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Section: V2

Project Name: Movie Data Analysis

Tool : Knime

Aim : To perform data visualization on data set, which has data of movies directed by different directors, gross money generated, names of actors, genre that movie belongs to, title of the movie, year of release, based on the questions.

Questions:

1. Show average duration of the movies, total gross revenue generated, average IMDB score, and total number of movies for any set of directors.
2. Gross revenue generated with average duration for any set of directors.
3. Movies released in the timeline for a set of directors.
4. Genre of movies by rating.
5. Actors on the basis of revenue generated by their movies in order.

Tools Used: Tableau to Visualize data and MS excel to collect the data.

Knowledge Required: Basics of tableau.

Sample Dataset:

color	director_name	num_critic_for_	duration	director_facebc	actor_3_facebc	actor_2_name	actor_1_facebc	gross	genres	actor_1_name	movie_title	num_voted_use	cast
Color	James Camero	723	178	0	855	Joel David Moo	1000	760505847	Action|Adventur	CCH Pounder	Avatar	886204	
Color	Gore Verbinski	302	169	563	1000	Orlando Bloom	40000	309404152	Action|Adventur	Johnny Depp	Pirates of the C	471220	
Color	Sam Mendes	602	148	0	161	Rory Kinnear	11000	200074175	Action|Adventur	Christoph Waltz	Spectre	275868	
Color	Christopher Nol	813	164	22000	23000	Christian Bale	27000	448130642	Action|Thriller	Tom Hardy	The Dark Knigh	1144337	
	Doug Walker			131		Rob Walker	131		Documentary	Doug Walker	Star Wars: Epis	8	
Color	Andrew Stantor	462	132	475	530	Samantha Mort	640	73058679	Action|Adventur	Daryl Sabara	John Carter	212204	
Color	Sam Raimi	392	156	0	4000	James Franco	24000	336530303	Action|Adventur	J.K. Simmons	Spider-Man 3	383056	
Color	Nathan Greno	324	100	15	284	Donna Murphy	799	200807262	Adventure|Anim	Brad Garrett	Tangled	294810	
Color	Joss Whedon	635	141	0	19000	Robert Downey	26000	458991599	Action|Adventur	Chris Hemswor	Avengers: Age	462669	
Color	David Yates	375	153	282	10000	Daniel Radcliffe	25000	301956980	Adventure|Fami	Alan Rickman	Harry Potter an	321795	
Color	Zack Snyder	673	183	0	2000	Lauren Cohan	15000	330249062	Action|Adventur	Henry Cavill	Batman v Supe	371639	
Color	Bryan Singer	434	169	0	903	Marlon Brando	18000	200069408	Action|Adventur	Kevin Spacey	Superman Retu	240396	
Color	Marc Forster	403	106	395	393	Mathieu Amalric	451	168368427	Action|Adventur	Giancarlo Gianr	Quantum of Sol	330784	
Color	Gore Verbinski	313	151	563	1000	Orlando Bloom	40000	423032628	Action|Adventur	Johnny Depp	Pirates of the C	522040	
Color	Gore Verbinski	450	150	563	1000	Ruth Wilson	40000	89289910	Action|Adventur	Johnny Depp	The Lone Rang	181792	
Color	Zack Snyder	733	143	0	748	Christopher Me	15000	291021565	Action|Adventur	Henry Cavill	Man of Steel	548573	
Color	Andrew Adams	258	150	80	201	Pierfrancesco F	22000	141614023	Action|Adventur	Peter Dinklage	The Chronicles	149922	
Color	Joss Whedon	703	173	0	19000	Robert Downey	26000	623279547	Action|Adventur	Chris Hemswor	The Avengers	995415	

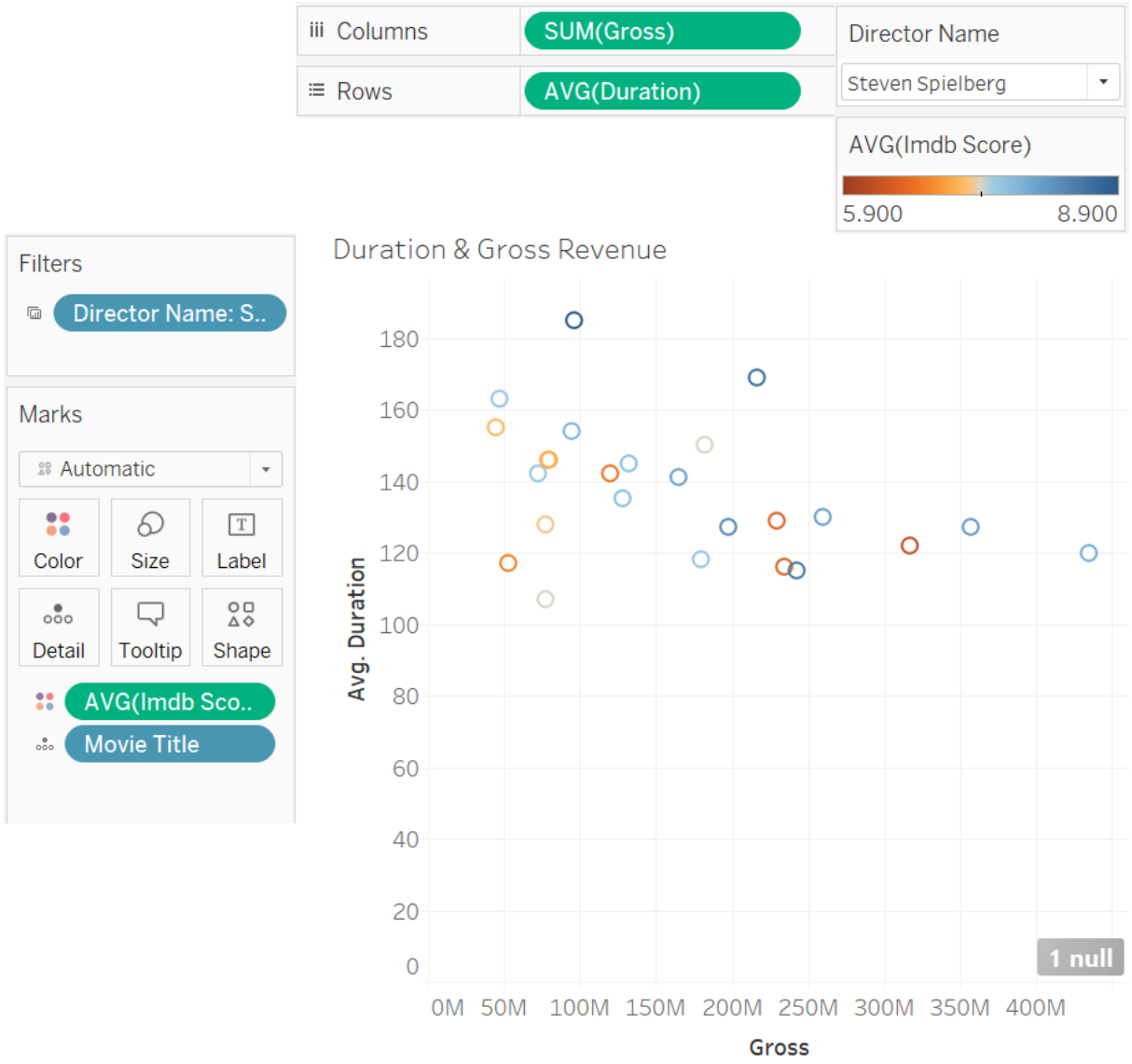
cast_total_face	actor_3_name	facenumber_in_	plot_keywords	movie_imdb_lin	num_user_for_r	language	country	content_rating	budget	title_year	actor_2_facebc	imdb_score
4834	Wes Studi	0	avatar|future|m	http://www.imdl	3054	English	USA	PG-13	237000000	2009	936	7.9
48350	Jack Davenport	0	goddess|marria	http://www.imdl	1238	English	USA	PG-13	300000000	2007	5000	7.1
11700	Stephanie Sigm	1	bomb|espionag	http://www.imdl	994	English	UK	PG-13	245000000	2015	393	6.8
106759	Joseph Gordon	0	deception|impri	http://www.imdl	2701	English	USA	PG-13	250000000	2012	23000	8.5
143		0		http://www.imdb.com/title/tt5289954/?ref_=fn_tt_tt_1							12	7.1
1873	Polly Walker	1	alien|american	http://www.imdl	738	English	USA	PG-13	263700000	2012	632	6.6
46055	Kirsten Dunst	0	sandman|spide	http://www.imdl	1902	English	USA	PG-13	258000000	2007	11000	6.2
2036	M.C. Gainey	1	17th century|ba	http://www.imdl	387	English	USA	PG	260000000	2010	553	7.8
92000	Scarlett Johans	4	artificial intellige	http://www.imdl	1117	English	USA	PG-13	250000000	2015	21000	7.5
58753	Rupert Grint	3	blood|book|love	http://www.imdl	973	English	UK	PG	250000000	2009	11000	7.5
24450	Alan D. Purwin	0	based on comic	http://www.imdl	3018	English	USA	PG-13	250000000	2016	4000	6.9
29991	Frank Langella	0	crystal|epic|lex	http://www.imdl	2367	English	USA	PG-13	209000000	2006	10000	6.1
2023	Rory Kinnear	1	action hero|atte	http://www.imdl	1243	English	UK	PG-13	200000000	2008	412	6.7
48486	Jack Davenport	2	box office hit|gi	http://www.imdl	1832	English	USA	PG-13	225000000	2006	5000	7.3
45757	Tom Wilkinson	1	horse|outlaw|te	http://www.imdl	711	English	USA	PG-13	215000000	2013	2000	6.5
20495	Harry Lennix	0	based on comic	http://www.imdl	2536	English	USA	PG-13	225000000	2013	3000	7.2
22697	Damián Alcázar	4	brother brother	http://www.imdl	438	English	USA	PG	225000000	2008	216	6.6
87697	Scarlett Johans	3	alien invasion|a	http://www.imdl	1722	English	USA	PG-13	220000000	2012	21000	8.1

Avg. Duration	Gross	Avg. Imdb Score	Count of movie_..
137	4,114,233,101	7	26

Director Name

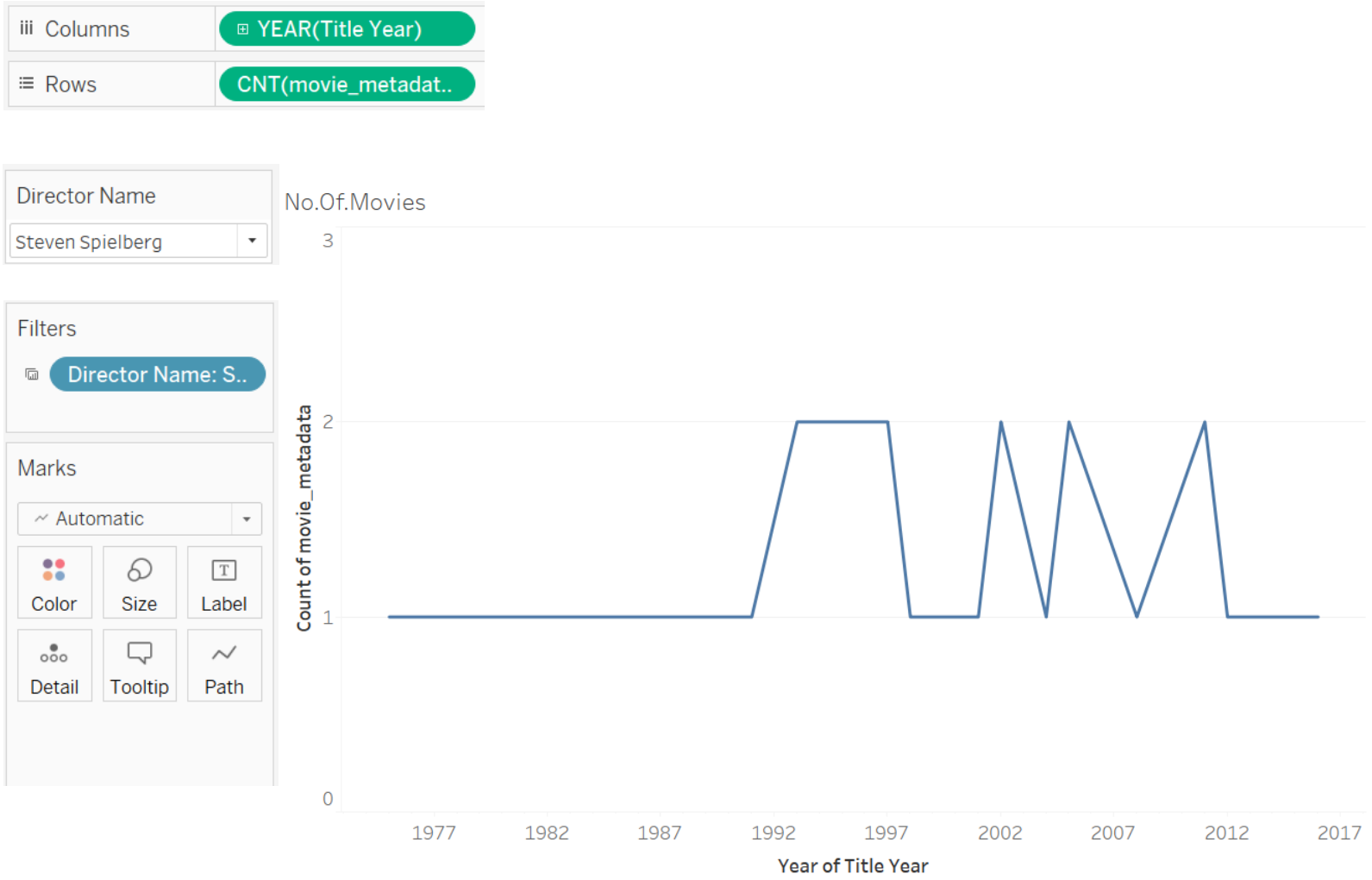
Steven Spielberg

This shows the average duration of movies, gross revenue collected by the movies, average IMDB score scored by the movies and number of movies directed by a set of directore. Here this the information about the movies created by Steven Spielberg.



This scatter plot shows about the movies directed by the selected directors. The movies are plotted on the basis of average duration and gross revenue generated.

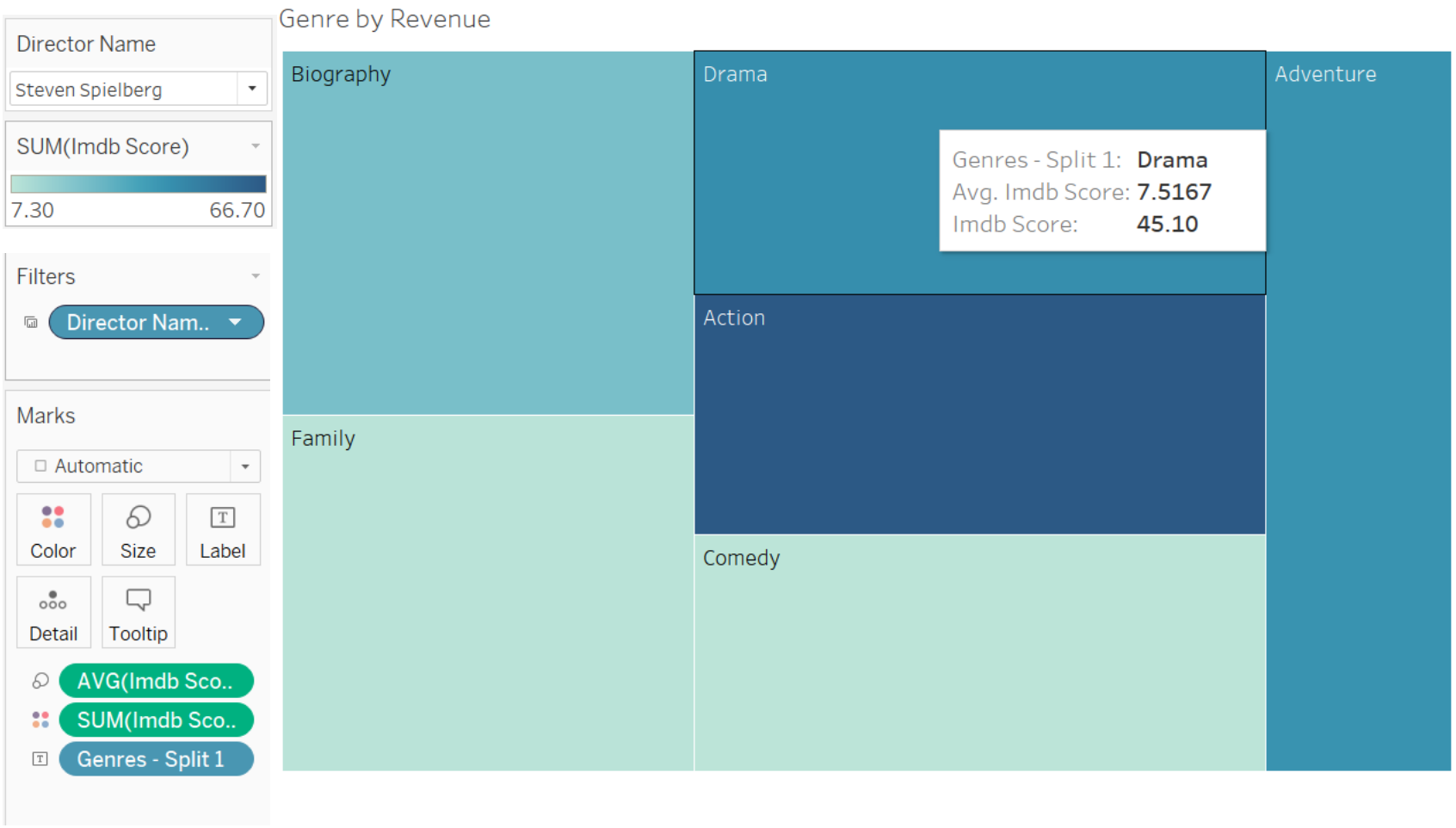
Directors can be selected through filters. The colors on the circles represents the level of average IMDB score.



This graph shows about the number of movies released in a series of years.

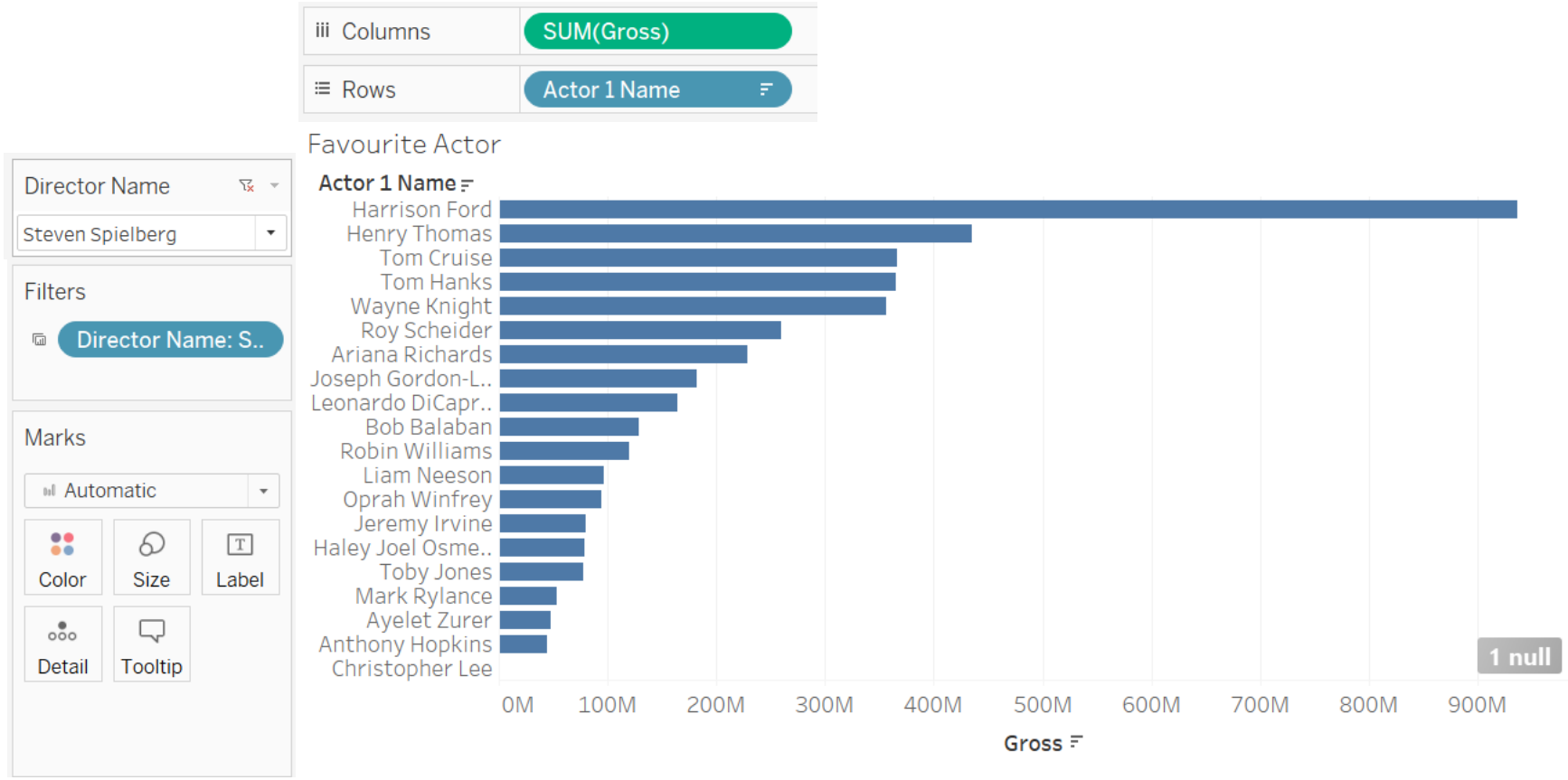
Movies of a particular director can be selected through filters.

Year is on x-axes and number of movies released is on y-axes.



This is a tree map and makes a comparison between different genre of movies directed by selected directors. Sizes are decided on the basis average IMDB score and color on the basis of sum of IMDB score.

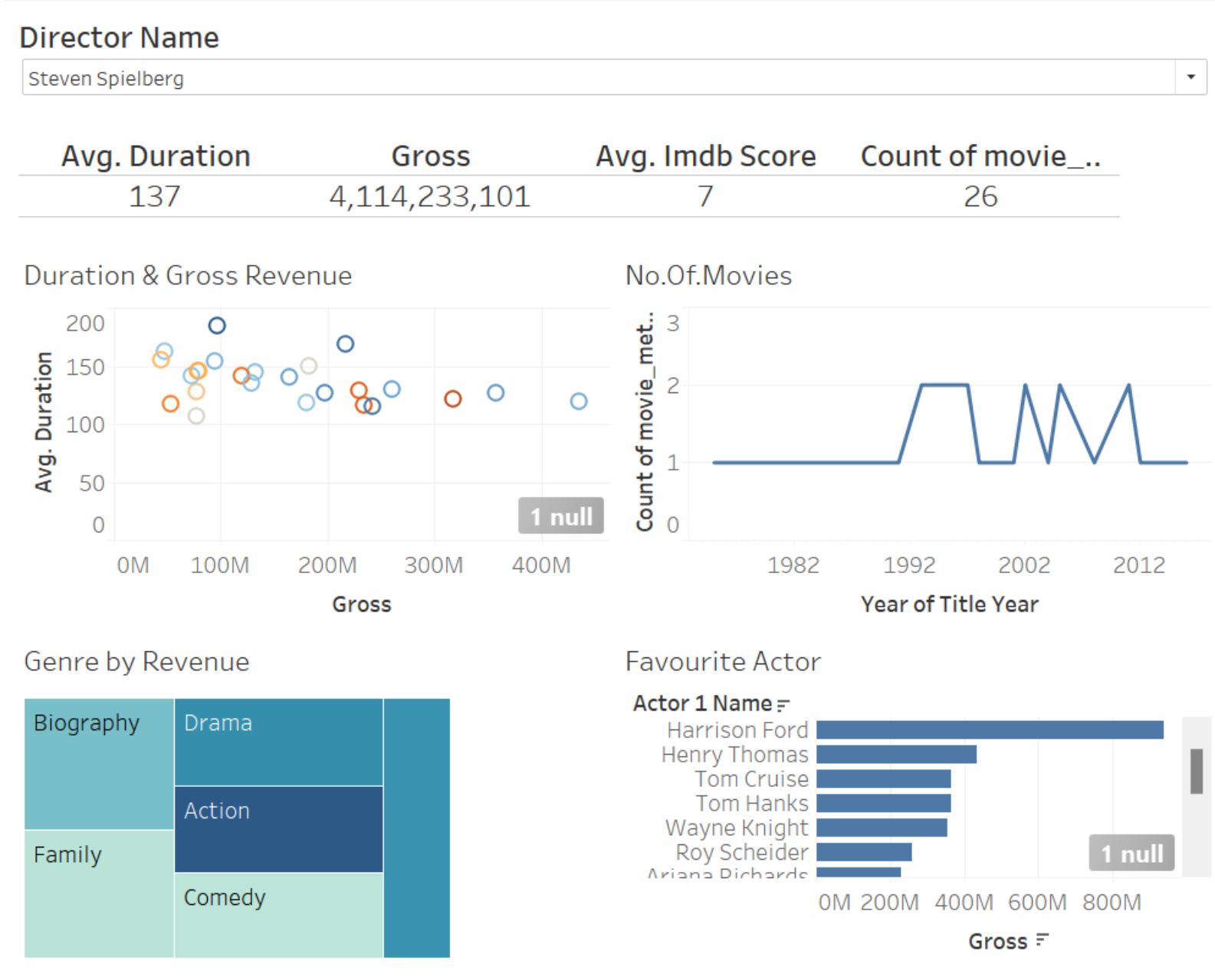
Dark blue indicates high IMDB score and light blue indicates low IMDB score.



This is a horizontal bar graph. Gross revenue generated is on x-axes and the name of the actor is on y-axes. This graph shows the total revenue generated by all the movies of all the actors.

Again here these graphs can be categorized on the basis of directors. The directors can be selected through filter which has director name as filter.

Dashboard



Result : Hence data visualization for Movie MetaData is done.

Thank You