

Background

Business problem

Microsoft sees all the big companies creating original video content, and they want to get in on the fun. They have decided to create a new movie studio, but the problem is they don't know anything about creating movies. They have hired you to help them better understand the movie industry. Your team is charged with exploring what type of films are currently doing the best at the box office. You must then translate those findings into actionable insights that the head of Microsoft's new movie studio can use to help decide what type of films to create

My questions and plan

Best Genre

- A best genre in Highest Mean Rating
- A best genre in Highest Total Gross
- Comparing and Summary

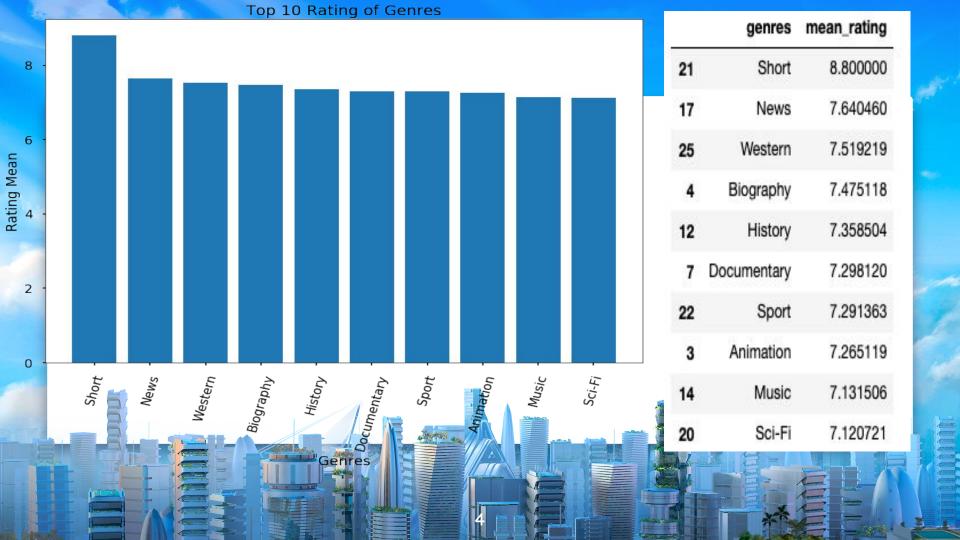
2. Budget vs Total Grosses

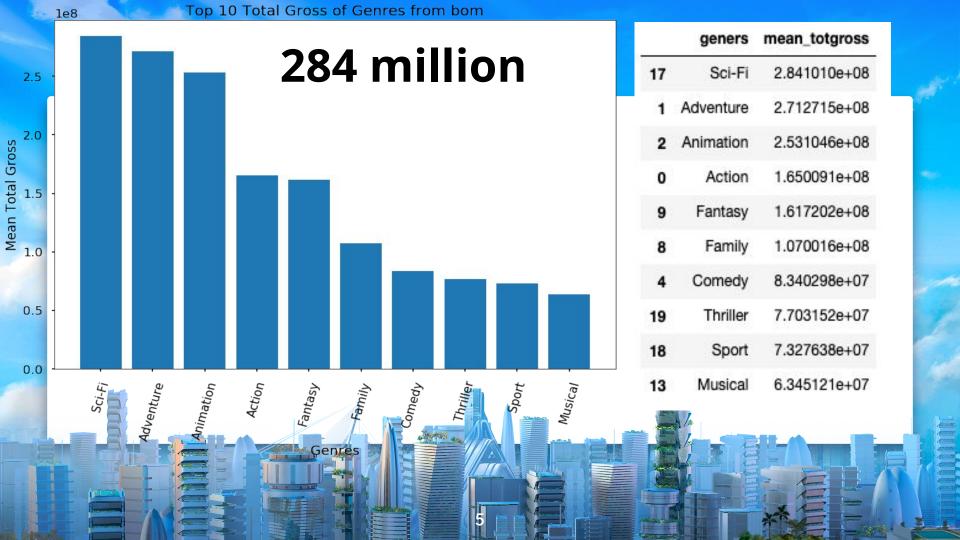
- Are budgets and total grosses connected?
- Which genre has the strongest relationship?
- Which genre has the highest revenue?

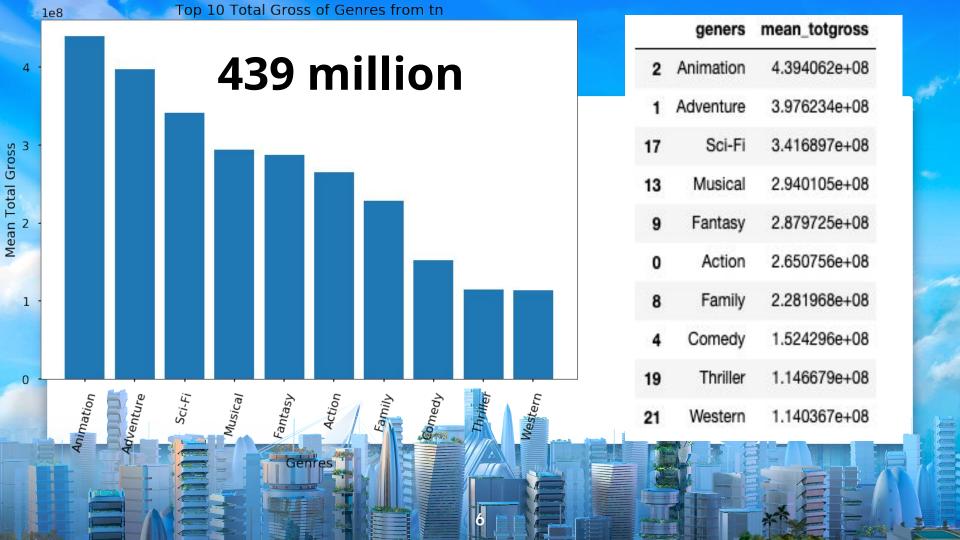
3. Best Runtime

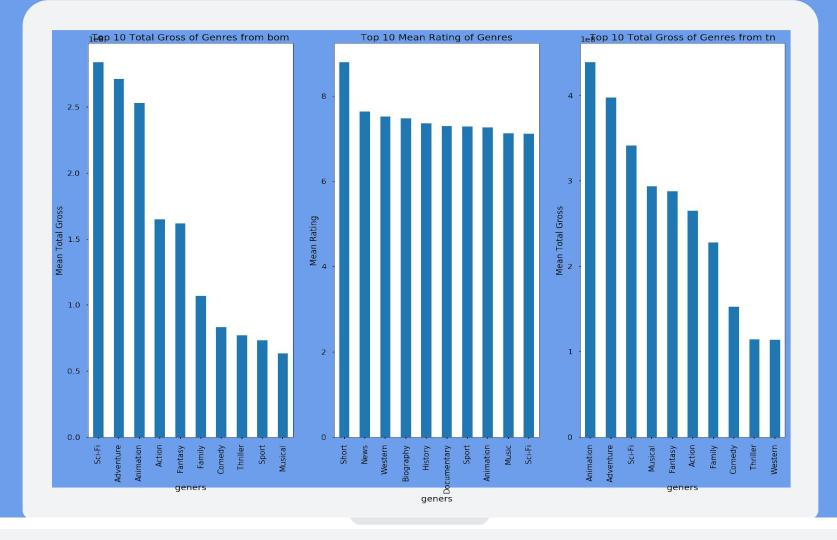
- Find the most runtime range from top rating
- Find the most runtime range from top revenue
- Comparing and Summary



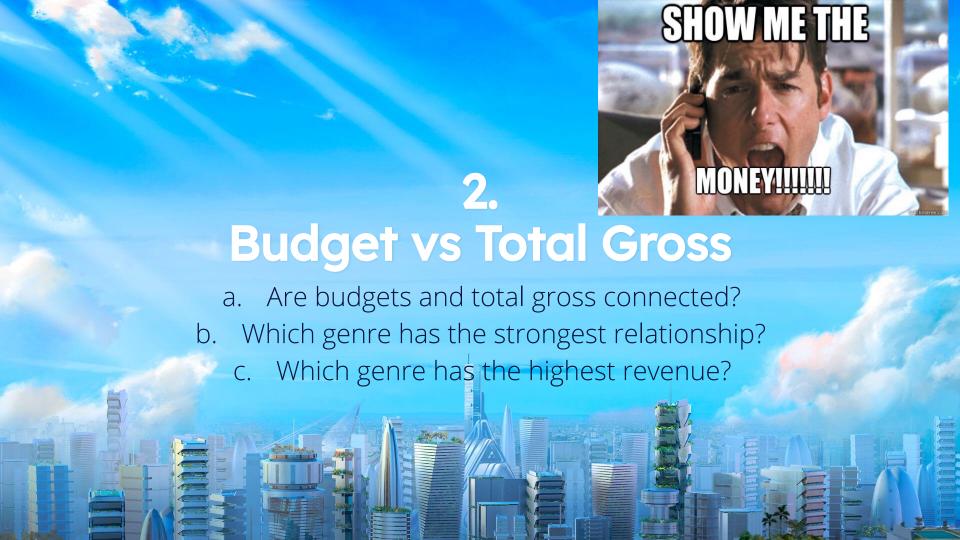


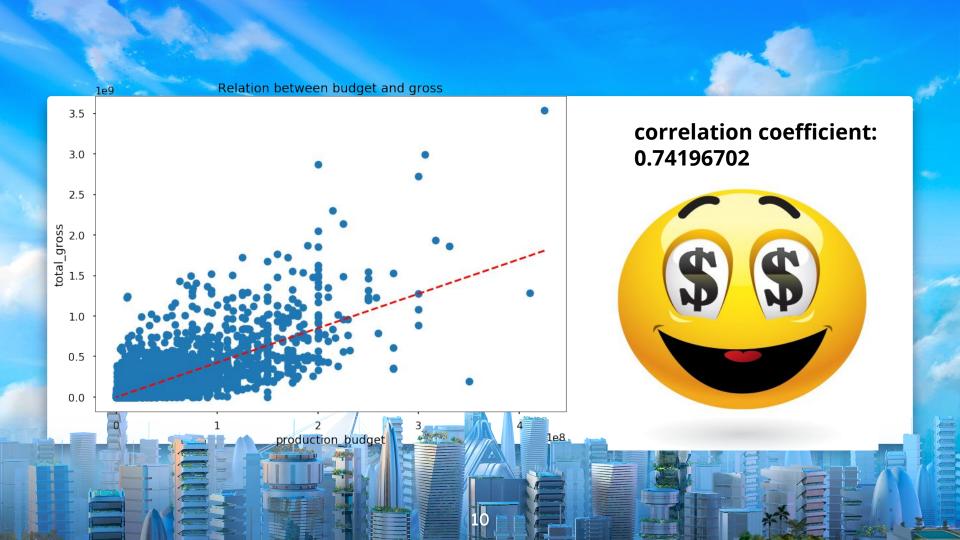


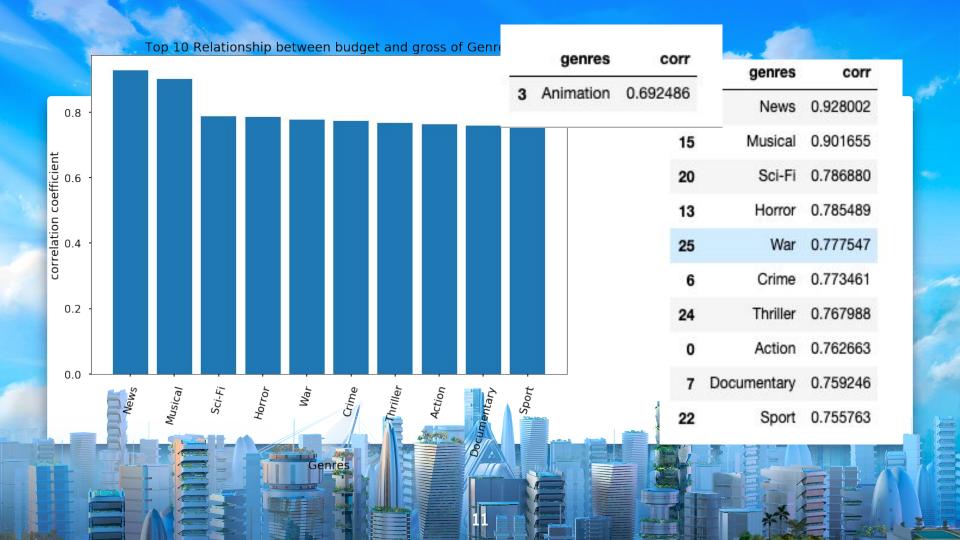


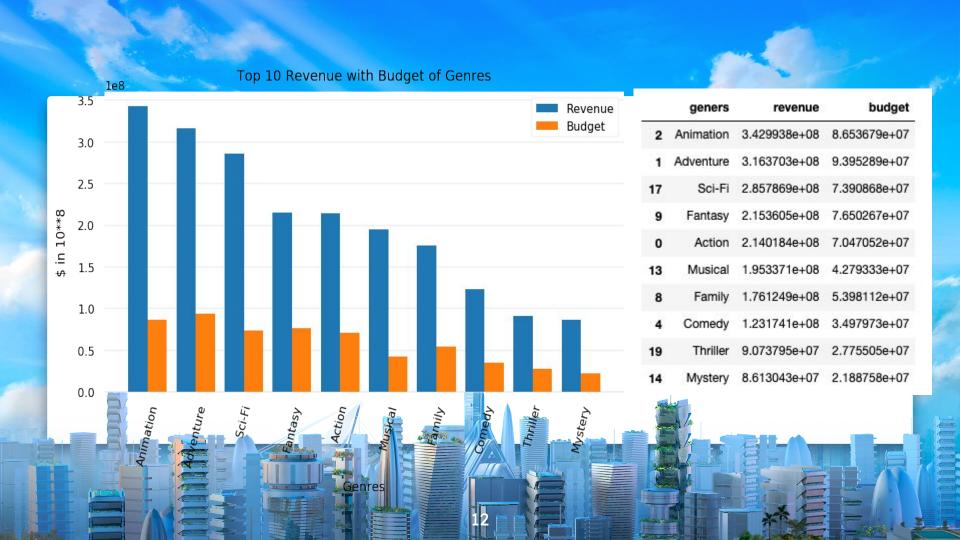








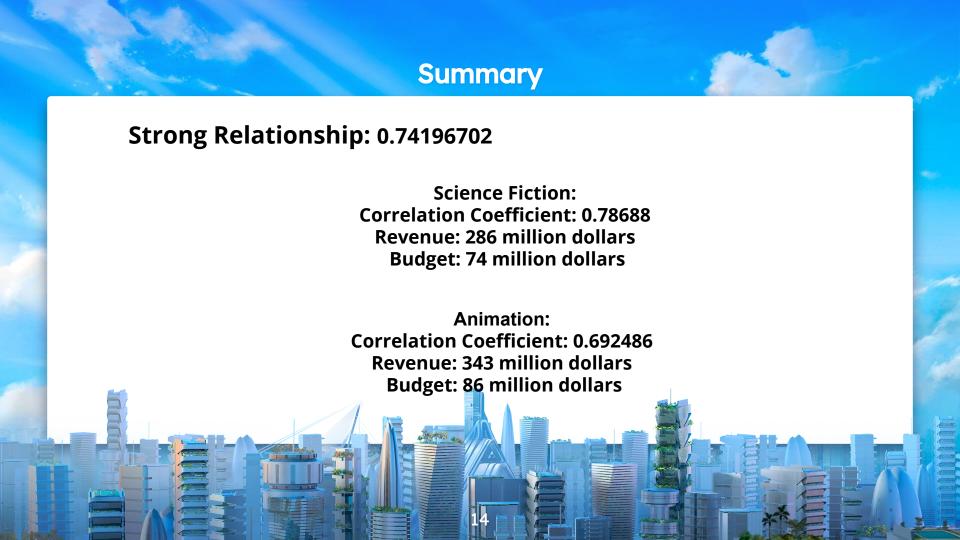


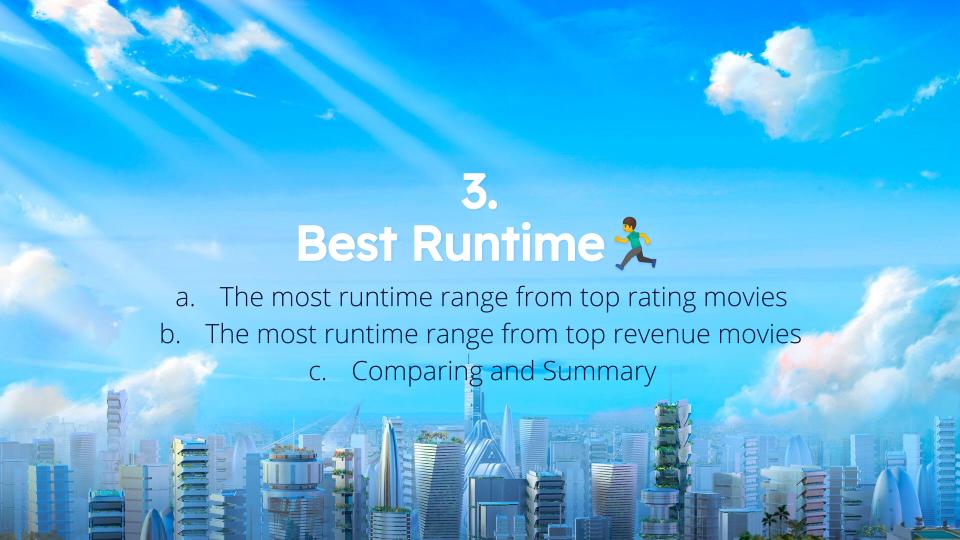


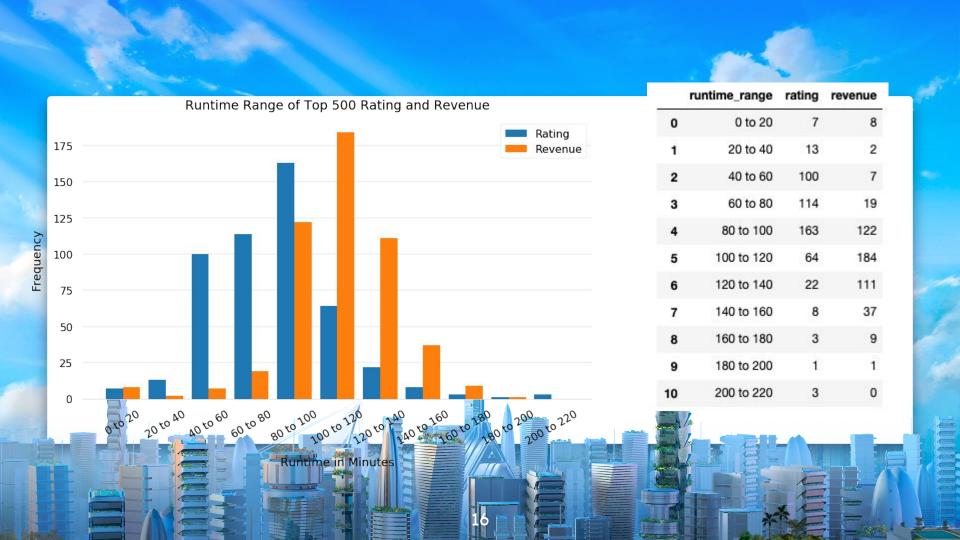


TOP 10 Out of Pocket Movie 157 millions

	original_title	start_year	runtime_minutes	release_date	production_budget	domestic_gross	worldwide_gross	total_gross	count	revenue
tconst										700
tt6565702	Dark Phoenix	2019	113.0	2019	350000000.0	42762350.0	149762350.0	192524700.0	1	-157475300.0
tt2283336	Men in Black: International	2019	115.0	2019	110000000.0	3100000.0	3100000.0	6200000.0	1	-103800000.0
tt5519340	Bright	2017	117.0	2017	90000000.0	0.0	0.0	0.0	1	-90000000.0
tt1305591	Mars Needs Moms	2011	88.0	2011	150000000.0	21392758.0	39549758.0	60942516.0	1	-89057484.0
tt7232438	Puen Tee Raluek	2017	114.0	2017	90000000.0	8224288.0	10551417.0	18775705.0	1	-71224295.0
tt4776998	The Promise	2016	133.0	2017	90000000.0	8224288.0	10551417.0	18775705.0	1	-71224295.0
tt1041804	The Nutcracker in 3D	2010	110.0	2010	90000000.0	195459.0	20466016.0	20661475.0	1	-69338525.0
tt4743226	Da hong zha	2018	120.0	2018	65000000.0	0.0	516279.0	516279.0	1	-64483721.0
tt2479478	The Ridiculous 6	2015	119.0	2015	60000000.0	0.0	0.0	0.0	1	-60000000.0
tt2428672	Midway	2013	85.0	2019	59500000.0	0.0	0.0	0.0	1	-59500000.0









80-100 mins:

rating: 163 Revenue: 122

When watching funny movie alone



100-120 mins:

rating: 64 Revenue: 184





Recommendation

Genres

Conservative:
Genre: Science Fiction
Budget: 74 million dollars
Revenue: 286 million

dollars

Radical: Genre: Animation Budget: 86 million dollars

Revenue: 343 million

dollars

Runtime

Prefer Rating: 80-100 mins

Prefer Revenue: 100-120 mins

Congratulation!

You will make a good movie successfully!





