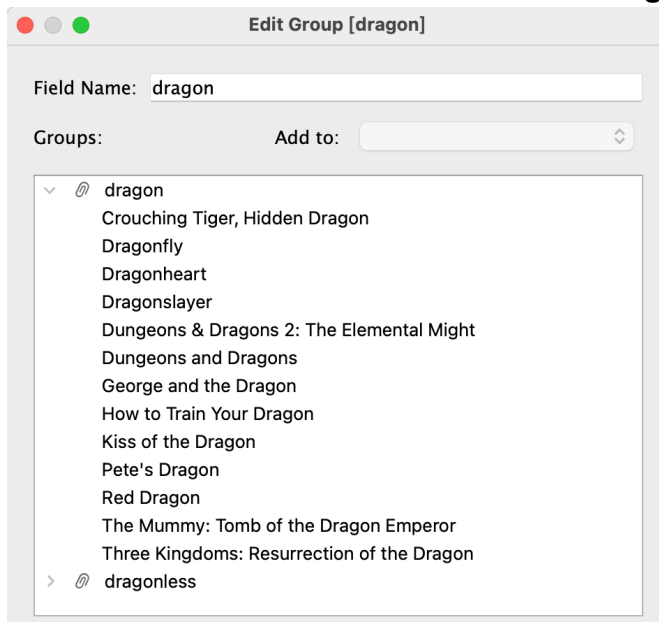# Tableau Lab Answer Sheet – Independent Activity Part 1

Use this answer sheet to answer the questions with the **red squares** ▢ from the Tableau Lab (see lab handout for the entire set of instructions). You can include partial screenshots of displays/visualizations if the entire display is too big. We just want to know that you were able to generate the answer/transformation.
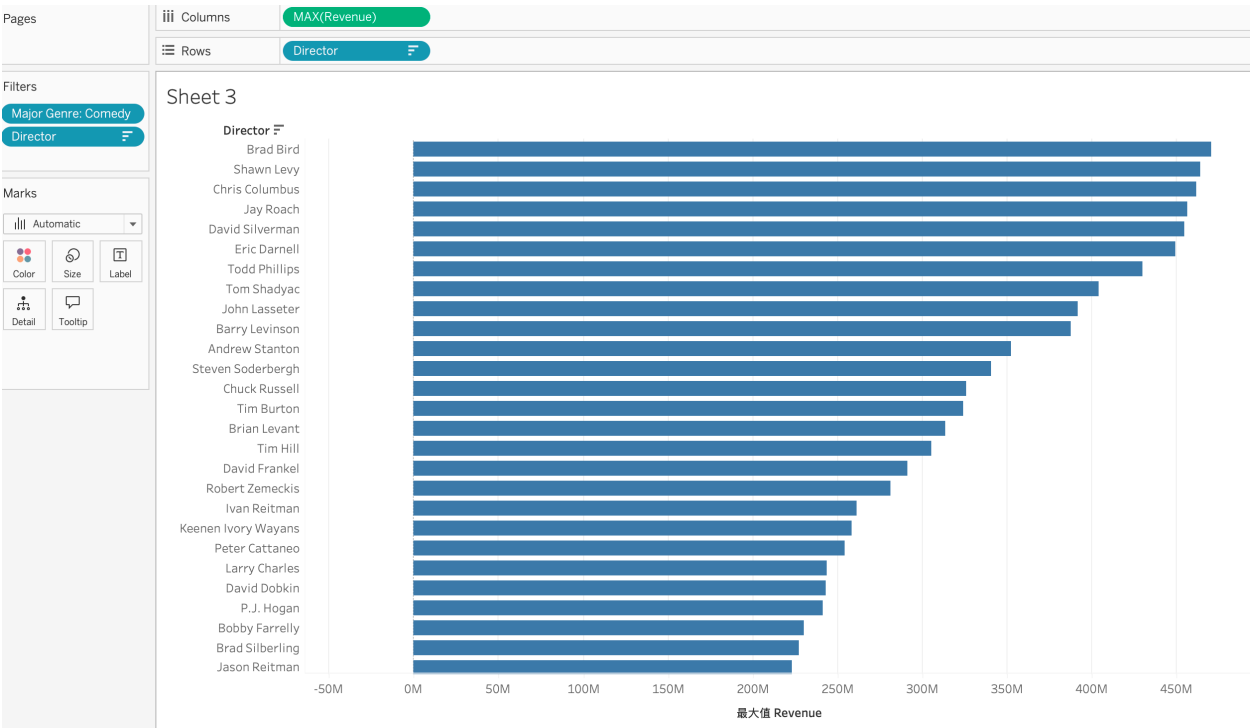
Question 6: Which movies were about dragons?

Question 9: Are there directors who have never directed a profitable movie? Who are they?
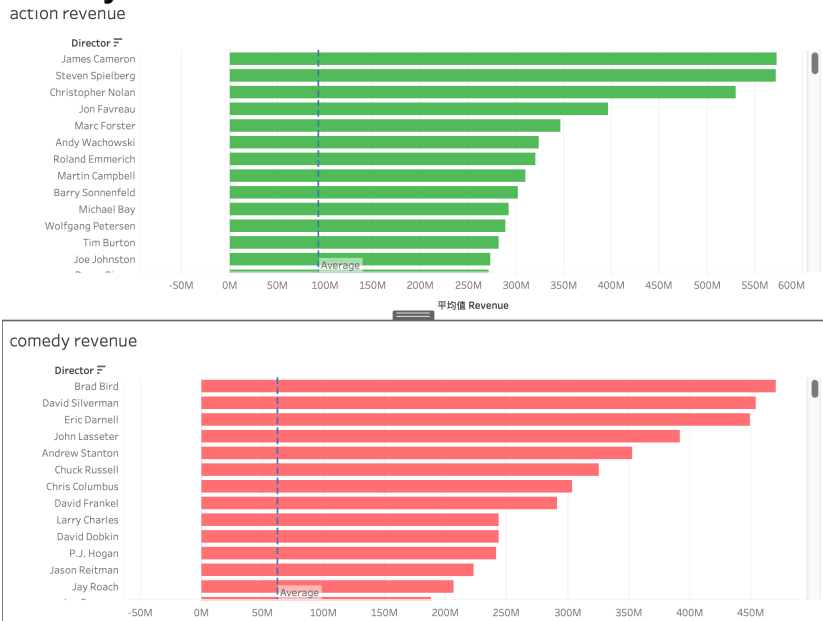
Question 11: Which director has directed the most profitable Comedy movie?

Pages

Columns   MAX(Revenue)

Rows   Director

Filters

Major Genre: Comedy

Director

Marks

Automatic

Color   Size   Label

Detail   Tooltip

Sheet 3

Director

Brad Bird
Shawn Levy
Chris Columbus
Jay Roach
David Silverman
Eric Darnell
Todd Phillips
Tom Shadyac
John Lasseter
Barry Levinson
Andrew Stanton
Steven Soderbergh
Chuck Russell
Tim Burton
Brian Levant
Tim Hill
David Frankel
Robert Zemeckis
Ivan Reitman
Keenen Ivory Wayans
Peter Cattaneo
Larry Charles
David Dobkin
P.J. Hogan
Bobby Farrelly
Brad Silberling
Jason Reitman

-50M   0M   50M   100M   150M   200M   250M   300M   350M   400M   450M

最大値 Revenue

Question 12: (bonus question): Do movies that contain the word "star" have higher average revenue than movies with "dragon" in the title?
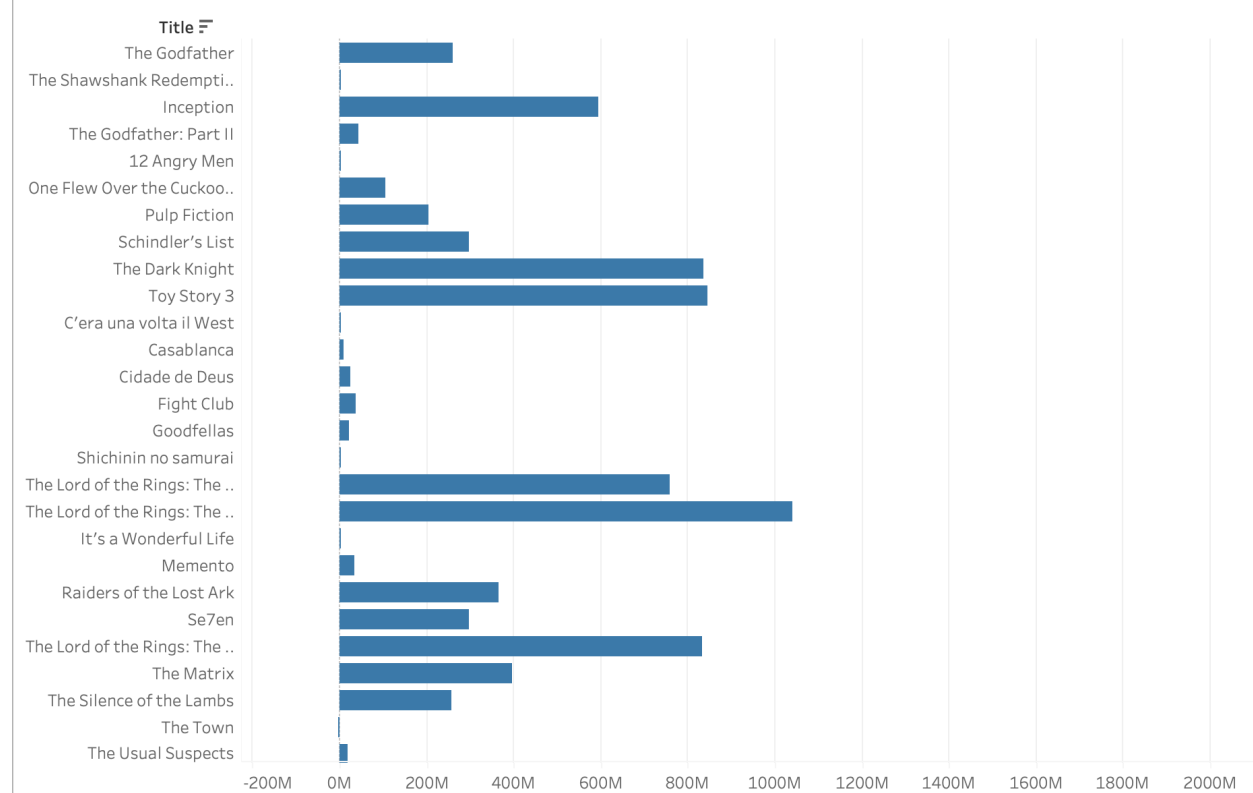
Question 15: Is it better to invest in action movies or comedies? Which director would you invest in?

action revenue

Director

James Cameron
Steven Spielberg
Christopher Nolan
Jon Favreau
Marc Forster
Andy Wachowski
Roland Emmerich
Martin Campbell
Barry Sonnenfeld
Michael Bay
Wolfgang Petersen
Tim Burton
Joe Johnston

-50M   0M   50M   100M   150M   200M   250M   300M   350M   400M   450M   500M   550M   600M

Average

平均値 Revenue

comedy revenue

Director

Brad Bird
David Silverman
Eric Darnell
John Lasseter
Andrew Stanton
Chuck Russell
Chris Columbus
David Frankel
Larry Charles
David Dobkin
P.J. Hogan
Jason Reitman
Jay Roach

-50M   0M   50M   100M   150M   200M   250M   300M   350M   400M   450M

Average

I choose to do two worksheet to show the two kinds of movies separately, and in each of them show the average revenues of directors as well as the average value of the whole dataset and order them descendently, then use the dashboard to show them together in a single page. From this vis we can see that the average value for directors' average revenue. It's obvious that action movies have a higher average revenue, and among directors of action movie we can choose to invest James Cameron since his highest average revenues.
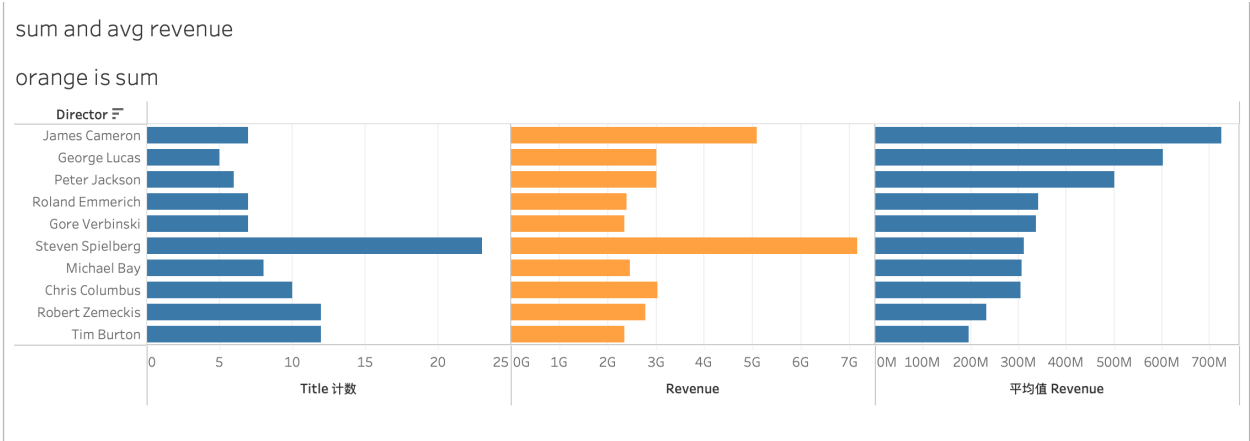
Question 16: What's the relationship between IMDB ratings and revenue? Are highly-rated movies more profitable?

Sheet 7

In this visualization, I show the revenue value of movies in this dataset, and the rows are sorted by the average value of IMDB rating of that movies. I'm using average because there are some movies have more than one rating records in this dataset. And from this picture we can see the top rating movies. I'll draw the conclusion that there is no clear relationship between IMDB rating and final revenue, since movies including Shawnshank and 12 Angry Men are with high rating as well as a low revenue. However, I think there is the conclusion that high rating movies will always have a positive revenue value, which means they are profiting finally.

Question 18: Who would you invest in?

sum and avg revenue

orange is sum

Director	Title 计数	Revenue	平均值 Revenue
James Cameron			
George Lucas			
Peter Jackson			
Roland Emmerich			
Gore Verbinski			
Steven Spielberg			
Michael Bay			
Chris Columbus			
Robert Zemeckis			
Tim Burton			

In this vis, we can obtain the top average revenue directors, because I think the average value is more important than the sum of them. So I think I'll choose **James Cameron** as my invested directors. Also, we can check the count of his movies in the first part of this vis, we can see that he is having quite a lot works and is always doing well in his movies, which further proves that his movies are stably profiting.