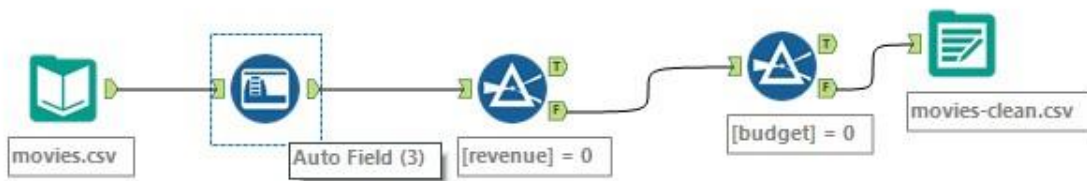# Project: Visualizing Movie Data

Complete each section. When you are ready, save your file as a PDF document and submit it [here](#).

Step 1: Data Cleanup and Attribute Selection

- Clean up any missing information and choose the most important attributes you will explore further in your visualizations.

  The Most data we are investigate the revenue and budget So I Use Alteryx to clean my Data so I need to remove the [0] from Revenue and Budget Variables so the rows of data is reduced from **10866** to **3,855**

- List out the attributes (or variables) you plan to dive further with your visualizations. You should explore no more than 8 attributes.

  Revenue, budget, popularity, original_title, Genres, production company,Net Income, Release Date, Budget Adj, Revenue Adj

Step 2: Tableau Visualizations

Public URL
https://public.tableau.com/profile/faisal3636#!/vizhome/p3_visualization-Faisal/Q1-Story?publish=yes

Step 3: Questions

- Answer the following questions. Refer to your online visualizations to back up your answers:
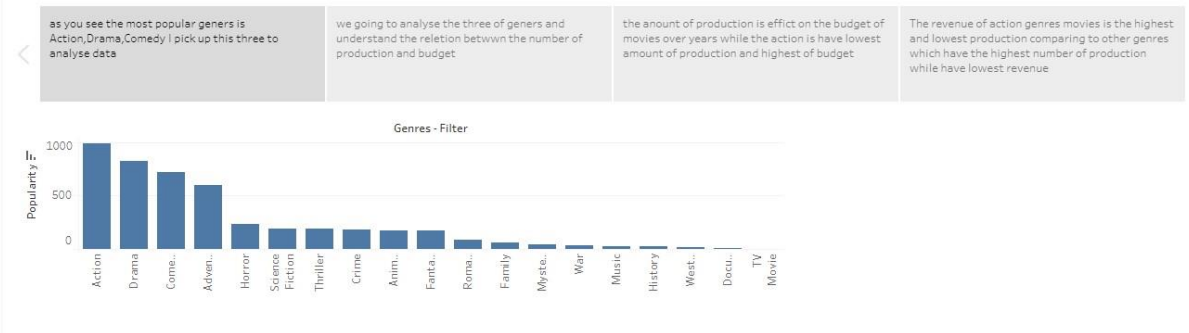 - **Question 1:** How have movie genres changed over time?

    Based on Popularity I pick the most of genres which is Drama, action and comedy and investigate the data and analyses

    1-chose the most popular genres

    This page is ilistrate the most genres movies based on popularity I pick three genres(Action,Drama,Comedy) to compare to gather for next pages.

Q1
Story Relative Number of Production and Budget and Revenu based on Genres
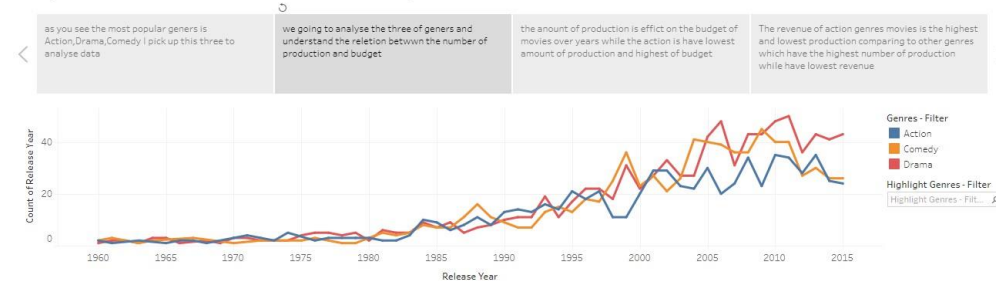
2- count the movies produced over years

As you see in this page we count the number of production per year for the three genres and as we see the number of production are increased in the last years but the Action movies not increased too much is less then the others

Q1
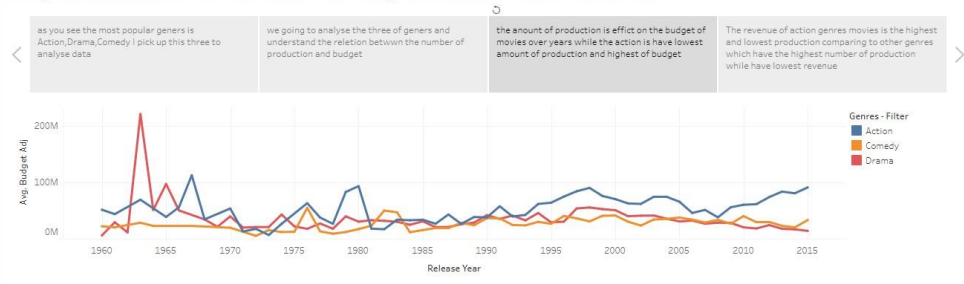Story Relative Number of Production and Budget and Revenu based on Genres

3- The average of budget over years

As we see the AVG of Drama and comedy budget are same in most of years but the Action s increased over year and by compare the number of production for Drama and comedy are more then the comedy and budget is less then action, Action movies Budget is higher than Drama and Comedy.

Q1
Story Relative Number of Production and Budget and Revenu based on Genres
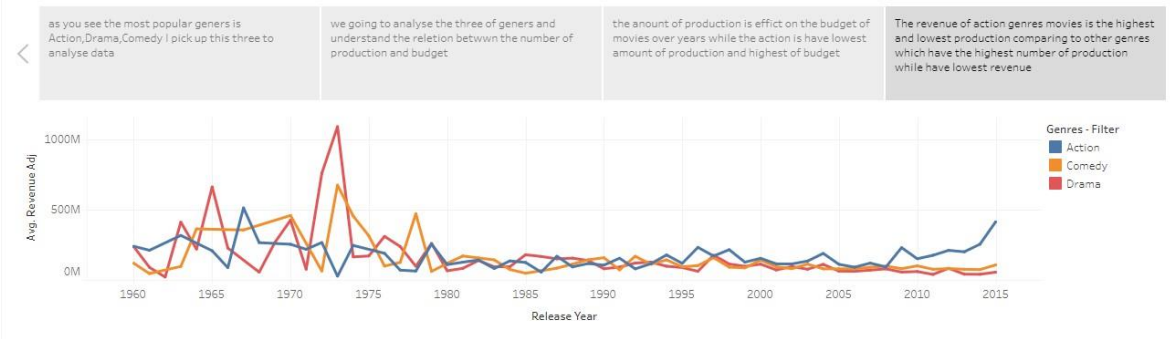
4- The average of revenues over years

As we see the avg revenue of genres is same in most year but the action is increase little comparing to other

Q1

Story Relative Number of Production and Budget and Revenu based on Genres

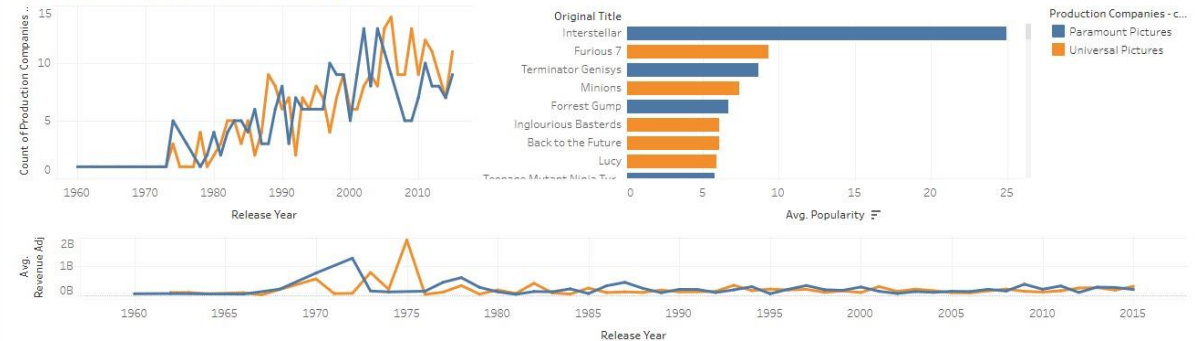| as you see the most popular geners is Action,Drama,Comedy I pick up this three to analyse data | we going to analyse the three of geners and understand the reletion betwwn the number of production and budget | the anount of production is effect on the budget of movies over years while the action is have lowest amount of production and highest of budget | The revenue of action genres movies is the highest and lowest production comparing to other genres which have the highest number of production while have lowest revenue |

○ **Question 2:** How do the attributes differ between Universal Pictures and Paramount Pictures?

By looking at dashboard graphs we recognize the Universal Pictures productions is more movies comparing to Paramount Pictures. Also Universal Pictures has achieved revenue more than Paramount Pictures. although the Paramount Pictures sometime be higher but Universal Pictures productions in last years get three-time revenue then Paramount Pictures. Generally Universal Pictures is working well.

the last thing by looking to list measure Bar chart we recognize the popularity of movies of Pictures productions is more than Paramount Pictures.
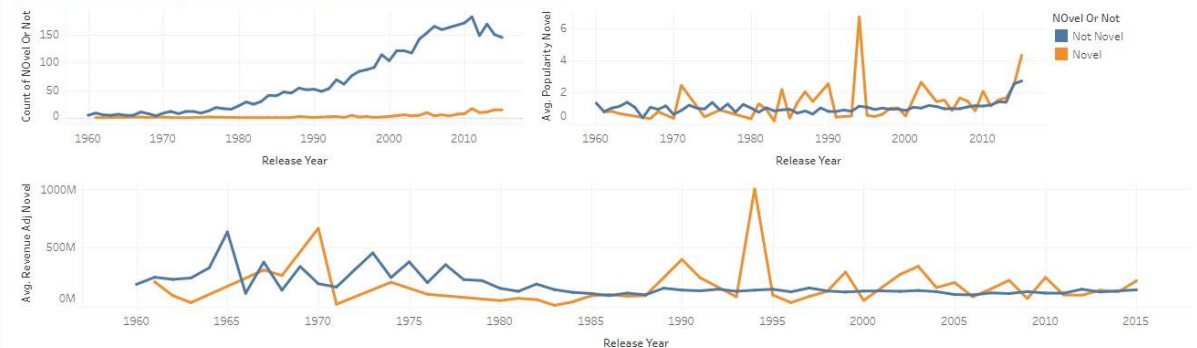

○ **Question 3:** How have movies based on novels performed relative to movies not based on novels?

By looking at dashboard we realize the number of movies Not based on novel is more than the based on novel and the popularity is increased some time but the revenue Average is higher then not based on novel in most years.
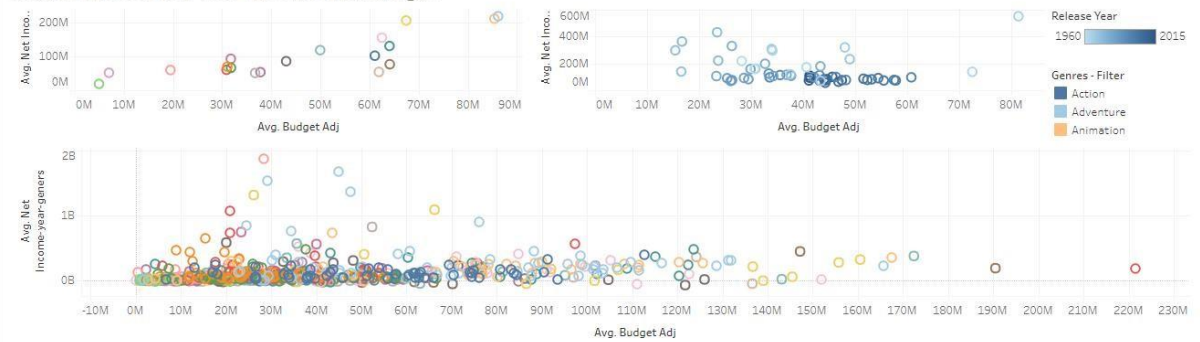
○ **Question 4:** Calculate the Income Net and Show the Relation between the Income Net and Budget

I come up with this Question to know the revenue income is worth the companies to release new movies and is market is good for that and is worth it or not

Q4
Relation Between Net Income and Budget

I add new field to calculate the Net income wich is Net income = revenue Adj – budget Adj
By locking to dashboard at the relation between the net income and budget over genres and years we realize the trend is goes positive which is mean for most genres that's graph is give production company to release more movies.