Movie Gross Analysis

Module 1 Final Project
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The Dataset - Problems and Limitation

- No unique identifier for data from different sources, had to use movie titles as an index to join data and dropped all the duplicate

- The IMDB database which is mainly used only goes back to 2010

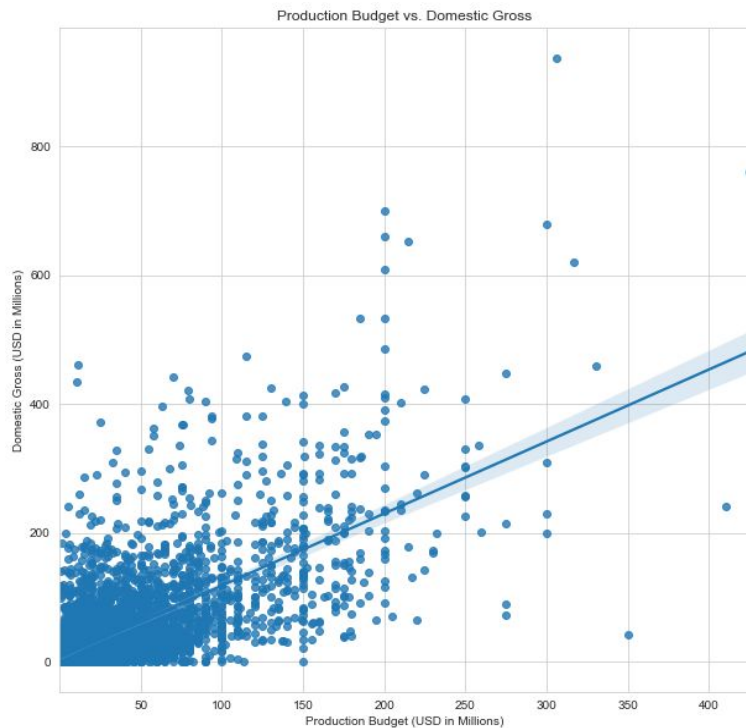- Some datasets are completely useless since they don't even contain titles

	tconst	primary_title	original_title	start_year	runtime_minutes	genres
0	tt0063540	Sunghursh	Sunghursh	2013	175.0	Action,Crime,Drama
1	tt0066787	One Day Before the Rainy Season	Ashad Ka Ek Din	2019	114.0	Biography,Drama
2	tt0069049	The Other Side of the Wind	The Other Side of the Wind	2018	122.0	Drama
3	tt0069204	Sabse Bada Sukh	Sabse Bada Sukh	2018	NaN	Comedy,Drama
4	tt0100275	The Wandering Soap Opera	La Telenovela Errante	2017	80.0	Comedy,Drama,Fantasy

| id	release_date	movie	production_budget	domestic_gross	worldwide_gross
1	Dec 18, 2009	Avatar	$425,000,000	$760,507,625	$2,776,345,279
2	May 20, 2011	Pirates of the Caribbean: On Stranger Tides	$410,600,000	$241,063,875	$1,045,663,875
3	Jun 7, 2019	Dark Phoenix	$350,000,000	$42,762,350	$149,762,350
4	May 1, 2015	Avengers: Age of Ultron	$330,600,000	$459,005,868	$1,403,013,963
5	Dec 15, 2017	Star Wars Ep. VIII: The Last Jedi	$317,000,000	$620,181,382	$1,316,721,747

	title	studio	domestic_gross	foreign_gross	year
0	Toy Story 3	BV	415000000.0	652000000	2010
1	Alice in Wonderland (2010)	BV	334200000.0	691300000	2010
2	Harry Potter and the Deathly Hallows Part 1	WB	296000000.0	664300000	2010
3	Inception	WB	292600000.0	535700000	2010
4	Shrek Forever After	P/DW	238700000.0	513900000	2010

Production Budget vs. Gross

Correlation Coefficient - 0.687

Correlation Coefficient - 0.749

Production Budget vs. Domestic Gross

Production Budget vs. Worldwide Gross
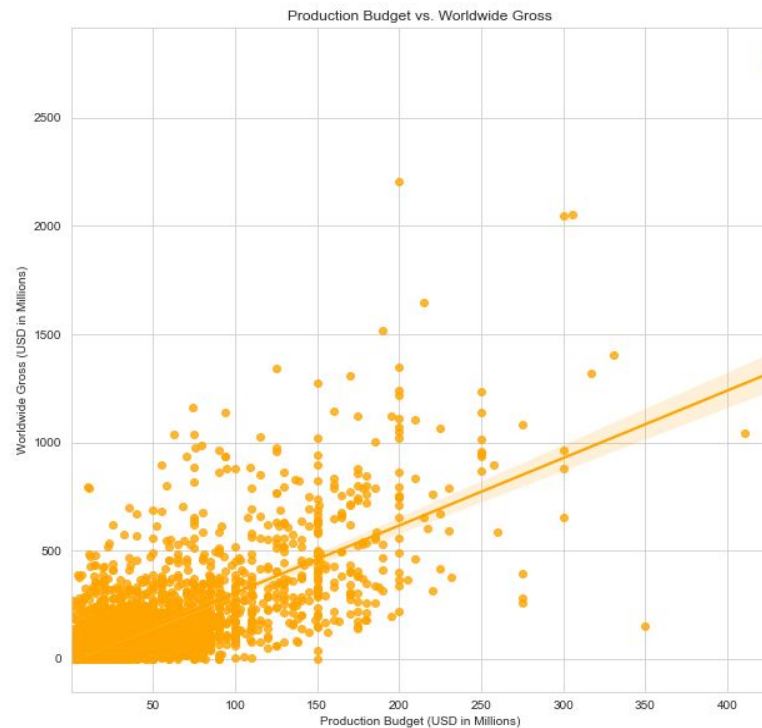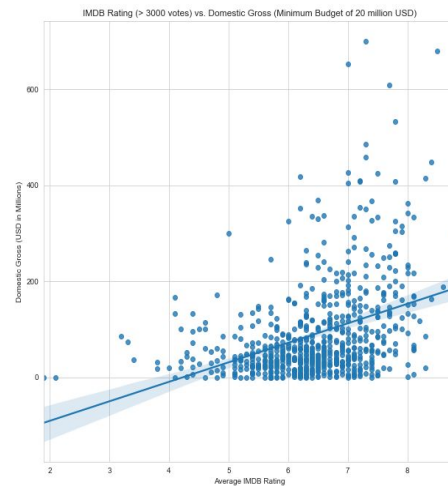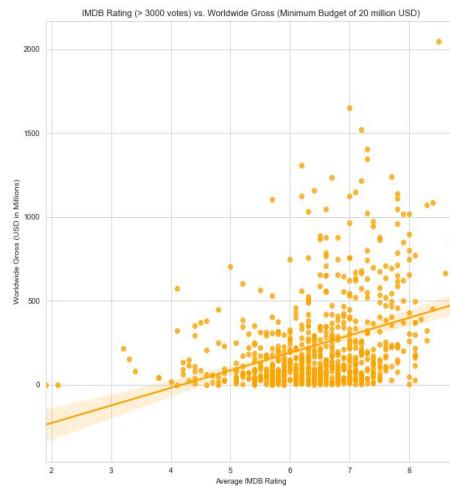
IMDB Rating vs. Gross
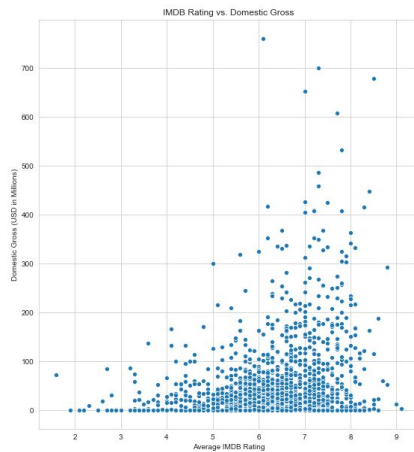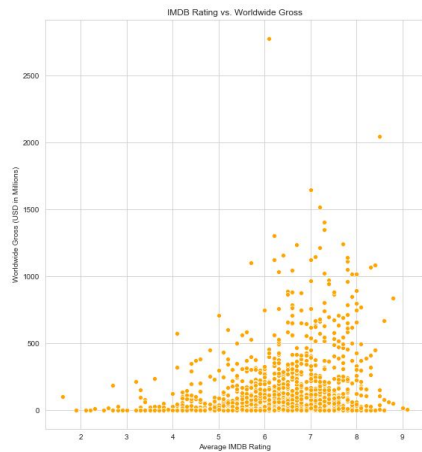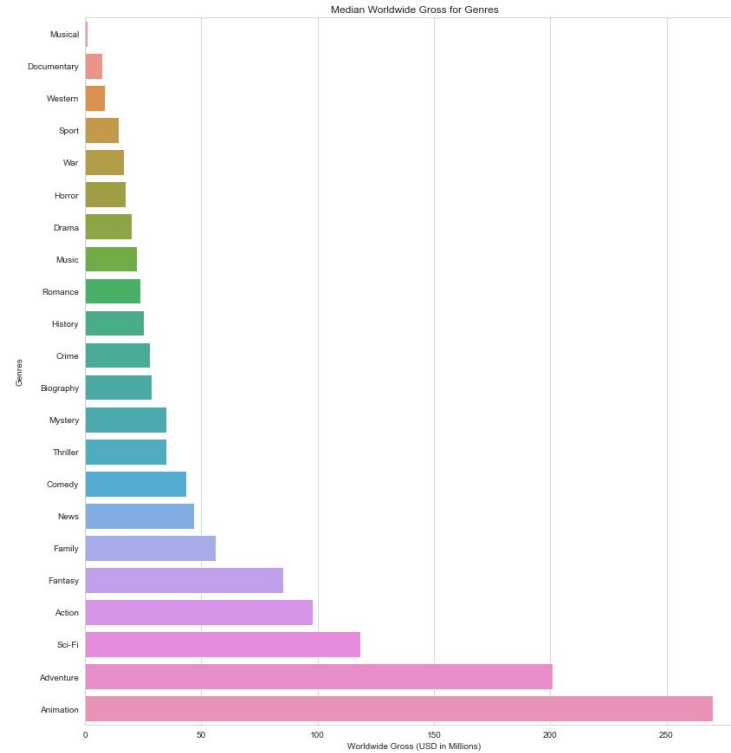

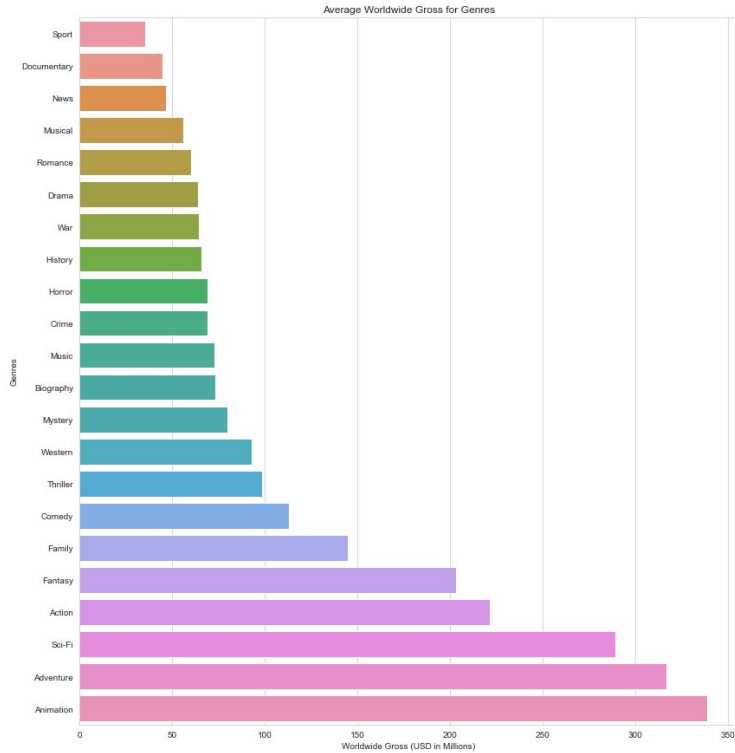IMDB Rating vs Gross

Correlation Coefficient - 0.25/0.269

IMDB Rating vs Gross (>3000 votes and >20 million budget)

Correlation Coefficient - 0.349/0.381

Highest Grossing Genres

Animation

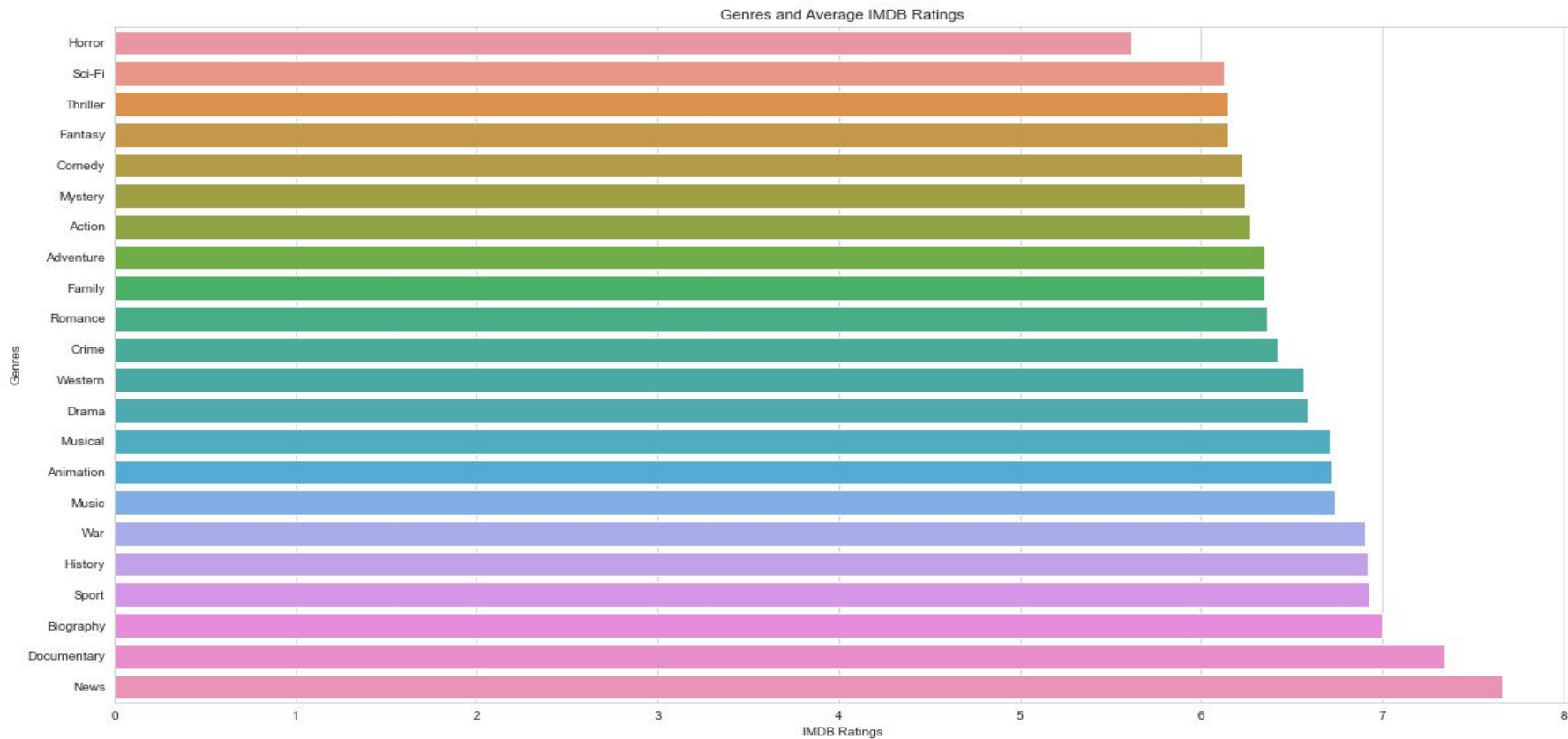**Adventure**

Sci-Fi

Action

Fantasy

Average Worldwide Gross for Genres

Median Worldwide Gross for Genres

IMDB Ratings vs. Genres

Genres and Average IMDB Ratings
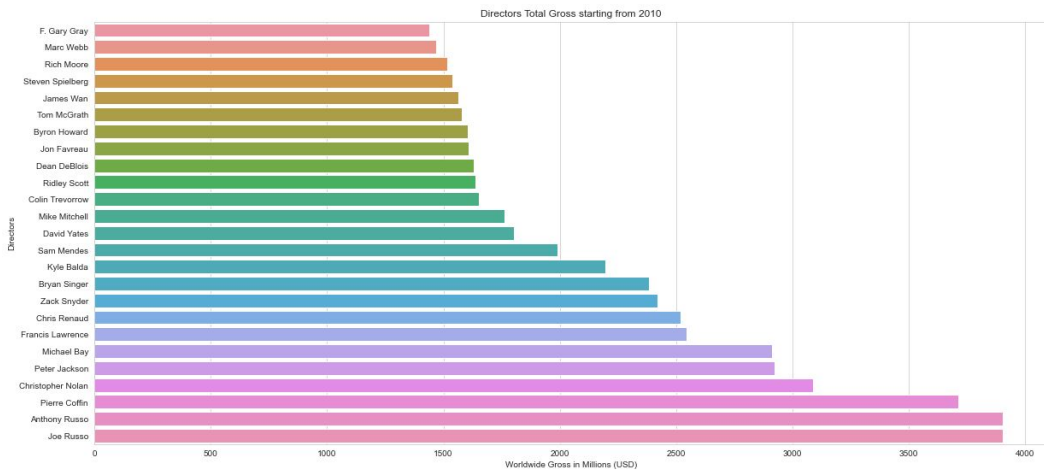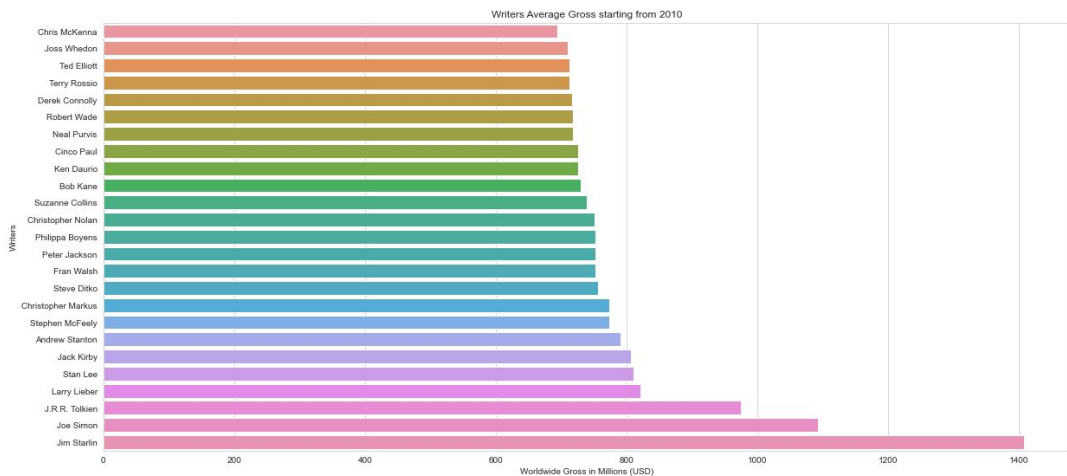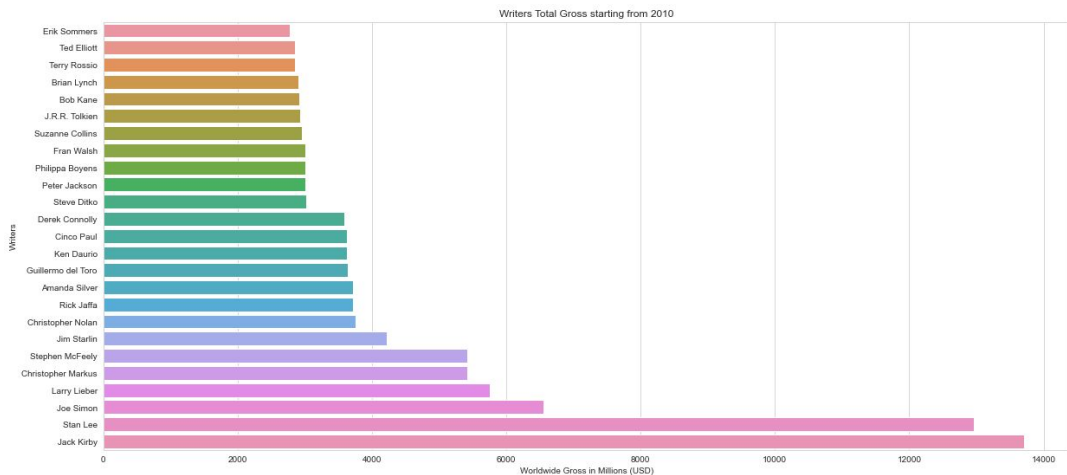
Directors Total and Average Gross since 2010

- **Couple of big name directors that have been around for decades**

- **A lot of directors for franchises**

Directors Total Gross starting from 2010

Directors Average Gross starting from 2010
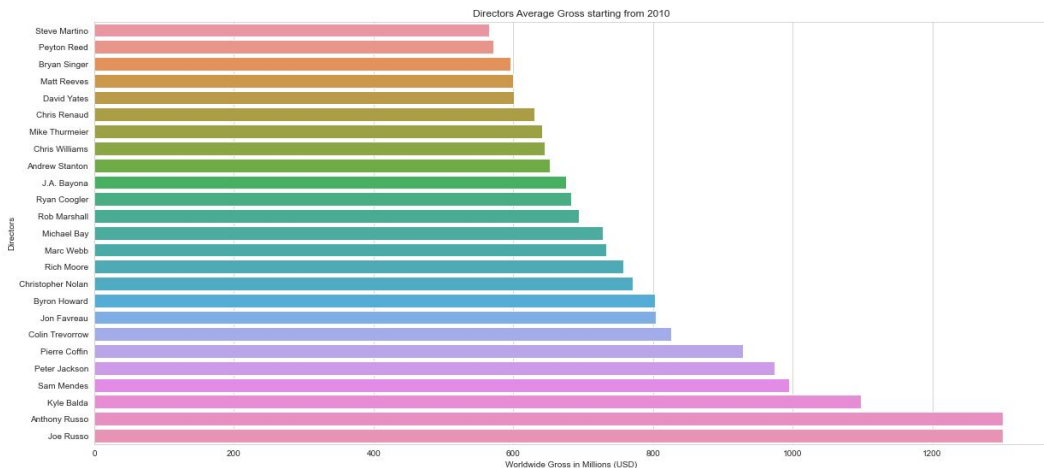
Writers Total and Average Gross since 2010

- **Not limited to screenplay writers**
- **Lots of comic book writers and authors including those who have passed**
- **Adapted screenplays have done very well**

Writers Total Gross starting from 2010

Writers Average Gross starting from 2010

Actors/Actresses Total and Average Gross since 2010

- **Mostly Stars That Are A Part Of Franchises**
- **Only A Few Can Be Credited With Being The Main Reason For Box Office Success**
- **All Household Names**

Actors/Actress Total Gross starting from 2010

Actors/Actress Average Gross starting from 2010
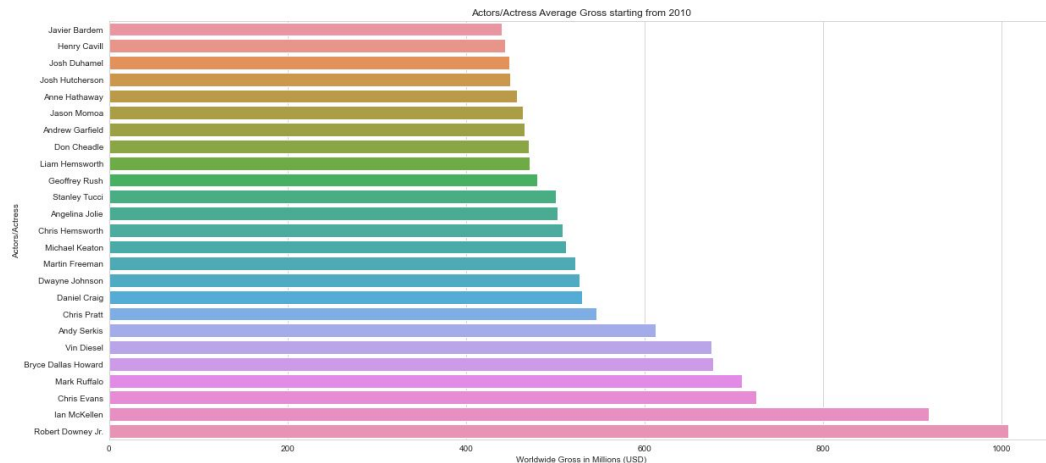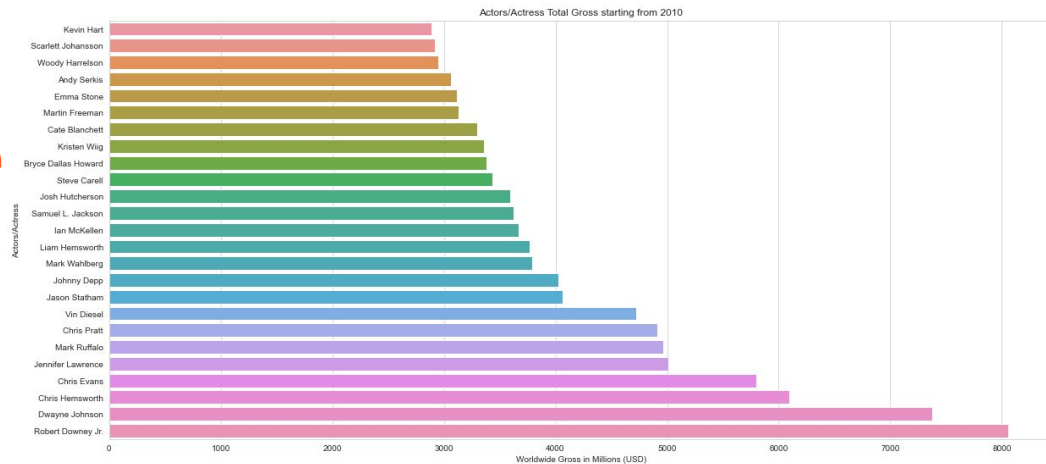
Conclusion

FRANCHISES

GENRES

Animation

Adventure

Sci-Fi

Action

Fantasy

ESTABLISHED SOURCE MATERIAL

Directors With Good Track Record In The Past Ten Years

Big Name Actors That Are Already Household Names

Thank You