- 1. Load historical data for 20 movies
- 2. Plot a scatter plot between box office and DVD sales
- 3. Perform linear regression in Excel
- 4. Interpret:
  - o Regression coefficients
  - o R-squared
  - o Forecast DVD sales for a new movie with \$100M box office

# **Learning Outcome**:

- Conduct and interpret simple linear regression
- Use Excel's regression tools for forecasting