

# IMDb Movie Analysis

Final Project 1



# Project Description

- Thousands of movies from all over the world are included in the IMDb movie database.
- It contains all the necessary information about the movies, including the title, year, director, genre, cast, box office revenue, budget, IMDb score, user and critic reviews, and other specifics.
- This information is analyzed to determine the success of the films, the popularity of the actors, the genres, and the directors.
- It can also be used to examine historical trends.

## Information I gathered from this database

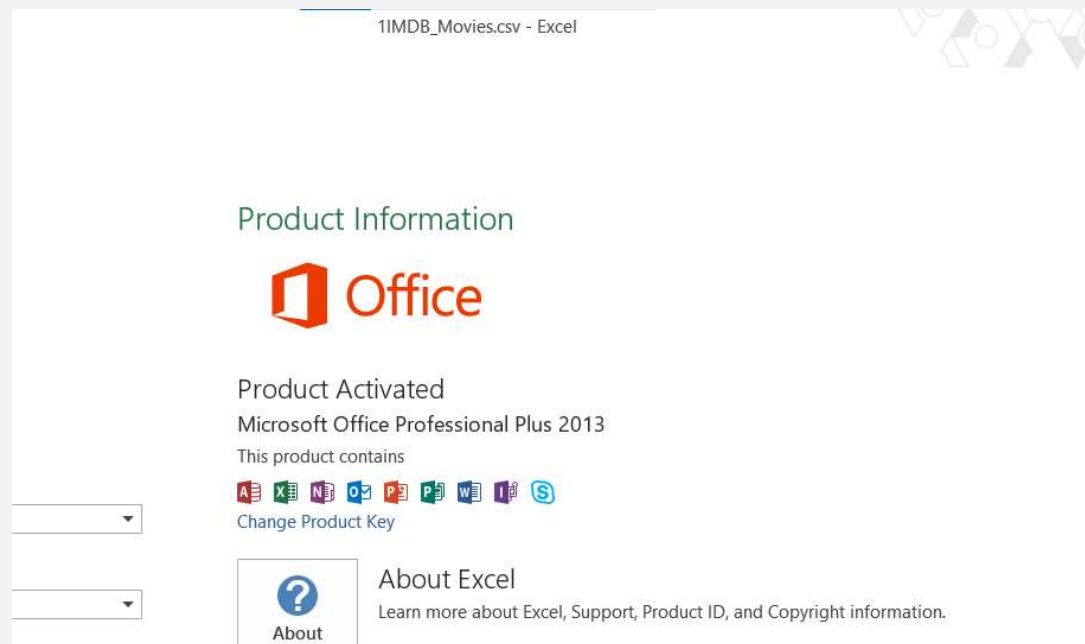
- Movies with the highest profit.
- Top 250 movies with highest IMDb ratings.
- Top foreign language movies with highest IMDb ratings.
- Best directors with highest mean of IMDb scores.
- Popular genres.
- Best critic and audience favorite actor.
- Trend of number of users voted across decades.

# Approach

- First, I examined the data set, including all of the various categories in the sheet like budgets, gross, language, actor, director, IMDb data provided like critic reviews, user reviews, votes etc. to gain a sense of the information accessible to me.
- Then I cleaned the data by removing null values and dropping irrelevant columns.
- Then, I created a profit column and looked at the outliers to determine the lowest and highest in the range.
- Then I examined and comprehended all of the questions asked and summarized my method to solving these questions. Then I applied various methods and formulas in excel sheet and solved the questions.

# Tech Stack Used

- I selected Microsoft Excel v2013 to find the answers to the questions and to make all the graphs and charts.



# Movies with Highest Profit

- For finding Profit = gross – budget

fx =I2-AE2							
	H	I	AE	AF	AM	AN	AO
actor_1_facebook_li	gross	budget	budget in millions	profit	profit in millions		
11000	28341469	25000000	25	3341469	3.341469		
14000	134821952	6000000	6	128821952	128.821952		
23000	533316061	185000000	185	348316061	348.316061		
22000	57300000	13000000	13	44300000	44.3		
5000	377019252	94000000	94	283019252	283.019252		
14000	96067179	22000000	22	74067179	74.067179		

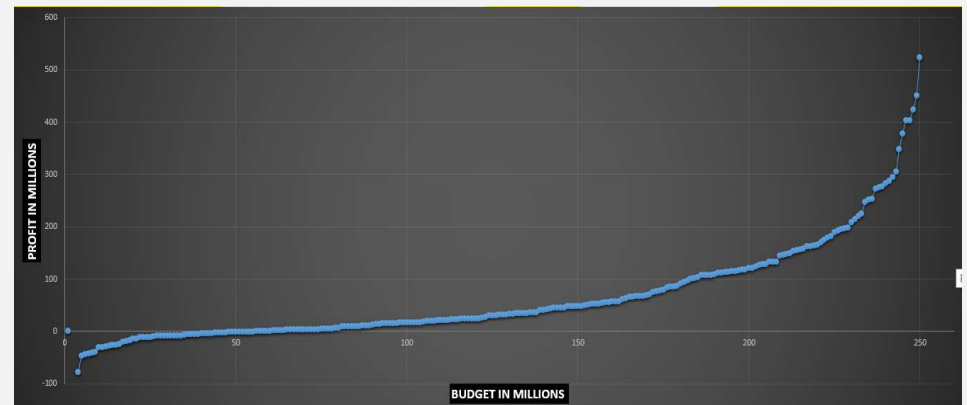
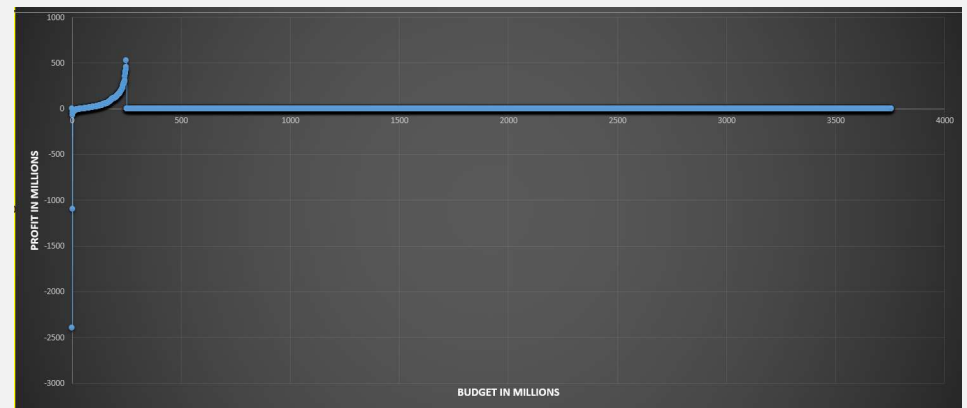
- After sorting profit column, got the top 20 highest profit movies.



movie_title	budget	budget in millions	imdb_score	profit	profit in millions
Avatar	237000000	237	7.9	523505847	523.505847
Star Wars: Episode IV - A New Hope	11000000	11	8.7	449935665	449.935665
E.T. the Extra-Terrestrial	10500000	10.5	7.9	424449459	424.449459
The Avengers	220000000	220	8.1	403279547	403.279547
The Avengers	220000000	220	8.1	403279547	403.279547
The Lion King	45000000	45	8.5	377783777	377.783777
The Dark Knight	185000000	185	9	348316061	348.316061
Deadpool	58000000	58	8.1	305024263	305.024263
Jurassic Park	63000000	63	8.1	293784000	293.784
Finding Nemo	94000000	94	8.2	286838870	286.83887
The Lord of the Rings: The Return of the King	94000000	94	8.9	283019252	283.019252
Star Wars: Episode VI - Return of the Jedi	32500000	32.5	8.4	276625409	276.625409
Forrest Gump	55000000	55	8.8	274691196	274.691196
Star Wars: Episode V - The Empire Strikes Back	18000000	18	8.8	272158751	272.158751
The Sixth Sense	40000000	40	8.1	253501675	253.501675
Jaws	8000000	8	8	252000000	252
The Lord of the Rings: The Two Towers	94000000	94	8.7	246478898	246.478898
Raiders of the Lost Ark	18000000	18	8.5	224374454	224.374454
The Lord of the Rings: The Fellowship of the Ring	93000000	93	8.8	220837577	220.837577
Toy Story 3	200000000	200	8.3	214984497	214.984497

# Profit vs Budget

- This graph between profit & budget shows that there are few movies with negative profit which are the outliers for our data.
- After removing outliers the graph looks like this which is a left skewed. This tells us that as the budget of the movie increased, the profit also increased.



# Finding IMDb Top 250

- After sorting IMDb score column in descending order

AH
imdb_top_250
9.3
9.2
9
9
8.9
8.9
8.9
8.9
8.8
8.8
8.8
8.8
8.8
8.8
8.7
8.7
8.7
8.7
8.7
8.7
8.7
8.6
8.6
8.6
8.6
8.6
8.6
8.6
8.6
8.5
8.5
8.5
8.5

- To find movies where num\_voted\_users is greater than 25,000 in descending order

*fx*    =IF(Q2>25000,Q2,0)

Q	R
num_voted_users	num_voted_user>25k
55597	55597
126893	126893
222099	222099
26413	26413
5557	0
22823	0
439176	439176
279179	279179
122187	122187
47764	47764
209396	209396
42547	42547
112769	112769
146899	146899
4670	0
191912	191912
156898	156898
1622	0
9540	0
13010	0
427357	427357
283418	283418
9010	0
41496	41496
60407	60407
189683	189683



# Adding Rank to Top 250 Movies

- To add rank column for top 250 movies on basis of their IMDb scores

**fx**    **=RANK(AH2,(\$AH\$2:\$AH\$251),0)**



N	P	AH
Rank	Top_250_movies	imdb_top_250
1	The Shawshank Redemption	9.3
2	The Godfather	9.2
3	The Dark Knight	9
3	The Godfather: Part II	9
5	The Lord of the Rings: The Return of the	8.9
5	Schindler's List	8.9
5	Pulp Fiction	8.9
5	The Good, the Bad and the Ugly	8.9
9	Inception	8.8
9	The Lord of the Rings: The Fellowship o	8.8
9	Fight Club	8.8
9	Forrest Gump	8.8
9	Star Wars: Episode V - The Empire Strike	8.8
14	The Lord of the Rings: The Two Towers	8.7
14	The Matrix	8.7
14	Goodfellas	8.7
14	Star Wars: Episode IV - A New Hope	8.7
14	One Flew Over the Cuckoo's Nest	8.7
14	City of God	8.7
14	Seven Samurai	8.7
21	Interstellar	8.6
21	Saving Private Ryan	8.6
21	Se7en	8.6
21	The Silence of the Lambs	8.6
21	Spirited Away	8.6
21	American History X	8.6
21	The Usual Suspects	8.6
21	Modern Times	8.6
29	The Dark Knight Rises	8.5
29	Gladiator	8.5
29	Terminator 2: Judgment Day	8.5
29	Django Unchained	8.5
29	The Departed	8.5

154	Central Station	8
154	Young Frankenstein	8
154	Before Sunset	8
154	Waltz with Bashir	8
154	Sling Blade	8
154	A Fistful of Dollars	8
207	Avatar	7.9
207	The Hobbit: The Desolation of Smaug	7.9
207	Edge of Tomorrow	7.9
207	Big Hero 6	7.9
207	How to Train Your Dragon 2	7.9
207	Iron Man	7.9
207	Toy Story 2	7.9
207	Children of Men	7.9
207	The Insider	7.9
207	Shrek	7.9
207	The Bourne Identity	7.9
207	Almost Famous	7.9
207	Captain Phillips	7.9
207	The Hateful Eight	7.9
207	Hero	7.9
207	Hero	7.9
207	The Notebook	7.9
207	Straight Outta Compton	7.9
207	Walk the Line	7.9
207	The Blues Brothers	7.9
207	The Right Stuff	7.9
207	Taken	7.9
207	The Fighter	7.9

# Finding Top Foreign Language Movies

- To find foreign language movies from top 250 movies
- After removing zeroes we got the desired results

$f_x$	=IF(AA2="English",0,P2)
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N	P	R	AA
Rank	Top_250_movies	Top_Foreign_Lang_Film	language
1	The Shawshank Redemption		English
2	The Godfather		English
3	The Dark Knight		English
3	The Godfather: Part II		English
5	The Lord of the Rings: The Return of the		English
5	Schindler's List		English
5	Pulp Fiction		English
5	The Good, the Bad and the Ugly	The Good, the Bad and the Ugly	Italian
9	Inception		English
9	The Lord of the Rings: The Fellowship o		English
9	Fight Club		English
9	Forrest Gump		English
9	Star Wars: Episode V - The Empire Strike		English
14	The Lord of the Rings: The Two Towers		English
14	The Matrix		English
14	Goodfellas		English
14	Star Wars: Episode IV - A New Hope		English
14	One Flew Over the Cuckoo's Nest		English
14	City of God	City of God	Portuguese
14	Seven Samurai	Seven Samurai	Japanese
21	Interstellar		English
21	Saving Private Ryan		English
21	Se7en		English
21	The Silence of the Lambs		English
21	Spirited Away	Spirited Away	Japanese
21	American History X		English
21	The Usual Suspects		English

Top_Foreign_Lang_Film
The Good, the Bad and the Ugly
City of God
Seven Samurai
Spirited Away
The Lives of Others
Children of Heaven
Princess Mononoke
Amélie
Das Boot
Oldboy
A Separation
Downfall
Metropolis
The Hunt
Howl's Moving Castle
Pan's Labyrinth
Incendies
The Secret in Their Eyes
Akira
Tae Guk Gi: The Brotherhood of War
The Sea Inside
Elite Squad
Amores Perros
The Celebration
My Name Is Khan
Persepolis
Central Station
Waltz with Bashir
A Fistful of Dollars
Hero
Hero
Letters from Iwo Jima
Crouching Tiger, Hidden Dragon
Amour
The Chorus

# Finding Best Directors

- To find best directors, created a pivot table using director\_name column and IMDb mean score

**PivotTable Fields**

Choose fields to add to report:

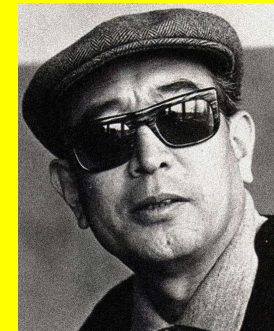
- ☐ country
- ☐ director\_facebook\_likes
- ☒ director\_name
- ☐ duration
- ☐ facenumber\_in\_poster
- ☐ genres
- ☐ gross
- ☒ imdb\_score
- ☐ imdb\_top\_250
- ☐ language
- ☐ movie\_facebook\_likes
- ☐ movie\_imdb\_link

Drag fields between areas below:

FILTERS	COLUMNS
<b>ROWS</b>	<b>VALUES</b>
director_name	Mean of imdb_score

Top Directors	Mean of imdb_score
Akira Kurosawa	8.7
Tony Kaye	8.6
Charles Chaplin	8.6
Ron Fricke	8.5
Majid Majidi	8.5
Damien Chazelle	8.5
Alfred Hitchcock	8.5
Sergio Leone	8.43333333
Christopher Nolan	8.425
Richard Marquand	8.4
Asghar Farhadi	8.4
Lenny Abrahamson	8.3
Lee Unkrich	8.3
Fritz Lang	8.3
Billy Wilder	8.3
Pete Docter	8.23333333
Hayao Miyazaki	8.225
Quentin Tarantino	8.2
Joshua Oppenheimer	8.2
Juan Jos�� Campanella	8.2
George Roy Hill	8.2

Top_10_directors	imdb_mean
Akira Kurosawa	8.7
Charles Chaplin	8.6
Tony Kaye	8.6
Alfred Hitchcock	8.5
Damien Chazelle	8.5
Majid Majidi	8.5
Ron Fricke	8.5
Sergio Leone	8.43
Christopher Nolan	8.425
Richard Marquand	8.4



# Finding Popular Genres

- To find popular genres, first I created a pivot table on basis of genres and average of IMDb score for each of them and sorted the average IMDb score column in descending to get the top scorers.

**PivotTable Fields**

Choose fields to add to report:

- ☐ country
- ☐ director\_facebook\_likes
- ☐ director\_name
- ☐ duration
- ☐ facenumber\_in\_poster
- ☒ **genres**
- ☐ gross
- ☒ **imdb\_score**
- ☐ imdb\_top\_250
- ☐ language
- ☐ movie\_facebook\_likes
- ☐ movie\_imdb\_link

Drag fields between areas below:

FILTERS	COLUMNS

ROWS	VALUES
genres	Average of imdb_score

Genres	Average of imdb_score
Crime Drama Fantasy Mystery	8.5
Adventure Animation Drama Family Musical	8.5
Adventure Animation Fantasy	8.4
Adventure Drama Thriller War	8.4
Documentary Drama Sport	8.3
Biography Drama History Music	8.3
Adventure Animation Comedy Drama Family Fantasy	8.3
Adventure Drama War	8.25
Biography Crime Documentary History	8.2
Drama Fantasy War	8.2
Drama Mystery War	8.2
Documentary History	8.1
Biography Crime Drama History	8.1
Documentary History Music	8.1
Biography Crime Drama Western	8.1
Western	8.1
Action Animation Sci-Fi	8.1
Adventure Comedy Crime Drama	8.1
Adventure Drama Thriller Western	8.1
Biography Drama Family Musical Romance	8
Animation Biography Documentary Drama History War	8
Animation Biography Drama War	8
Crime Documentary Drama	8
Crime Drama Musical	8
Action Adventure Animation Family	8
Drama Family Musical Romance	7.95
Action Adventure Animation Comedy Drama Family Sci-Fi	7.95
Fantasy Romance	7.9
Biography Crime Drama History War	7.8

# Top 20 Genres

- Now filter the data by num\_voted\_user>25k to get the genres with voted users more than 25k

num_voted_user>25k	(Multiple Items)	
Genres	Average of imdb_score	
Crime Drama Fantasy Mystery	8.5	
Adventure Animation Drama Family Musical	8.5	
Drama Western	8.4	
Adventure Animation Fantasy	8.4	
Adventure Drama Thriller War	8.4	
Biography Drama History Music	8.3	
Adventure Animation Comedy Drama Family Fantasy	8.3	
Adventure Drama War	8.25	
Drama Fantasy War	8.2	
Crime Drama Romance	8.2	
Drama Mystery War	8.2	
Adventure Family Fantasy Musical	8.1	
Adventure Drama Thriller Western	8.1	
Western	8.1	
Biography Crime Drama Western	8.1	
Biography Crime Drama History	8.1	
Biography Drama Thriller War	8.1	
Adventure Comedy Crime Drama	8.1	
Action Animation Sci-Fi	8.1	
Drama Family	8.05	
Animation Biography Documentary Drama History War	8	
Animation Biography Drama War	8	
Biography Drama Family Musical Romance	8	
Documentary Drama	8	
Crime Documentary Drama	8	
Crime Drama Musical	8	
Action Adventure Animation Family	8	
Action Drama Western	8	

- These are the top 20 genres according to their IMDb average scores with rank.

Rank	Genres	Average of imdb_score
1	Crime Drama Fantasy Mystery	8.5
1	Adventure Animation Drama Family Musical	8.5
3	Drama Western	8.4
3	Adventure Animation Fantasy	8.4
3	Adventure Drama Thriller War	8.4
6	Biography Drama History Music	8.3
6	Adventure Animation Comedy Drama Family Fantasy	8.3
8	Adventure Drama War	8.25
9	Drama Fantasy War	8.2
9	Crime Drama Romance	8.2
9	Drama Mystery War	8.2
12	Adventure Family Fantasy Musical	8.1
12	Adventure Drama Thriller Western	8.1
12	Western	8.1
12	Biography Crime Drama Western	8.1
12	Biography Crime Drama History	8.1
12	Biography Drama Thriller War	8.1
12	Adventure Comedy Crime Drama	8.1
12	Action Animation Sci-Fi	8.1
20	Drama Family	8.05

Critic & User Favorite  
Actor





# Meryl Streep Column

- For meryl\_streep column

**fx** =IF(K3="Meryl Streep",P3,0)

K	L	P
actor_1_name	meryl_streep	movie_title
Robert De Niro	0	Midnight Run
Harrison Ford	0	Indiana Jones and the Temple of Doom
Kate Winslet	0	Little Children
Meryl Streep	The Hours	The Hours
Jeff Bridges	0	The Fisher King
Michael Wincott	0	The Crow

- Filtering out zeroes we get this movie list for Meryl Streep

K	L
actor_1_name	meryl_streep
Meryl Streep	The Hours
Meryl Streep	Out of Africa
Meryl Streep	Julie & Julia
Meryl Streep	The Devil Wears Prada
Meryl Streep	It's Complicated
Meryl Streep	The Iron Lady
Meryl Streep	The River Wild
Meryl Streep	Hope Springs
Meryl Streep	Lions for Lambs
Meryl Streep	One True Thing
Meryl Streep	A Prairie Home Companion

# Leonardo DiCaprio Column

- For leo\_caprio column

*fx* =IF(K3="Leonardo DiCaprio",P3,0)

- Filtering out zeroes we get this movie list for Leonardo DiCaprio

K	M	P
actor_1_name	leo_caprio	movie_title
Bruce Willis	0	Pulp Fiction
Clint Eastwood	0	The Good, the Bad and the Ugly
Leonardo DiCaprio	Inception	Inception
Christopher Lee	0	The Lord of the Rings: The Fellowship of the Ring
Brad Pitt	0	Fight Club
Tom Hanks	0	Forrest Gump

K	M
actor_1_name	leo_caprio
Leonardo DiCaprio	Inception
Leonardo DiCaprio	Django Unchained
Leonardo DiCaprio	The Departed
Leonardo DiCaprio	The Wolf of Wall Street
Leonardo DiCaprio	The Revenant
Leonardo DiCaprio	Shutter Island
Leonardo DiCaprio	Blood Diamond
Leonardo DiCaprio	Catch Me If You Can
Leonardo DiCaprio	Titanic
Leonardo DiCaprio	The Aviator
Leonardo DiCaprio	Gangs of New York
Leonardo DiCaprio	The Great Gatsby
Leonardo DiCaprio	The Great Gatsby
Leonardo DiCaprio	Revolutionary Road
Leonardo DiCaprio	Body of Lies
Leonardo DiCaprio	Romeo + Juliet
Leonardo DiCaprio	The Beach
Leonardo DiCaprio	J. Edgar
Leonardo DiCaprio	The Man in the Iron Mask
Leonardo DiCaprio	The Quick and the Dead
Leonardo DiCaprio	Marvin's Room



# Brad Pitt Column

- For brad\_pitt column

*f<sub>x</sub>* =IF(K3="Brad Pitt",P3,0)

- Filtering out zeroes we get this movie list for Brad Pitt

K	N	P
actor_1_name	brad_pitt	movie_title
Bruce Willis	0	Pulp Fiction
Clint Eastwood	0	The Good, the Bad and the Ugly
Leonardo DiCaprio	0	Inception
Christopher Lee	0	The Lord of the Rings: The Fellowship of the Ring
Brad Pitt	Fight Club	Fight Club
Tom Hanks	0	Forrest Gump

K	N
actor_1_name	brad_pitt
Brad Pitt	Fight Club
Brad Pitt	True Romance
Brad Pitt	Curious Case of Benjamin Button
Brad Pitt	Ocean's Eleven
Brad Pitt	Fury
Brad Pitt	Interview with the Vampire: The Vampire Chronicles
Brad Pitt	Execution of Jesse James by the Cowardly Irishman
Brad Pitt	Babel
Brad Pitt	Troy
Brad Pitt	Spy Game
Brad Pitt	Seven Years in Tibet
Brad Pitt	Madagascar: Legend of the Seven Seas
Brad Pitt	The Tree of Life
Brad Pitt	Mr. & Mrs. Smith
Brad Pitt	Ocean's Twelve
Brad Pitt	Killing Them Softly
Brad Pitt	By the Sea

# Combined Column

- Combined column for these three columns

Combined
The Hours
Out of Africa
Julie & Julia
The Devil Wears Prada
It's Complicated
The Iron Lady
The River Wild
Hope Springs
Lions for Lambs
One True Thing
A Prairie Home Companion
Inception
Django Unchained
The Departed
The Wolf of Wall Street
The Revenant
Shutter Island
Blood Diamond
Catch Me if You Can
Titanic
The Aviator
Gangs of New York
The Great Gatsby
The Great Gatsby
Revolutionary Road
Body of Lies
Romeo + Juliet
The Beach
J. Edgar
The Man in the Iron Mask
The Quick and the Dead
Marvin's Room
Fight Club
True Romance
The Curious Case of Benjamin Button
Ocean's Eleven
Fury
Interview with the Vampire: The Vampire Chronicles
The Assassination of Jesse James by the Coward Robert Ford

# Mean of Critic & User Reviews

- For critic favourite actor & audience favourite actor, I created a pivot table using combined column, actor\_1\_name column & Mean of num\_critic\_for\_reviews & num\_user\_for\_reviews column.

**PivotTable Fields**

Choose fields to add to report:

- ☐ imdb\_score
- ☐ imdb\_top\_250
- ☐ language
- ☐ leo\_caprio
- ☐ meryl\_streep
- ☐ movie\_facebook\_likes
- ☐ movie\_imdb\_link
- ☐ movie\_title
- ☒ num\_critic\_for\_reviews
- ☒ num\_user\_for\_reviews
- ☐ num\_voted\_user>25k
- ☐ num\_voted\_user

Drag fields between areas below:

FILTERS		COLUMNS	
		Σ Values	
ROWS		VALUES	
actor_1_name		Mean of num_critic_for_reviews	
Combined		Mean of num_user_for_reviews	

actor_1_name	Mean of num_critic_for	Mean of num_user_for_re
<b>Leonardo DiCaprio</b>	<b>330.1904762</b>	<b>914.4761905</b>
Blood Diamond	166	657
Body of Lies	238	263
Catch Me If You Can	194	667
Django Unchained	765	1193
Gangs of New York	233	1166
Inception	642	2803
J. Edgar	392	279
Marvin's Room	45	71
Revolutionary Road	323	414
Romeo + Juliet	106	506
Shutter Island	490	964
The Aviator	267	799
The Beach	118	548
The Departed	352	2054
The Great Gatsby	490	753
The Man in the Iron Mask	83	244
The Quick and the Dead	63	216
The Revenant	556	1188
The Wolf of Wall Street	606	1138
Titanic	315	2528
<b>Brad Pitt</b>	<b>245</b>	<b>742.3529412</b>
Babel	285	908
By the Sea	131	61
Fight Club	315	2968
Fury	406	701
Interview with the Vampire: The Vampire Chronicles	120	406
Killing Them Softly	414	369
Mr. & Mrs. Smith	233	798
Ocean's Eleven	186	845
Ocean's Twelve	198	627
Seven Years in Tibet	76	119
Sinbad: Legend of the Seven Seas	98	91
Spy Game	142	361
The Assassination of Jesse James by the Coward R	273	415
The Curious Case of Benjamin Button	362	822
The Tree of Life	584	975
Troy	220	1694
True Romance	122	460
<b>Meryl Streep</b>	<b>181.4545455</b>	<b>297.1818182</b>
A Prairie Home Companion	211	280
Hope Springs	234	178
It's Complicated	187	214
Julie & Julia	252	277
Lions for Lambs	227	298
One True Thing	64	112
Out of Africa	66	200
The Devil Wears Prada	208	631
The Hours	174	660

# Favorite Actor Conclusion

- After sorting on mean columns, we got the below results:

actor_1_name	Mean of num_critic_for_reviews	Mean of num_user_for_reviews
+ Leonardo DiCaprio	330.1904762	914.4761905
+ Brad Pitt	245	742.3529412
+ Meryl Streep	181.4545455	297.1818182

- This shows that “Leonardo DiCaprio” is both Critic and Audience favourite actor.



# Trend of Voted Users over the Decades

- For decade column:

*fx* =LEFT(AB2,3)&"0s"

Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
last_to	actor_3	facenu	plot_ke	movie_	num_u	language	country	content	budget	budget	title_ye	decade
203	Rudolf Klei	1	art deco   t	http://ww	413	German	Germany	Not Rated	6000000	6	1927	1920s
109	Charles Kir	8	sibling riva	http://ww	71	English	USA	Passed	379000	0.379	1929	1920s
995	George Bri	2	chorus girl	http://ww	97	English	USA	Unrated	439000	0.439	1933	1930s
824	Eric Blore	2	dance   dar	http://ww	98	English	USA	Approved	609000	0.609	1935	1930s
352	Fred Malat	1	actor direc	http://ww	211	English	USA	G	1500000	1.5	1936	1930s
229	Lucille La \	1	dwarf   low	http://ww	204	English	USA	Approved	2000000	2	1937	1930s
1862	Thomas M	1	battle of tl	http://ww	706	English	USA	G	3977000	3.977	1939	1930s
2509	Billie Burke	3	evil witch	http://ww	533	English	USA	Passed	2800000	2.8	1939	1930s
1178	Cliff Edwai	0	boy   consc	http://ww	147	English	USA	Approved	2600000	2.6	1940	1940s
1941	Dana Andr	5	love   pity	http://ww	235	English	USA	Not Rated	2100000	2.1	1946	1940s

- After sorting decade column, I created a pivot table grouping decade and num\_voted\_users column.
- The table shows sum of voted users in each decade.

decade	Sum of num_voted_users
1920s	116387
1930s	804839
1940s	159517
1950s	678336
1960s	2982551
1970s	8617826
1980s	19836260
1990s	69868349
2000s	172671176
2010s	121235552

**PivotTable Fields**

Choose fields to add to report:

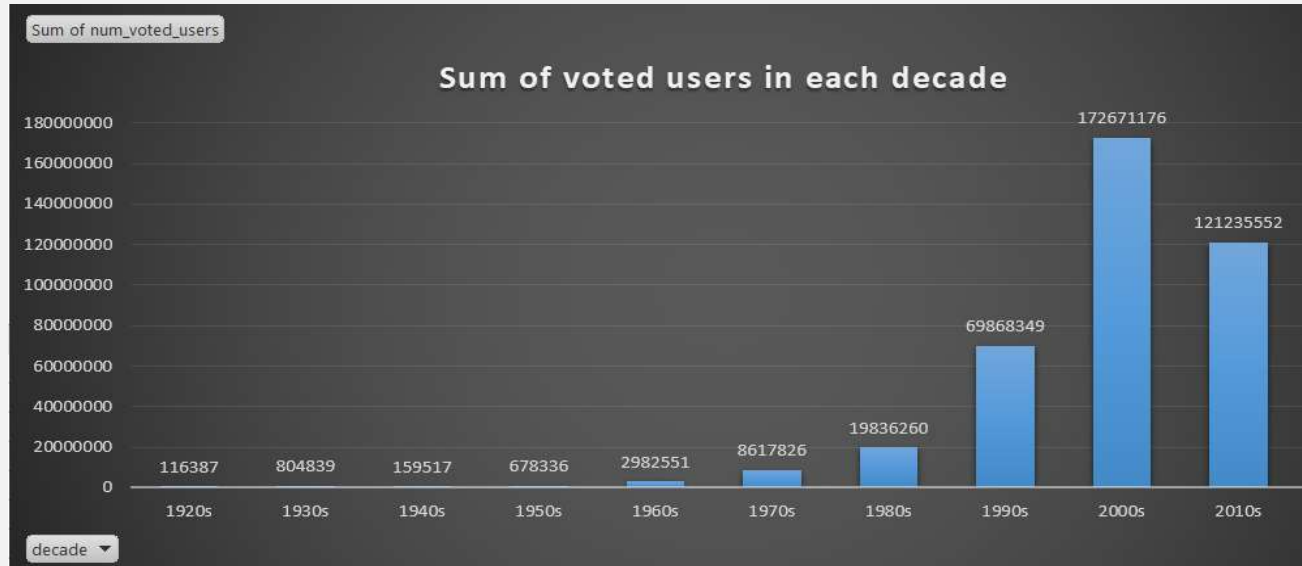
- ☒ num\_voted\_users
- ☐ num\_voted\_user>25k
- ☐ cast\_total\_facebook\_likes
- ☐ actor\_3\_name
- ☐ facenumber\_in\_poster
- ☐ plot\_keywords
- ☒ movie\_imdb\_link
- ☐ num\_user\_for\_reviews
- ☐ language
- ☐ country
- ☐ content\_rating
- ☐ budget
- ☐ budget in millions
- ☐ title\_year
- ☒ decade
- ☐ actor\_2\_facebook\_likes

Drag fields between areas below:

FILTERS	COLUMNS
ROWS	VALUES
decade	Sum of num_voted_users

# Change in Number of Voted Users over Decades

- Plotting bar graph between “decade” & “Sum of num\_voted\_users” columns.



- This graph shows that there is a significant increase in number of voted users after 1990s & in 2000s.

# Results

- After doing the analysis on IMDb database, I was able to find the following results and insights:
- Most profitable movies.
- Higher scorer IMDb movies.
- Foreign language movies with best IMDb ratings.
- Top directors.
- Popular genres.
- Most favorite actor.
- Trend of number of users voted across decades.

THANK YOU

