

IMDB Movie Analysis

Project Description

This project focuses on identifying the key factors that contribute to a movie's success as measured by high IMDB ratings. The insights derived from this analysis aim to provide valuable guidance to filmmakers, producers, and investors, helping them make informed decisions about future projects. Areas of investigation include movie genres, durations, languages, directors, and budgets.

Approach

1. Data Preparation:

- Handle missing values by substituting appropriate defaults or removing incomplete rows.
- Eliminate duplicate records to ensure data integrity.
- Create new features, such as separating combined genres into individual ones.

2. Analytical Techniques:

- Apply statistical functions to compute metrics like mean, median, standard deviation, and variance.
- Use Excel tools such as pivot tables, scatter plots, and bar charts for visualization.
- Investigate correlations to uncover significant relationships between variables.

3. Exploratory Questions:

- What are the most popular movie genres, and how do they correlate with high ratings?
- How does the length of a movie affect its rating?
- Which languages are associated with highly-rated movies?
- Do specific directors consistently produce better-rated movies?
- What is the relationship between budgets and box office success?

4. Communicating Findings:

- Summarize results through charts and graphs.
- Develop actionable recommendations based on observed trends.

Tech-Stack Used

- **Microsoft Excel:**
 - Data cleaning, statistical analysis, and visualization.
- **Google Drive:**
 - Sharing project files and ensuring accessibility.
- **Microsoft Word/PPT:**
 - Creating the final report and presentation.

Insights

Here's what you'll be doing:

1. Data Cleaning:

a. Cleaning Blanks:

The screenshot shows a Microsoft Excel spreadsheet titled "IMDB_Movies". The "Table Design" ribbon tab is selected. A context menu is open over a row of data, specifically over the "director_name" column. The "Text Filters" option is highlighted. A sub-menu window titled "Text Filters" is displayed, showing several filter categories: "Zach Cregger", "Zack Snyder", "Zai Batmanglij", "Zoran Ušinac", and "Blanks". The "Blanks" option is checked. The main table area contains numerous rows of movie data, including columns for director_name, num_critic_for_reviews, duration, director_facebook_likes, actor_3_facebook_likes, actor_2_name, actor_1_facebook_likes, gross, genres, actor_1_name, movie_title, num_voted_users, cast_total, and others.

Cleaning director_name blanks

The screenshot shows the same Microsoft Excel spreadsheet after cleaning. The "Table Design" ribbon tab is still selected. A context menu is open over the same row of data, but now the "Delete Rows" option under the "Delete" section is selected. The main table area now shows a clean dataset where all rows have valid entries in the "director_name" column. The "director_name" column values include names like "Joel David Moore", "Orlando Bloom", "Rory Kinnear", "Christian Bale", "Rob Walker", "Samantha Morton", "James Franco", "Donna Murphy", "Daniel Radcliffe", "Lauren Cohen", "Marlon Brando", "Mathieu Amalric", "Orlando Bloom", "Ruth Wilson", "Christopher Meloni", "Eva Green", "Sam Clafin", "Michael Stuhlbarg", "Adam Brown", "Andrew Garfield", "William Hurt", "Adam Brown", "Eva Green", and many others.

Cleaning num_critic_for_reviews

This screenshot shows the Microsoft Excel interface with the 'Table Design' ribbon tab selected. A dropdown menu is open over the 'color' column header, specifically over the 'Blanks' option under 'Number Filters'. The table contains movie data with various columns like director_name, num_critic_for_reviews, duration, etc.

This screenshot shows the Microsoft Excel interface with the 'Table Design' ribbon tab selected. A context menu is open over the 'color' column header, showing options like Cut, Copy, Paste Options, Paste Special, Insert Row, Delete Row, Clear Cognets, Format Cells, Row Height, Hide, and Unhide.

Cleaning Gross blanks

Screenshot of Microsoft Excel showing the 'Table Design' ribbon tab selected. A context menu is open over a cell in column H, specifically over the 'gross' header. The menu path 'Paste Options' > 'Paste Special...' is highlighted. The 'Values' option is selected in the 'Paste' dropdown. Other options like 'Text' and 'Formulas' are also visible.

G3	D	E	F	G	H	I	J	K	L	M	N	O	P
	duration	director_facebook_likes	actor_3_facebook_likes	actor_2_name	actor_1_facebook_likes	gross	genres	actor_1_name	movie_title	num_voted_user	cast_total_facebook_likes	actor_3_name	facenumber_imdb
2	178	0	855	Joel David N	1000	Orlando Blo	Sort Smallest to Largest	Action Ad CCH Pounder	Avatar	886204	4834	Wes Studi	
3	169	563	1000	Rory Kinnear	161	Orlando Blo	Sort Largest to Smallest	Action Ad Johnny Depp	Pirates of the I	471220	48350	Jack Davenport	
4	148	0	23000	Christian Ba	Sort by Color	Action Ad Christoph Waltz	Spectre	Action Thi Tom Hardy	The Dark Knight	1144337	11700	Stephanie Sigman	
5	164	22000	530	Samantha M	>	Action Ad Daryl Sabara	John Carter	Action Thi Tom Hardy	Tangled	212204	106759	Joseph Gordon-Le	
6	132	475	4000	James Franc	>	Action Ad J.K. Simmons	Spider-Man 3	Action Thi Tom Hardy	Men in Black	383056	1873	Polly Walker	
7	156	0	284	Donna Mur	>	Action Ad Chris Hemsworth	Avengers: Age	Action Ad Chris Hemsworth	Titanic	294810	46055	Kirsten Dunst	
8	100	15	19000	Robert Dow	>	Action Ad Alan Rickman	Harry Potter ai	Action Ad Henry Cavill	Batman v Supe	462669	2036	M.C. Gainey	
9	141	0	10000	Daniel Radcl	>	Action Ad Henry Cavill	Superman Ret	Action Ad Kevin Spacey	Quantum of Sc	321795	92000	Scarlett Johansson	
10	153	282	2000	Lauren Coha	>	Action Ad Giancarlo Giannini	Pirates of the I	Action Ad Giancarlo Giannini	Men in Black 3	371639	58753	Rupert Grint	
11	183	0	903	Marlon Brar	>	Action Ad Johnny Depp	Man of Steel	Action Ad Johnny Depp	Men in Black 3	24450	106759	Alan D. Purvin	
12	169	0	393	Mathieu Am	>	Action Ad Peter Dinklage	The Chronicles	Action Ad Johnny Depp	Batman v Supe	240396	29991	Frank Langella	
13	106	395	1000	Orlando Blo	>	Action Ad Chris Hemsworth	The Avengers	Action Ad Henry Cavill	Titanic	330784	2023	Rory Kinnear	
14	151	563	1000	Ruth Wilson	>	Action Ad Johnny Depp	Pirates of the I	Action Ad Johnny Depp	Men in Black 3	522040	48486	Jack Davenport	
15	150	563	748	Christopher	>	Action Ad Johnny Depp	The Lone Rang	Action Ad Johnny Depp	Batman v Supe	181792	45757	Tom Wilkinson	
16	143	0	201	Pierfrancesc	>	Action Ad Henry Cavill	Man of Steel	Action Ad Henry Cavill	Titanic	548573	20495	Harry Lennix	
17	150	80	19000	Robert Dow	>	Action Ad Peter Dinklage	The Chronicles	Action Ad Peter Dinklage	Men in Black	149922	22697	Damian Alcazar	
18	173	0	10000	Sam Claffin	>	Action Ad Chris Hemsworth	The Avengers	Action Ad Chris Hemsworth	Men in Black	995415	87697	Scarlett Johansson	
19	136	252	718	Michael Stul	>	Action Ad Johnny Depp	Pirates of the I	Action Ad Johnny Depp	Men in Black 3	370704	54083	Stephen Graham	
20	106	188	773	Adam Brown	>	Action Ad Will Smith	Men in Black 3	Action Ad Will Smith	Batman v Supe	268154	12572	Nicole Scherzinger	
21	164	0	963	Andrew Gar	>	Action Ad Aidan Turner	The Hobbit: Th	Action Ad Aidan Turner	Titanic	354228	9152	James Nesbitt	
22	153	464	738	William Hurt	>	Action Ad Emma Stone	The Amazing S	Action Ad Emma Stone	Men in Black 3	451803	28489	Chris Zylka	
23	156	0	773	Adam Brown	>	Action Ad Mark Addy	Robin Hood	Action Ad Mark Addy	Batman v Supe	211765	3244	Scott Grimes	
24	186	0	1000	Eva Green	>	Action Ad Aidan Turner	The Hobbit: Th	Action Ad Aidan Turner	Men in Black	483540	9152	James Nesbitt	
25	113	129	84	Thomas Kretschm	>	Action Ad Christopher Lee	The Golden Co	Action Ad Christopher Lee	Batman v Supe	149019	24106	Kristin Scott Thor	
26	201	0	6000	Naomi Watts	>	Action Ad Naomi Watts	King Kong	Action Ad Naomi Watts	Titanic	316018	7123	Evon Parke	
27	194	0	29000	Kate Winslet	>	Action Ad Leonardo DiCaprio	DiCapri TitaniC	Action Ad Leonardo DiCaprio	Men in Black 3	793059	45223	Gloria Stuart	
28	142	0	24000	Edgar Ramírez	>	Action Ad Cate Blanchett	Angels & Demons	Action Ad Cate Blanchett	Batman v Supe	333670	64700	Cloris Leachman	

Screenshot of Microsoft Excel showing the 'Table Design' ribbon tab selected. A context menu is open over a cell in column H, specifically over the 'gross' header. The 'Paste Options' > 'Paste Special...' path is highlighted. The 'Text' option is selected in the 'Paste' dropdown. Other options like 'Values' and 'Formulas' are also visible.

G3	D	E	F	G	H	I	J	K	L	M	N	O	P
	duration	director_facebook_likes	actor_3_facebook_likes	actor_2_name	actor_1_facebook_likes	gross	genres	actor_1_name	movie_title	num_voted_users	cast_total_facebook_likes	actor_3_name	facenumber_imdb
48	3	18	Greg Arnonowitz	26	Biography	Taliessin Jaffe	The Image Rev	66	70	Jeff Dowd			
49	3	69	Paul Enoorn	695	Drama	Jan Haley	This Is Martin I	733	1438	Demetrius Grosse			
50	117	281	Jon Gries	948	Comedy	Katrina Bowden	A True Story	181	2058	Kelen Coleman			
51	0	279	Johnny Walter	883	Drama	Sci Barry Corbin	Dawn of the C	34	2618	Shiree Nelson			
52	14	130	Thomas Brophy	252	Horror	Elissa Dowling	Raymond Did I	192	619	Lindsay Felton			
53	26	3	Kate Dollenmayer	26	Comedy	Andrew Bujalski	Mutual Apprec	1578	638	Ronee Collins			
54	2	0	Ron Gehr	5	Horror	Nichole Calibbos	Her Cry: La Llo	23	38	Justin Rice			
55	26	3	Kate Dollenmayer	26	Comedy	Andrew Bujalski	Funny Ha Ha	1894	5	Parker Riggs			
56	3	42	Panchito Gómez	93	Drama	Fai Franky G	Manito	493	40	Justin Rice			
57	892	492	Katherine Isabelle	986	Action	Cri Matt Frewer	Rampage	15091	2423	Casper Martinez			
58	0	9	Mikael Bates	313	Crime	Dra Jasa Ferme	Dutch Kill	57	3197	Michael Paré			
59	138	138	Suzi Lorraine	370	Comedy	R Kristen Stevne	Dry Spell	114	366	Damon Owlia			
60	589	4	Lisa Arnold	51	Drama	Shannen Fields	Flywheel	2986	841	Travis Legge			
61	158	265	Brittany Curran	630	Horror	M Ashley Tramont	Exeter	3836	108	Janet Lee Dapper			
62	8	8	Alana Kaniewski	720	Drama	H Robbie Barnes	The Ridges	125	2679	Lindsay MacDona			
63	158	86	Jason Trost	407	Drama	Paul Ogola	Stories of Our	70	770	Brandon Landers			
64	83	0	Michael Parle	10	Sci-Fi	Thri Sean Whalen	All Superheroe	1771	674	Nick Prince			
65	84	12	Michael Cortez	21	Horror	Patrick O'Donnell	Tin Can Man	57	15	Emma Eliza Regar			
66	82	84	Joe Coffey	785	Drama	Tatiana Suarez-Pi	On the Downk	156	62	Eric Ambriz			
67	98	3	Stanley B. Hermar	789	Comedy	Julianna Pitt	Sanctuary: Qui	133	1111	John Lucas			
68	84	2	John Considine	45	Crime	Dra Peter Greene	Bang	438	1186	James Noble			
69	87	2	Daphne Zuniga	637	Crime	Dra Richard Jewell	The Mongol Ki	36	93	Sara Stepnicka			
70	76	0	Maxwell Moody	0	Comedy	E Eric Mabius	Signed Sealed	629	2283	Crystal Lowe			
71	0	0			Drama	Hc Eva Boehne	A Plague So Pl	38	0	David Chandler			

Cleaning Language blanks

Screenshot of Microsoft Excel showing the 'Table Design' ribbon tab selected. A dropdown menu is open over a cell containing the word 'Blank'. The dropdown lists various language codes: Romanian, Russian, Spanish, Swedish, Telugu, Thai, Vietnamese, and Zulu. The 'Blank' option is checked.

	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	cast_total_facebook_likes	actor_3_name	facenumber_in_poste	plot_keywords	movie_imdb_link	num_user_for_review	language	country	content_rating	budget	title_year	actor_2_facebook_likes	imdb_score
2	4834 Wes Studi	0	avatar future ma	http://www.i	11	0	Sort A to Z	USA	PG-13	2.37E+08	2009	936	7.9
3	48350 Jack Davenport	0	goddess marrige	http://www.i	12	0	Sort Z to A	USA	PG-13	3E+08	2007	5000	7.1
4	11700 Stephanie Sigman	1	bomb espionage	http://www.i	13	0	Sort Z to A	UK	PG-13	2.45E+08	2015	393	6.8
5	106759 Joseph Gordon-Le	0	deception impisc	http://www.i	14	0	Sort by Color	USA	PG-13	2.5E+08	2012	23000	8.5
6	1873 Polly Walker	1	alien american ci	http://www.i	15	0	Sort by Color	USA	PG-13	2.64E+08	2012	632	6.6
7	46055 Kirsten Dunst	0	sandman spider n	http://www.i	16	0	Sheet View	USA	PG-13	2.58E+08	2007	11000	6.2
8	12036 M.C. Gainey	1	17th century base	http://www.i	17	0	Clear Filter From "language"	USA	PG	2.6E+08	2010	553	7.8
9	92000 Scarlett Johansson	4	artificial intellige	http://www.i	18	0	Filter by Color	USA	PG-13	2.5E+08	2015	21000	7.5
10	58753 Rupert Grin	3	blood book love	http://www.i	19	0	Text Filters	UK	PG	2.5E+08	2009	11000	7.5
11	24450 Alan D. Purwin	0	based on comic bi	http://www.i	20	0	Search	USA	PG-13	2.5E+08	2016	4000	6.9
12	29991 Frank Langella	0	crystal epic lex	http://www.i	21	0	OK	USA	PG-13	2.09E+08	2006	10000	6.1
13	2023 Rory Kinnear	1	action hero atten	http://www.i	22	0	Cancel	USA	PG-13	2E+08	2008	412	6.7
14	48486 Jack Davenport	2	box office hit gir	http://www.i	23	0		USA	PG-13	2.25E+08	2006	5000	7.3
15	45757 Tom Wilkinson	1	horse outlaw tex	http://www.i	24	0		USA	PG-13	2.15E+08	2013	2000	6.5
16	20495 Harry Lennix	0	based on comic bi	http://www.i	25	0		USA	PG-13	2.25E+08	2013	3000	7.2
17	22697 DamlaÅžin AlÅžizar	4	brother brother re	http://www.i	26	0		USA	PG	2.25E+08	2008	216	6.6
18	87697 Scarlett Johansso	3	alien invasion ass	http://www.i	27	0		USA	PG-13	2.2E+08	2012	21000	8.1
19	54083 Stephen Graham	4	blackbeard cappa	http://www.i	28	0		USA	PG-13	2.5E+08	2011	11000	6.7
20	12572 Nicole Scherzinge	1	alien criminal m	http://www.i	29	0		USA	PG-13	2.25E+08	2012	816	6.8
21	9152 James Nesbitt	0	army elf hobbit l	http://www.i	30	0		New Zeala	PG-13	2.5E+08	2014	972	7.5
22	28489 Chris Zylka	0	lizard outcast spi	http://www.i	31	0		USA	PG-13	2.3E+08	2012	10000	7
23	3244 Scott Grimes	0	1190s archer eng	http://www.i	32	0		USA	PG-13	2E+08	2010	882	6.7
24	9152 James Nesbitt	6	dwarf elf lake	http://www.i	33	0		USA	PG-13	2.25E+08	2013	972	7.9
25	24106 Kristin Scott Thor	2	children epic frie	http://www.i	34	0		USA	PG-13	1.8E+08	2007	6000	6.1
26	7123 Evan Parke	0	animal name tit	http://www.imdb.c	35	0		New Zeala	PG-13	2.07E+08	2005	919	7.2
27	45223 Gloria Stuart	0	artist love ship t	http://www.imdb.c	36	0		USA	PG-13	2E+08	1997	14000	7.7
		0	hobbit middle earth	http://www.imdb.c	37	0		USA	PG-13	3.5E+09	2004	10000	6.2

Screenshot of Microsoft Excel showing the 'Table Design' ribbon tab selected. A context menu is open over a cell containing the word 'Carr'. The menu includes options like Cut, Copy, Paste Options, Paste Special, Insert Row, Delete Row, Clear Cognets, Format Cells, Row Height, Hide, and Unhide.

	P	Q	R	S	T	U	V	W	X	Y	Z	
3	me	facenumber_in_poste	plot_keywords	movie_imdb_link	num_user_for_review	language	country	content_rating	budget	title_year	actor_2_facebook_likes	imdb_score
4	3244 Scott Grimes	0	massacre imorno	http://www.imdb.c	11	0	USA	R	11000000	2007	362	5.8
5	9152 James Nesbitt	0	19th century faith	http://www.imdb.c	12	0	USA	PG	3000000	2006	366	7.2
6	7123 Evan Parke	1	family relationship	http://www.imdb.c	13	0	USA	PG	100000	1920	2	4.8

Cleaning Budget blanks

Screenshot of Microsoft Excel showing the 'IMDB_Movies' table. A context menu is open over the 'budget' column, specifically targeting the blank cell at row 27. The menu path 'Paste Options' -> 'Blanks' is highlighted.

The table contains 34,007 rows of movie data. The 'budget' column includes numerical values and several blank entries. The 'title_year' column shows years from 2009 to 2016. Other columns include facenumber_imdb_poster, plot_keywords, movie_imdb_link, num_user_for_reviews, language, country, content_rating, actor_2_facebook_likes, imdb_score, aspect_ratio, and movie_facebook_likes.

Screenshot of Microsoft Excel showing the 'IMDB_Movies' table. A context menu is open over the 'budget' column, specifically targeting the blank cell at row 27. The menu path 'Paste Options' -> 'Blanks' is highlighted.

The table contains 34,007 rows of movie data. The 'budget' column includes numerical values and several blank entries. The 'title_year' column shows years from 2005 to 2012. Other columns include facenumber_imdb_poster, plot_keywords, movie_imdb_link, num_user_for_reviews, language, country, content_rating, actor_2_facebook_likes, imdb_score, aspect_ratio, and movie_facebook_likes.

b. Cleaning Unnecessary Column:

There are a lot of unnecessary column which are of no use in this analysis. Its better to remove the column as it is just cluttering the data. For convenience I am deleting it.

Columns like Color, director_facebook_likes, actor_3_facebook_likes, actor_2_name, actor_1_facebook_likes, actor_1_name, cast_total_facebook_likes, actor_3_name, facenumber_in_posted, actor_2_facebook_likes, aspect_ratio, movie_facebook_likes.

The screenshot shows the Microsoft Excel interface with the 'IMDB_Movies' sheet selected. A context menu is open over the first few rows of data, specifically over the 'director_facebook_likes' column. The menu includes options for cutting, copying, pasting, inserting, deleting, and formatting cells. The 'Paste Options' submenu is visible, showing options like 'Cut', 'Copy', and 'Paste Special...'. The main menu also includes 'Insert', 'Delete', 'Clear Cognates', 'Format Cells...', 'Column Width...', 'Hide', and 'Unhide'.

This screenshot is similar to the one above, showing the Microsoft Excel interface with the 'IMDB_Movies' sheet selected. A context menu is open over the first few rows of data, specifically over the 'director_facebook_likes' column. The menu includes options for cutting, copying, pasting, inserting, deleting, and formatting cells. The 'Paste Options' submenu is visible, showing options like 'Cut', 'Copy', and 'Paste Special...'. The main menu also includes 'Insert', 'Delete', 'Clear Cognates', 'Format Cells...', 'Column Width...', 'Hide', and 'Unhide'.

IMDB_Movies

A context menu is open over the first row of the table, showing options like Cut, Copy, Paste Options..., Format Cells..., Insert, Delete, and Format.

Table Headers:

- D1: director_name • num_critic_for_reviews • duration • actor_3_facebook_likes • actor_2_name • actor_1_facebook_likes
- I1: i_name • movie_title • num_voted_user • cast_total_facebook_likes • actor_3_name

Data Preview:

director_name	num_critic_for_reviews	duration	actor_3_facebook_likes	actor_2_name	actor_1_facebook_likes	i_name	movie_title	num_voted_user	cast_total_facebook_likes	actor_3_name
James Cameron	723	178	855	Joel David Moore		Pounder	Avatar	886204	4834	Wes Studi
Gore Verbinski	302	169	1000	Orlando Bloom		Depp	Pirates of the C	471220	48350	Jack Davenport
Sam Mendes	602	148	161	Rory Kinnear		Waltz	Spectre	275868	11700	Stephanie Sigman
Christopher Nolan	813	164	23000	Christian Bale		Hardy	The Dark Knight	1144337	106759	Joseph Gordon-Levitt
Andrew Stanton	462	132	530	Samantha Morton		Sabara	John Carter	212204	1873	Polly Walker
Sam Raimi	392	156	4000	James Franco		Monroe	Spider-Man 3	383056	46055	Kirsten Dunst
Nathan Greno	324	100	284	Donna Murphy		Karratt	Tangled	294810	2036	M.C. Gainey
Joss Whedon	635	141	19000	Robert Downey Jr		Templeton	Avengers: Age	462669	92000	Scarlett Johansson
David Yates	375	153	10000	Daniel Radcliffe		Evickman	Harry Potter and the	321795	58753	Rupert Grint
Zack Snyder	673	183	2000	Lauren Cohan		Cavill	Batman v Superman: Dawn of Justice	371639	24450	Alan D. Purvin
Bryan Singer	434	169	903	Marlon Brando		Spacey	Superman Returns	240396	29991	Frank Langella
Marc Forster	403	106	393	Mathieu Amalric		Giannini	Quantum of Solace	330784	2023	Rory Kinnear
Gore Verbinski	313	151	1000	Orlando Bloom		Depp	Pirates of the Caribbean: On Stranger Tides	522040	48486	Jack Davenport
Gore Verbinski	450	150	1000	Ruth Wilson		Depp	The Lone Ranger	181792	45757	Tom Wilkinson
Zack Snyder	733	143	748	Christopher Meloni		Cavill	Man of Steel	548573	20495	Harry Lennix
Andrew Adamson	258	150	201	Pierfrancesco Favino		Dinklage	The Chronicles of Narnia: Prince Caspian	149922	22697	Damián Alcázar
Joss Whedon	703	173	19000	Robert Downey Jr		Hemsworth	The Avengers	995415	87697	Scarlett Johansson
Rob Marshall	448	136	1000	Sam Clafin		Depp	Pirates of the Caribbean: Dead Men Tell No Tales	370704	54083	Stephen Graham
Barry Sonnenfeld	451	106	718	Michael Stuhlbarg		With	Men in Black 3	268154	12572	Nicole Scherzinger
Peter Jackson	422	164	773	Adam Brown		With	The Hobbit: The Desolation of Smaug	354228	9152	James Nesbitt
Marc Webb	599	153	963	Andrew Garfield		With	The Hobbit: The Desolation of Smaug	451803	28489	Chris Zylka
Ridley Scott	343	156	738	William Hurt		With	The Hobbit: The Desolation of Smaug	211765	3244	Scott Grimes
Peter Jackson	509	186	773	Adam Brown		With	The Hobbit: The Desolation of Smaug	483540	9152	James Nesbitt
Chris Weitz	251	113	1000	Eva Green		With	The Hobbit: The Desolation of Smaug	149019	24106	Kristin Scott Thomas
Peter Jackson	446	201	84	Thomas Kretschmann		With	The Hobbit: The Desolation of Smaug	316018	7123	Evan Parke
James Cameron	315	194	794	Kate Winslet		With	The Hobbit: The Desolation of Smaug	793059	45223	Gloria Stuart
Christopher Nolan	746	147	142000	Freida Pinto		With	The Hobbit: The Desolation of Smaug	232370	64308	Cloris Leachman

IMDB_Movies

A context menu is open over the first row of the table, showing options like Cut, Copy, Paste Options..., Format Cells..., Insert, Delete, and Format.

Table Headers:

- F1: director_name • num_critic_for_reviews • duration • gross • genres • actor_1_name
- I1: i_name • cast_total_facebook_likes • actor_3_name • facenumber_in_poste • plot_keywords • movie_imdb_id • num

Data Preview:

director_name	num_critic_for_reviews	duration	gross	genres	actor_1_name	i_name	cast_total_facebook_likes	actor_3_name	facenumber_in_poste	plot_keywords	movie_imdb_id	num
James Cameron	723	178	760508749	Action Ad	CCH Pounder	Avatar	4834	Wes Studi	0	avatar future ma	http://www.imdb.com/title/tt0120837/	1
Gore Verbinski	302	169	309404152	Action Ad	Johnny Depp	Jack the Giant Slayer	48350	Jack Davenport	1	goddess mariage	http://www.imdb.com/title/tt2620306/	1
Sam Mendes	602	148	141	Action Ad	Johnny Depp	Spectre	11700	Stephanie Sigman	1	bomb espionage	http://www.imdb.com/title/tt275868/	1
Christopher Nolan	813	164	448130642	Action Th	Tom Hardy	The Dark Knight	1144337	Joseph Gordon-Levitt	1	deception imprise	http://www.imdb.com/title/tt1144337/	1
Andrew Stanton	462	132	73058679	Action Ad	Daryl Sabara	John Carter	12204	Polymer Grint	1	alien american	http://www.imdb.com/title/tt12204/	1
Sam Raimi	392	156	33650303	Action Ad	J.K. Simmons	Men in Black 3	268154	Nicole Scherzinger	1	sandman spider	http://www.imdb.com/title/tt12204/	1
Nathan Green	324	106	200807262	Adventure	Brad Garrett	The Hobbit: The Desolation of Smaug	354228	James Nesbitt	1	17th century base	http://www.imdb.com/title/tt12204/	1
Joss Whedon	635	141	458991599	Action Ad	Chris Hemsworth	Spider-Man 3	451803	Chris Zylka	1	artificial intellige	http://www.imdb.com/title/tt0915217/	1
David Yates	375	153	301956980	Adventure	Alain Rickards	The Hobbit: The Desolation of Smaug	211765	Tom Wilkinson	1	blood book love	http://www.imdb.com/title/tt0891176/	1
Zack Snyder	673	183	330249062	Action Ad	Henry Cavill	The Hobbit: The Desolation of Smaug	483540	Kristin Scott Thomas	1	based on comic bi	http://www.imdb.com/title/tt12204/	1
Bryan Singer	434	169	200069408	Action Ad	Kevin Spacey	The Hobbit: The Desolation of Smaug	149922	Stephen Graham	1	blackbeard capta	http://www.imdb.com/title/tt12204/	1
Marc Forster	403	106	168368427	Action Ad	Giancarlo Esposito	The Hobbit: The Desolation of Smaug	995415	Scarlett Johansson	1	alien criminal m.	http://www.imdb.com/title/tt12204/	1
Gore Verbinski	313	151	423032628	Action Ad	Johnny Depp	The Hobbit: The Desolation of Smaug	370704	Evan Parke	1	army eff hobbit t	http://www.imdb.com/title/tt12204/	1
Gore Verbinski	450	150	89289910	Action Ad	Johnny Depp	The Hobbit: The Desolation of Smaug	22040	James Nesbitt	1	box office hit jpar	http://www.imdb.com/title/tt12204/	1
Zack Snyder	733	143	291021565	Action Ad	Henry Cavill	The Hobbit: The Desolation of Smaug	1873	Tom Wilkinson	1	horse outlaw tex	http://www.imdb.com/title/tt12204/	1
Andrew Adamson	258	150	141614023	Action Ad	Peter Dinklage	The Hobbit: The Desolation of Smaug	48573	Stephanie Sigman	0	based on comic bi	http://www.imdb.com/title/tt12204/	1
Joss Whedon	703	173	623279547	Action Ad	Chris Hemsworth	The Hobbit: The Desolation of Smaug	95415	Scarlett Johansson	4	brother brother re	http://www.imdb.com/title/tt12204/	1
Rob Marshall	448	132	241063875	Action Ad	Johnny Depp	The Hobbit: The Desolation of Smaug	70704	James Nesbitt	3	alien invasion ass	http://www.imdb.com/title/tt12204/	1
Barry Sonnenfeld	451	106	179020854	Action Ad	Will Smith	The Hobbit: The Desolation of Smaug	68154	Scarlett Johansson	4	blackbeard capta	http://www.imdb.com/title/tt12204/	1
Peter Jackson	422	164	255108370	Adventure	Aidan Turner	The Hobbit: The Desolation of Smaug	9152	James Nesbitt	1	alien criminal m.	http://www.imdb.com/title/tt12204/	1
Peter Jackson	599	153	262030663	Action Ad	Emma Stone	The Hobbit: The Desolation of Smaug	28489	Chris Zylka	0	army eff hobbit t	http://www.imdb.com/title/tt12204/	1
Marc Webb	343	156	105219735	Action Ad	Mark Addy	The Hobbit: The Desolation of Smaug	3244	Scott Grimes	0	lizard outcast spai	http://www.imdb.com/title/tt12204/	1
Ridley Scott	509	186	285355354	Adventure	Aidan Turner	The Hobbit: The Desolation of Smaug	211765	James Nesbitt	0	1190s archer eng	http://www.imdb.com/title/tt12204/	1
Peter Jackson	251	113	70083519	Adventure	Christopher Lee	The Hobbit: The Desolation of Smaug	483540	Scarlett Johansson	6	dwarf elf lake to	http://www.imdb.com/title/tt12204/	1
Peter Jackson	446	201	210812060	Action Ad	Naomi Watts	The Hobbit: The Desolation of Smaug	149019	Kristin Scott Thomas	2	children epic frie	http://www.imdb.com/title/tt12204/	1
Peter Jackson	315	194	658672302	Drama Rd	Leonardo DiCaprio	The Hobbit: The Desolation of Smaug	316018	Evan Parke	0	animal name in tit	http://www.imdb.com/title/tt12204/	1
Christopher Nolan	746	147	42746240383	Action Th	Robert Downey Jr.	The Hobbit: The Desolation of Smaug	793059	Gloria Stuart	0	artist love ship t	http://www.imdb.com/title/tt12204/	1

IMDB_Movies

	A	B	C	D	E	F	G	H	I	J	K	M
1	director_name	num_critic_for_reviews	duration	gross	genres	movie_title	num_voted_user	cast_total_facebook_likes	actor_3_name	facenumber_in_poster		
2	James Cameron	723	178	760505847	Action Ad Avatar	4886204	4834	Wes Studi				
3	Gore Verbinski	302	169	309404152	Action Ad Pirates of the C	471220	48350	Jack Davenport				
4	Sam Mendes	602	148	200074175	Action Ad Pirates of the I	275868	11700	Stephanie Sigman				
5	Christopher Nolan	813	164	448130642	Action The Dark Knight	1144337	106759	Joseph Gordon-Le				
6	Andrew Stanton	462	132	73058679	Action John Carter	212204	1873	Polly Walker				
7	Sam Raimi	392	156	336530303	Action Ad Spider-Man 3	383056	46055	Kirsten Dunst				
8	Nathan Greno	324	100	200807262	Adventure Tangled	294810	2036	M.C. Gainey				
9	Joss Whedon	635	141	458991599	Action Ad Avengers: Age	462669	92000	Scarlett Johansson				
10	David Yates	375	153	301956980	Adventure Harry Potter &	321795	58753	Rupert Grint				
11	Zack Snyder	673	183	330249062	Action Ad Batman v Supe	371639	24450	Alan D. Purvin				
12	Bryan Singer	434	168	200069408	Action Ad Superman Reti	240396	29991	Frank Langella				
13	Marc Forster	403	106	168368427	Action Ad Quantum of Sc	330784	2023	Rory Kinnear				
14	Gore Verbinski	313	151	423032628	Action Ad Pirates of the C	522040	48486	Jack Davenport				
15	Gore Verbinski	450	150	89289910	Action Ad The Lone Ranger	181792	45757	Tom Wilkinson				
16	Zack Snyder	733	143	291021565	Action Ad Man of Steel	548573	20495	Harry Lennix				
17	Andrew Adamson	258	150	141614023	Action Ad The Chronicles	149922	22697	Damian Alcazar				
18	Joss Whedon	703	173	623279547	Action Ad The Avengers	995415	87697	Scarlett Johansson				
19	Rob Marshall	448	134	241063875	Action Ad Pirates of the C	370704	54083	Stephen Graham				
20	Barry Sonnenfeld	451	100	179020854	Action Ad Men in Black 3	268154	12572	Nicole Scherzinger				
21	Peter Jackson	422	164	255108370	Adventure The Hobbit: Th	354228	9152	James Nesbitt				
22	Marc Webb	599	153	262030663	Action Ad The Amazing S	451803	28489	Chris Zylka				
23	Ridley Scott	343	156	105219735	Action Ad Robin Hood	211765	3244	Scott Grimes				
24	Peter Jackson	509	186	205835534	Adventure The Hobbit: Th	483540	9152	James Nesbitt				
25	Chris Weitz	251	113	70083519	Adventure The Golden Co	149019	24106	Kristin Scott Thor				
26	Peter Jackson	446	201	218051260	Action Ad King Kong	316018	7123	Evan Parke				
27	James Cameron	315	194	658672302	Drama Ro Titanic	793059	45223	Gloria Stuart				
28	James Cameron	546	147	463162890	Action Ad Avatar	333260	100000	Sam Worthington				

IMDB_Movies

	D	E	F	G	H	I	J	K	L	M	P	Q	R	
1	gross	genres	movie_title	num_voted_user	plot_keywords	movie_imdb_link	num_user_for_review	language	country	content_rating	r	actor_2_facebook_likes	imdb_score	aspect_ratio
2	76050847	Action Ad Avatar	4886204	avatarm future ma	http://www.imdb.c	3054	English	USA			009	936	7.9	1.78
3	309404152	Action Ad Pirates of the C	471220	goddess marrige	http://www.imdb.c	1238	English	USA			007	5000	7.1	2.35
4	200074175	Action Ad Spectre	275868	bomb espionage	http://www.imdb.c	994	English	UK			015	393	6.8	2.35
5	448130642	Action The Dark Knight	1144337	deception imprise	http://www.imdb.c	2701	English	USA			012	23000	8.5	2.35
6	73058679	Action Ad John Carter	212204	alien american	http://www.imdb.c	738	English	USA			012	632	6.6	2.35
7	336530303	Action Ad Spider-Man 3	383056	sandman spider	http://www.imdb.c	1902	English	USA			007	11000	6.2	2.35
8	200807262	Adventure Tangled	294810	17 century base	http://www.imdb.c	387	English	USA			010	553	7.8	1.85
9	458991599	Action Ad Avengers: Age	462669	artificial intellige	http://www.imdb.c	1117	English	USA			015	21000	7.5	2.35
10	301956980	Adventure Harry Potter &	321795	blood book love	http://www.imdb.c	973	English	UK			009	11000	7.5	2.35
11	330249062	Action Ad Batman v Supe	371639	based on comic	http://www.imdb.c	3018	English	USA			016	4000	6.9	2.35
12	200069408	Action Ad Superman Reti	240396	crystal epic lex lu	http://www.imdb.c	2367	English	USA			006	10000	6.1	2.35
13	168368427	Action Ad Quantum of Sc	330784	action hero atten	http://www.imdb.c	1243	English	UK			008	412	6.7	2.35
14	423032628	Action Ad Pirates of the C	522040	box office hit jai	http://www.imdb.c	1832	English	USA			006	5000	7.3	2.35
15	89289910	Action Ad The Lone Ranger	181792	horse outlaw tex	http://www.imdb.c	711	English	USA			013	2000	6.5	2.35
16	291021565	Action Ad Man of Steel	548573	based on comic	http://www.imdb.c	2556	English	USA			013	3000	7.2	2.35
17	14614023	Action Ad The Chronicles	149922	brother brother re	http://www.imdb.c	438	English	USA			008	216	6.6	2.35
18	632279547	Action Ad The Avengers	995415	alien invasion ass	http://www.imdb.c	1722	English	USA			012	21000	8.1	1.85
19	241063875	Action Ad Pirates of the I	370704	blackbeard capta	http://www.imdb.c	484	English	USA			011	11000	6.7	2.35
20	179020854	Action Ad Men in Black 3	268154	alien criminal m.	http://www.imdb.c	341	English	USA			012	816	6.8	1.85
21	255108370	Adventure The Hobbit: Th	354228	army elf hobbit	http://www.imdb.c	802	English	New Zealand	PG-13	250000000	2014	972	7.5	2.35
22	262030663	Action Ad The Amazing S	451803	lizard outcast sp	http://www.imdb.c	1225	English	USA	PG-13	230000000	2012	10000	7	2.35
23	105219735	Action Ad Robin Hood	211765	1190s archer eng	http://www.imdb.c	546	English	USA	PG-13	200000000	2010	882	6.7	2.35
24	258355354	Adventure The Hobbit: Th	483540	dwarf elf lake to	http://www.imdb.c	951	English	USA	PG-13	225000000	2013	972	7.9	2.35
25	70083519	Adventure The Golden Co	149019	children epic frie	http://www.imdb.c	666	English	USA	PG-13	180000000	2007	6000	6.1	2.35
26	218051260	Action Ad King Kong	316018	animal name in tit	http://www.imdb.c	2618	English	New Zealand	PG-13	207000000	2005	919	7.2	2.35
27	658672302	Drama Ro Titanic	793059	artist love ship t	http://www.imdb.c	2528	English	USA	PG-13	200000000	1997	14000	7.7	2.35
28	658672302	Drama Ro Titanic	333260	based on book f	http://www.imdb.c	323	English	USA	PG-13	260000000	2016	10000	8.3	2.35

IMDB_Movies

	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	num_voted_user	-	plot_keyword	-	movie_imdb_id	-	num_user_for_review	-	language	-	country	-	budget	-	title_year
2	886204	avatar future ma	http://www.imdb.cc		3054	English	USA	237000000	2009	7.9	1.78	33000			
3	471220	goddess mariage	http://www.imdb.cc		1238	English	USA	300000000	2007	7.1	2.35	0			
4	275868	bomb espionage	http://www.imdb.cc		994	English	UK	245000000	2015	6.8	2.35	85000			
5	1144337	deception impris	http://www.imdb.cc		2701	English	USA	25000000	2012	8.5	2.35	164000			
6	212204	alien american	http://www.imdb.cc		738	English	USA	263700000	2012	7.2	2.35	240000			
7	383056	sandman spider	http://www.imdb.cc		1902	English	USA	258000000	2007	6.2	2.35	0			
8	294810	17th century base	http://www.imdb.cc		387	English	USA	260000000	2010	7.8	1.85	290000			
9	462669	artificial intelligen	http://www.imdb.cc		1117	English	USA	250000000	2015	6.1	2.35	118000			
10	321793	blood book love	http://www.imdb.cc		973	English	USA	250000000	2009	7.9	2.35	100000			
11	371639	based on comic b	http://www.imdb.cc		3018	English	USA	250000000	2016	7.2	2.35	197000			
12	240396	crystal epic lex k	http://www.imdb.cc		2367	English	USA	209000000	2006	6.6	2.35	0			
13	330784	action hero attaen	http://www.imdb.cc		1243	English	USA	200000000	2008	6.1	2.35	0			
14	522040	box office hit gia	http://www.imdb.cc		1832	English	USA	225000000	2006	7.2	2.35	5000			
15	181792	horse outlaw tex	http://www.imdb.cc		711	English	USA	215000000	2013	6.9	2.35	48000			
16	548573	based on comic b	http://www.imdb.cc		2536	English	USA	225000000	2013	7.5	2.35	118000			
17	149922	brother brother r	http://www.imdb.cc		438	English	USA	225000000	2008	6.7	2.35	0			
18	995415	alien invasion ass	http://www.imdb.cc		1722	English	USA	220000000	2012	7.2	2.35	123000			
19	370704	blackbeard capt	http://www.imdb.cc		484	English	USA	250000000	2011	6.6	2.35	58000			
20	268154	alien criminal m	http://www.imdb.cc		341	English	USA	225000000	2012	7.2	2.35	40000			
21	354228	army elf hobbit	http://www.imdb.cc		802	English	New Zeala	250000000	2014	972	1.85	65000			
22	451803	lizard outcast sp	http://www.imdb.cc		1225	English	USA	230000000	2012	10000	7	2.35	56000		
23	211765	1190s archer eng	http://www.imdb.cc		546	English	USA	200000000	2010	882	6.7	2.35	17000		
24	483540	dwarf elf lake to	http://www.imdb.cc		951	English	USA	225000000	2013	972	7.9	2.35	83000		
25	149019	children epic frie	http://www.imdb.cc		666	English	USA	180000000	2007	6000	6.1	2.35	0		
26	316018	animal name th	http://www.imdb.cc		2618	English	New Zeala	207000000	2005	919	7.2	2.35	0		
27	793059	artist love shop t	http://www.imdb.cc		2528	English	USA	200000000	1997	14000	7.7	2.35	26000		
										9999	0.2	2.35	72000		

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1	num_voted_user	-	plot_keyword	-	movie_imdb_id	-	num_user_for_review	-	language	-	country	-	budget	-	title_year
2	886204	avatar future ma	http://www.imdb.cc		3054	English	USA	237000000	2009	7.9	1.78	33000			
3	471220	goddess mariage	http://www.imdb.cc		1238	English	USA	300000000	2007	7.1	2.35	0			
4	275868	bomb espionage	http://www.imdb.cc		994	English	UK	245000000	2015	6.8	2.35	85000			
5	1144337	deception impris	http://www.imdb.cc		2701	English	USA	25000000	2012	8.5	2.35	164000			
6	212204	alien american	http://www.imdb.cc		738	English	USA	263700000	2012	6.6	2.35	240000			
7	383056	sandman spider	http://www.imdb.cc		1902	English	USA	258000000	2007	6.2	2.35	0			
8	294810	17th century base	http://www.imdb.cc		387	English	USA	260000000	2010	7.8	1.85	290000			
9	462669	artificial intelligen	http://www.imdb.cc		1117	English	USA	250000000	2015	7.5	2.35	118000			
10	321793	blood book love	http://www.imdb.cc		973	English	USA	250000000	2009	7.9	2.35	100000			
11	371639	based on comic b	http://www.imdb.cc		3018	English	USA	250000000	2016	6.9	2.35	197000			
12	240396	crystal epic lex k	http://www.imdb.cc		2367	English	USA	209000000	2006	6.1	2.35	0			
13	330784	action hero attaen	http://www.imdb.cc		1243	English	UK	200000000	2008	6.7	2.35	0			
14	522040	box office hit gia	http://www.imdb.cc		1832	English	USA	225000000	2006	7.3	2.35	5000			
15	181792	horse outlaw tex	http://www.imdb.cc		711	English	USA	215000000	2013	6.5	2.35	48000			
16	548573	based on comic b	http://www.imdb.cc		2536	English	USA	225000000	2013	7.2	2.35	123000			
17	149922	brother brother r	http://www.imdb.cc		438	English	USA	225000000	2008	6.6	2.35	58000			
18	995415	alien invasion ass	http://www.imdb.cc		1722	English	USA	220000000	2012	8.1	1.85	0			
19	370704	blackbeard capt	http://www.imdb.cc		484	English	USA	250000000	2011	6.7	2.35	0			
20	268154	alien criminal m	http://www.imdb.cc		341	English	USA	225000000	2012	6.8	1.85	65000			
21	354228	army elf hobbit	http://www.imdb.cc		802	English	New Zeala	250000000	2014	7.5	2.35	56000			
22	451803	lizard outcast sp	http://www.imdb.cc		1225	English	USA	230000000	2012	7	2.35	17000			
23	211765	1190s archer eng	http://www.imdb.cc		546	English	USA	200000000	2010	6.7	2.35	0			
24	483540	dwarf elf lake to	http://www.imdb.cc		951	English	USA	225000000	2013	7.9	2.35	83000			
25	149019	children epic frie	http://www.imdb.cc		666	English	USA	180000000	2007	6.1	2.35	0			
26	316018	animal name th	http://www.imdb.cc		2618	English	New Zeala	207000000	2005	7.2	2.35	0			
27	793059	artist love shop t	http://www.imdb.cc		2528	English	USA	200000000	1997	7.7	2.35	26000			
										9999	0.2	2.35	72000		

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1	num_voted_user	-	plot_keyword	-	movie_imdb_id	-	num_user_for_review	-	language	-	country	-	budget	-	title_year
2	886204	avatar future ma	http://www.imdb.cc		3054	English	USA	237000000	2009	7.9	1.78	33000			
3	471220	goddess mariage	http://www.imdb.cc		1238	English	USA	300000000	2007	7.1	2.35	0			
4	275868	bomb espionage	http://www.imdb.cc		994	English	UK	245000000	2015	6.8	2.35	85000			
5	1144337	deception impris	http://www.imdb.cc		2701	English	USA	25000000	2012	8.5	2.35	164000			
6	212204	alien american	http://www.imdb.cc		738	English	USA	263700000	2012	6.6	2.35	240000			
7	383056	sandman spider	http://www.imdb.cc		1902	English	USA	258000000	2007	6.2	2.35	0			
8	294810	17th century base	http://www.imdb.cc		387	English	USA	260000000	2010	7.8	1.85	290000			
9	462669	artificial intelligen	http://www.imdb.cc		1117	English	USA	250000000	2015	7.5	2.35	118000			
10	321793	blood book love	http://www.imdb.cc		973	English	USA	250000000	2009	7.9	2.35	100000			
11	371639	based on comic b	http://www.imdb.cc		3018	English	USA	250000000	2016	6.9	2.35	197000			
12	240396	crystal epic lex k	http://www.imdb.cc		2367	English	USA	209000000	2006	6.1	2.35	0			
13	330784	action hero attaen	http://www.imdb.cc		1243	English	UK	200000000	2008	6.7	2.35	0			
14	522040	box office hit gia	http://www.imdb.cc		1832	English	USA	225000000	2006	7.3	2.35	5000			
15	181792	horse outlaw tex	http://www.imdb.cc		711	English	USA	215000000	2013	6.5	2.35	48000			
16	548573	based on comic b	http://www.imdb.cc		2536	English	USA	225000000	2013	7.2	2.35	123000			
17	149922	brother brother r	http://www.imdb.cc		438	English	USA	225000000	2008	6.6	2.35	58000			
18	995415	alien invasion ass	http://www.imdb.cc		1722	English	USA	220000000	2012	8.1	1.85	0			
19	370704	blackbeard capt	http://www.imdb.cc		484	English	USA	250000000	2011	6.7	2.35	0			
20	268154	alien criminal m	http://www.imdb.cc		341	English	USA	225000000	2012	6.8	1.85	65000			
21	354228	army elf hobbit	http://www.imdb.cc		802	English	New Zeala	250000000	2014	7.5	2				

c. Removing Duplicate:

I have removed all the duplicate rows with ease.

The screenshot shows the Microsoft Excel interface with the 'IMDB.Movies' worksheet active. The data consists of 1000 rows of movie details. A 'Remove Duplicates' dialog box is overlaid on the data area, specifically targeting the 'color' column. The dialog indicates that one row has been identified as a duplicate. The 'OK' button is visible at the bottom of the dialog. The status bar at the bottom right shows the date as 15-12-2024 and the time as 23:20.

This screenshot is identical to the one above, showing the 'IMDB.Movies' worksheet in Excel. The data table has 1000 rows. A 'Remove Duplicates' dialog box is open, this time targeting the 'color' column. It shows that one row has been identified as a duplicate. The 'OK' button is highlighted. The status bar at the bottom right shows the date as 15-12-2024 and the time as 23:20.

Microsoft Excel

1 duplicate values found and removed: 3852 unique values remain. Note that counts may include empty cells, spaces, etc.

OK

director_name	num_critic_for_review	duration	gross	genres	movie_title	num_voted_user	plot_keywords	movie_imdb_link	num_user_for_review	language	country	budget	title_year	imdb_score	
James Cameron	723	178	760505847	Action Ad Avatar	Avatar	886204	3054	English	USA	23700000	2009	7.9			
Gore Verbinski	302	169	309404152	Action Ad Pirates of the C	Pirates of the Caribbean: On Stranger Tides	471220	1238	English	USA	30000000	2007	7.1			
Sam Mendes	602	148	200074175	Action Ad Spectre	Spectre	275868	994	English	UK	24500000	2015	6.8			
Christopher Nolan	813	164	448130642	Action Thr The Dark Knight	The Dark Knight	1144337	deception impris	http://www.imdb.co	2701	English	USA	25000000	2012	8.5	
Andrew Stanton	462	132	73058679	Action Ad John Carter	John Carter	212204	738	English	USA	26370000	2012	6.6			
Sam Raimi	392	156	336530303	Action Ad Spider-Man 3	Spider-Man 3	383056	sandman spider n	http://www.imdb.co	1902	English	USA	25800000	2007	6.2	
Nathan Greno	324	106	200807262	Adventure Tangled	Tangled	294810	387	English	USA	26000000	2010	7.8			
Joss Whedon	635	141	458991599	Action Ad Thor	Thor	322040	bookface future ma	http://www.imdb.co	1852	English	USA	26000000	2010	7.8	
David Yates	375	153	301956980	Action Ad Harry Potter	Harry Potter and the Prisoner of Azkaban	483540	181792	horse outlaw tex	http://www.imdb.co	711	English	USA	25000000	2015	7.5
Zack Snyder	673	183	330249062	Action Ad The Dark Knight Rises	The Dark Knight Rises	149922	brother brother r	http://www.imdb.co	2536	English	USA	22500000	2013	7.2	
Bryan Singer	434	168	200069408	Action Ad Men in Black 3	Men in Black 3	995415	alien invasion ass	http://www.imdb.co	1722	English	USA	22000000	2012	8.1	
Marc Forster	403	106	168368427	Action Ad Quantum of Solace	Quantum of Solace	370704	blackbeard capt	http://www.imdb.co	484	English	USA	25000000	2011	6.7	
Gore Verbinski	313	151	423032628	Action Ad Pirates of the Caribbean: On Stranger Tides	Pirates of the Caribbean: On Stranger Tides	522040	aliens lif	http://www.imdb.co	341	English	USA	22500000	2012	6.8	
Zack Snyder	450	150	89289910	Action Ad Man of Steel	Man of Steel	548573	based on comic bi	http://www.imdb.co	802	English	New Zeala	25000000	2014	7.5	
Andrew Adamson	258	150	141614023	Action Ad The Chronicles of Narnia: Prince Caspian	The Chronicles of Narnia: Prince Caspian	149922	brother brother r	http://www.imdb.co	1225	English	USA	23000000	2012	6.6	
Joss Whedon	703	173	623279547	Action Ad The Avengers	The Avengers	995415	alien invasion ass	http://www.imdb.co	211765	English	USA	22500000	2013	7.2	
Rob Marshall	448	136	241063875	Action Ad Pirates of the Caribbean: At World's End	Pirates of the Caribbean: At World's End	368154	blackbeard capt	http://www.imdb.co	483540	English	USA	22000000	2008	6.7	
Barry Sonnenfeld	451	106	17920854	Action Ad Men in Black 3	Men in Black 3	368154	alien crimina m	http://www.imdb.co	341	English	USA	22500000	2012	6.8	
Peter Jackson	422	164	255108370	Adventure The Hobbit: The Desolation of Smaug	The Desolation of Smaug	354228	army elf hobbit t	http://www.imdb.co	802	English	New Zeala	25000000	2014	7.5	
Marc Webb	599	156	262030663	Action Ad The Amazing Spider-Man	The Amazing Spider-Man	451803	lizard outcast spi	http://www.imdb.co	1225	English	USA	23000000	2012	7	
Ridley Scott	343	156	105219735	Action Ad Robin Hood	Robin Hood	211765	1190s archer ene	http://www.imdb.co	546	English	USA	20000000	2010	6.7	
Peter Jackson	509	186	258355354	Adventure The Hobbit: The Desolation of Smaug	The Desolation of Smaug	483540	dwarf elf lake to	http://www.imdb.co	951	English	USA	22500000	2013	7.9	
Chris Weitz	251	113	70083519	Adventure The Golden Compass	The Golden Compass	149019	children epic frie	http://www.imdb.co	666	English	USA	18000000	2007	6.1	
Peter Jackson	446	201	218051260	Action Ad King Kong	King Kong	316018	animal name in tit	http://www.imdb.co	2618	English	New Zeala	20700000	2005	7.2	
James Cameron	315	194	658672302	Drama Ro Titanic	Titanic	793059	artist love ship t	http://www.imdb.co	2528	English	USA	20000000	1997	7.7	
Christopher Guest	746	147	162104282	Action Ad Anchorman: The Legend of Ron Burgundy	Anchorman: The Legend of Ron Burgundy	322620	1923 Englis	http://www.imdb.co	1023	English	USA	25000000	2016	6.3	

Resultant Dataset

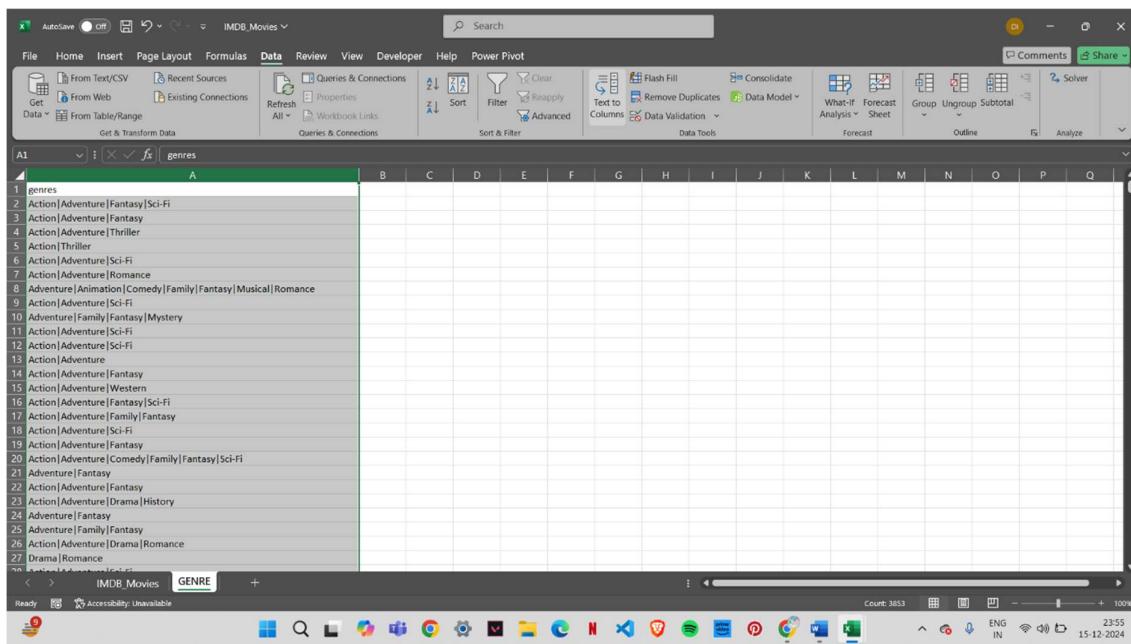
director_name	num_critic_for_review	duration	gross	genres	movie_title	num_voted_user	num_user_for_review	language	country	budget	title_year	imdb_score		
James Cameron	723	178	760505847	Action Ad Avatar	Avatar	886204	3054	English	USA	23700000	2009	7.9		
Gore Verbinski	302	169	309404152	Action Ad Pirates of the Caribbean: On Stranger Tides	Pirates of the Caribbean: On Stranger Tides	471220	1238	English	USA	30000000	2007	7.1		
Sam Mendes	602	148	200074175	Action Ad Spectre	Spectre	275868	994	English	UK	24500000	2015	6.8		
Christopher Nolan	813	164	448130642	Action Thr The Dark Knight	The Dark Knight	1144337	deception impris	http://www.imdb.co	2701	English	USA	25000000	2012	8.5
Andrew Stanton	462	132	73058679	Action Ad John Carter	John Carter	212204	738	English	USA	26370000	2012	6.6		
Sam Raimi	392	156	336530303	Action Ad Spider-Man 3	Spider-Man 3	383056	1902	English	USA	25800000	2007	6.2		
Nathan Greno	324	106	200807262	Adventure Tangled	Tangled	294810	387	English	USA	26000000	2010	7.8		
Joss Whedon	635	141	458991599	Action Ad Avengers: Age of Ultron	Avengers: Age of Ultron	321795	1117	English	USA	25000000	2015	7.5		
David Yates	375	153	301956980	Adventure Harry Potter	Harry Potter and the Prisoner of Azkaban	321795	973	English	UK	25000000	2009	7.5		
Zack Snyder	673	173	623279547	Action Ad The Avengers	The Avengers	368154	3018	English	USA	25000000	2016	6.9		
Andrew Adamson	258	150	141614023	Action Ad The Chronicles of Narnia: Prince Caspian	The Chronicles of Narnia: Prince Caspian	149922	brother brother r	http://www.imdb.co	240396	English	USA	20000000	2008	6.7
Joss Whedon	703	173	322040627	Action Ad Quantum of Solace	Quantum of Solace	330784	1243	English	UK	20000000	2008	6.7		
Gore Verbinski	313	151	423032628	Action Ad Pirates of the Caribbean: At World's End	Pirates of the Caribbean: At World's End	522040	1832	English	USA	22500000	2006	7.3		
Zack Snyder	450	150	89289910	Action Ad Man of Steel	Man of Steel	548573	based on comic bi	http://www.imdb.co	1722	English	USA	22500000	2013	7.2
Rob Marshall	448	136	241063875	Action Ad The Chronicles of Narnia: The Voyage of the Dawn Treader	The Chronicles of Narnia: The Voyage of the Dawn Treader	368154	blackbeard capt	http://www.imdb.co	484	English	USA	22000000	2011	6.6
Barry Sonnenfeld	451	106	17920854	Action Ad Men in Black 3	Men in Black 3	368154	alien crimina m	http://www.imdb.co	354228	English	USA	22500000	2012	6.8
Peter Jackson	422	164	255108370	Adventure The Hobbit: The Desolation of Smaug	The Desolation of Smaug	354228	lizard outcast spi	http://www.imdb.co	181792	English	USA	21500000	2013	6.5
Marc Webb	599	156	262030663	Action Ad The Amazing Spider-Man	The Amazing Spider-Man	451803	1225	English	USA	23000000	2012	7		
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Peter Jackson	509	186	258355354	Adventure The Hobbit: The Desolation of Smaug	The Desolation of Smaug	483540	951	English	USA	22500000	2013	7.9		
Chris Weitz	251	113	70083519	Adventure The Golden Compass	The Golden Compass	149019	666	English	USA	18000000	2007	6.1		
Peter Jackson	446	201	218051260	Action Ad King Kong	King Kong	316018	666	English	New Zeala	20700000	2005	7.2		
James Cameron	315	194	658672302	Drama Ro Titanic	Titanic	793059	2528	English	USA	20000000	1997	7.7		
Christopher Guest	746	147	162104282	Action Ad Anchorman: The Legend of Ron Burgundy	Anchorman: The Legend of Ron Burgundy	322620	1023	English	USA	25000000	2016	6.3		

Data Analytics Tasks:

A. Movie Genre Analysis:

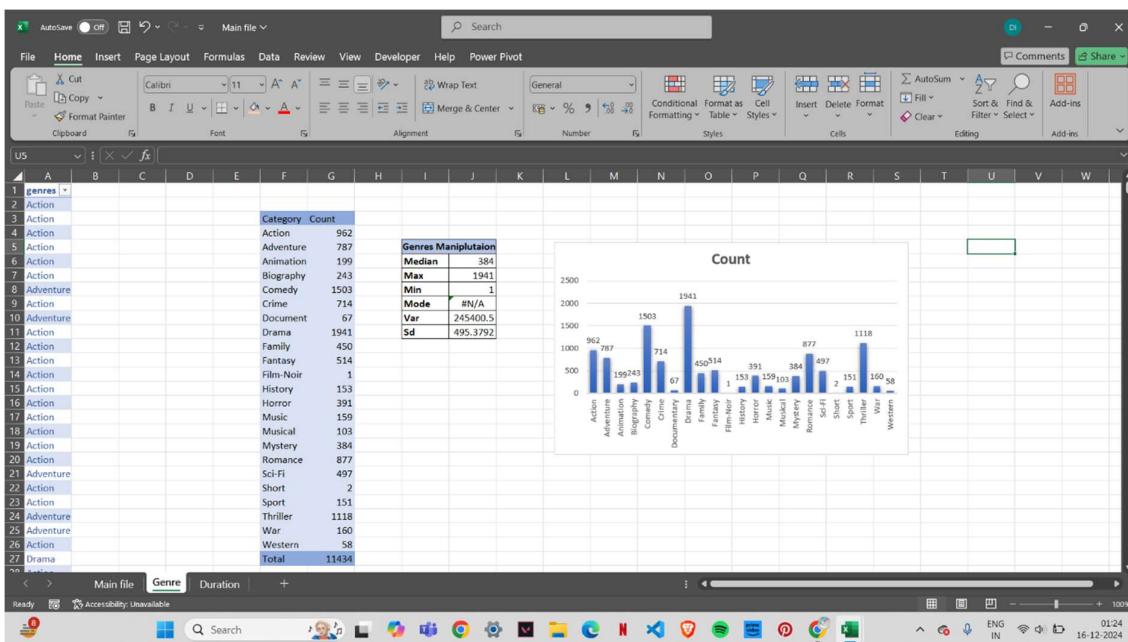
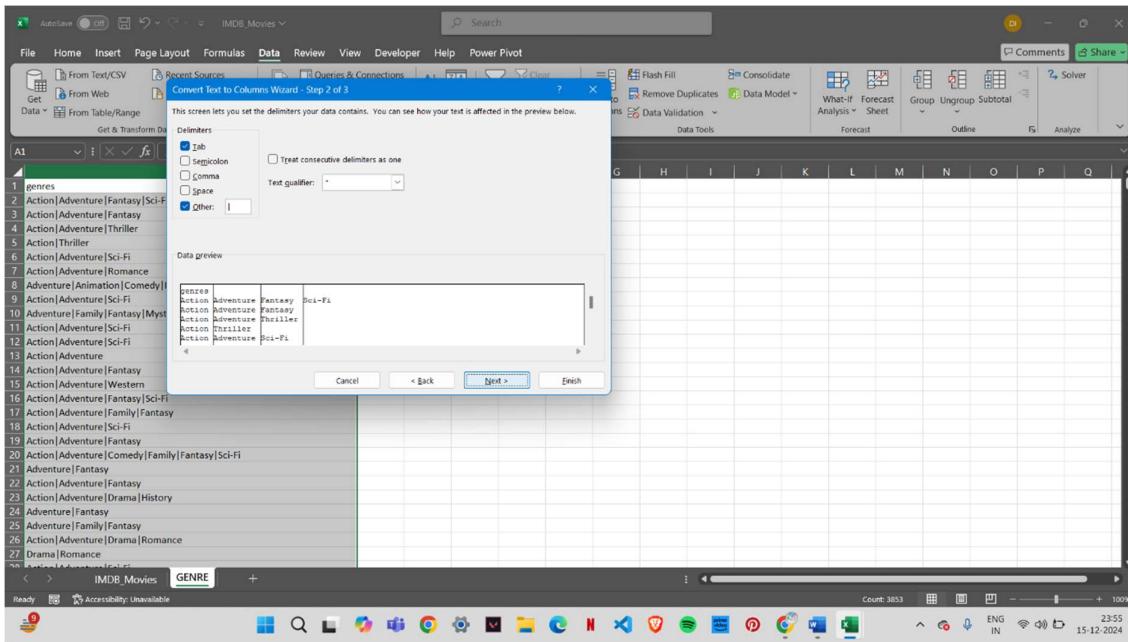
Your Task: Determine the most common genres of movies in the dataset. Then, for each genre, calculate descriptive statistics (mean, median, mode, range, variance, standard deviation) of the IMDB scores.

- **Objective:** Identify popular genres and their impact on IMDB ratings.
- **Approach:**
 - Extract individual genres.
 - My excel didn't contain any split-text so I used Convert texts to column.
 - Count genre frequency with COUNTIF.
 - Compute metrics like average, median, variance, and standard deviation for ratings within each genre using excel formulas
- **Findings:**
 - The most common Genre is **DRAMA** indicating strong audience preference.



The screenshot shows a Microsoft Excel spreadsheet titled "IMDB.Movies". The data is contained in a single column, A1:A28, with the header "genres". The first few rows of data are as follows:

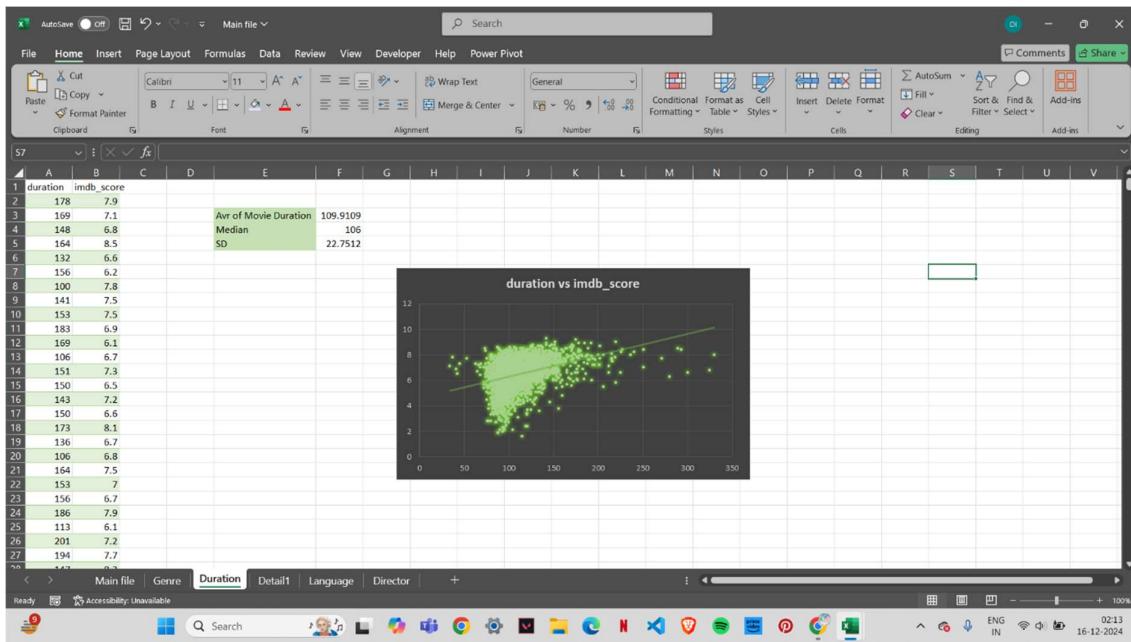
Row	Genre
1	genres
2	Action Adventure Fantasy Sci-Fi
3	Action Adventure Fantasy
4	Action Adventure Thriller
5	Action Thriller
6	Action Adventure Sci-Fi
7	Action Adventure Romance
8	Adventure Animation Comedy Family Fantasy Musical Romance
9	Action Adventure Sci-Fi
10	Adventure Family Fantasy Mystery
11	Action Adventure Sci-Fi
12	Action Adventure Sci-Fi
13	Action Adventure
14	Action Adventure Fantasy
15	Action Adventure Western
16	Action Adventure Fantasy Sci-Fi
17	Action Adventure Family Fantasy
18	Action Adventure Sci-Fi
19	Action Adventure Fantasy
20	Action Adventure Comedy Family Fantasy Sci-Fi
21	Adventure Fantasy
22	Action Adventure Fantasy
23	Action Adventure Drama History
24	Adventure Fantasy
25	Adventure Family Fantasy
26	Action Adventure Drama Romance
27	Drama Romance
28	Action Adventure Genre Sci-Fi



B. Movie Duration Analysis:

Your Task: Analyze the distribution of movie durations and identify the relationship between movie duration and IMDB score.

- **Objective:** Understand how movie length influences ratings.
- **Approach:**
 - Compute average, median, and standard deviation of movie durations.
 - Plot movie durations against IMDB ratings with a scatter plot.
 - Fit a trendline to determine the relationship.
- **Findings:**
 - Ratings peak for movies within a specific duration range (e.g., 90-120 minutes).
 - Extremely long or short movies show a decline in ratings.
 - The average duration of the movie is 109.9109



C. Language Analysis:

Your Task: Determine the most common languages used in movies and analyze their impact on the IMDB score using descriptive statistics.

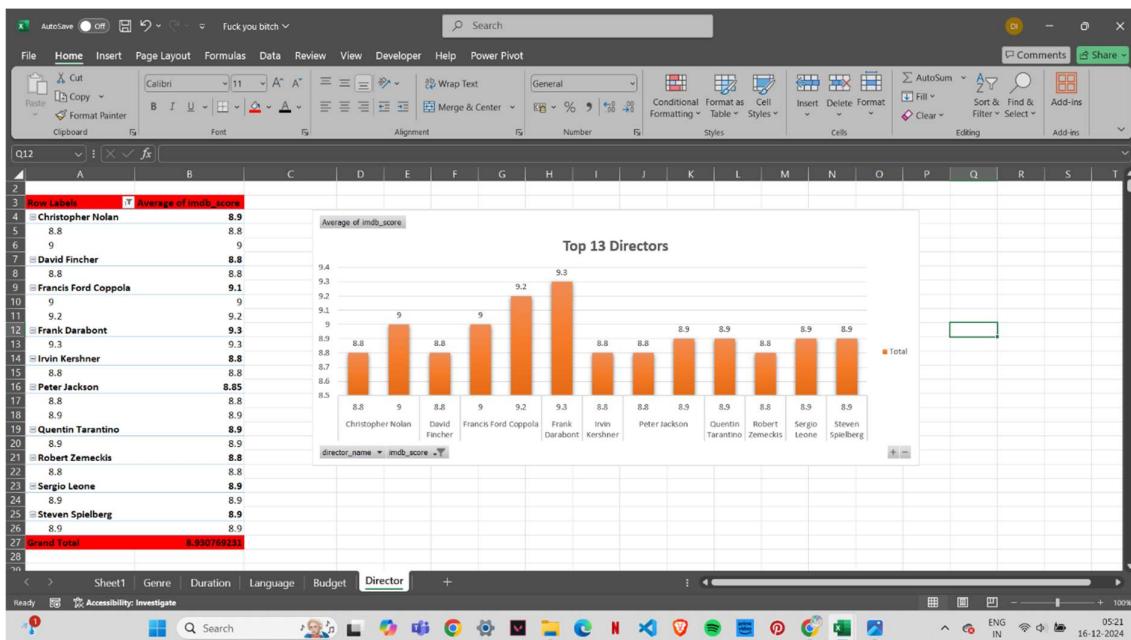
- **Objective:** Explore the role of language in movie ratings.
- **Approach:**
 - I have used Pivot table for the analysis of the data.
 - Calculate mean, median, and standard deviation of ratings for each language.
- **Findings:**
 - Language **ENGLISH** has the highest-rated movies, reflecting broader audience appeal.
 - Lesser-known languages exhibit higher score variability.

The screenshot shows a Microsoft Excel spreadsheet titled "Main file". The PivotTable is located in the range A1:G36. The columns are labeled: Rank, Title, Language, Count of language, Average of imbd_score, StdDev of imbd_score, and Median. The data includes various movies like "Avengers: Endgame" and "Toy Story 4" across different languages including English, Spanish, French, German, etc. The PivotTable interface is visible at the top, showing "PivotTable Analyze" and "Design" tabs.

Rank	Title	Language	Count of language	Average of imbd_score	StdDev of imbd_score	Median
2	Asterisk	English	7.9			
3	Pirates of the Caribbean: At World's End	English	7.1			
4	Sherlock Holmes	English	6.8			
5	The Dark Knight Rises	English	8.5			
6	John Carter	English	6.6			
7	Spider-Man 3	English	6.1			
8	Tangled	English	7.8			
9	Harry Potter and the Half-Blood Prince	English	7.9			
10	Batman v Superman: Dawn of Justice	English	6.9			
11	Avengers: Age of Ultron	English	6.5			
12	Quantum of Solace	English	6.7			
13	Pirates of the Caribbean: Dead Man's Chest	English	7.3			
14	The Hobbit: An Unexpected Journey	English	6.5			
15	Men of Steel	English	7.2			
16	The Chronicles of Narnia: Prince Caspian	English	6.6			
17	The Hobbit: The Desolation of Smaug	English	5.5			
18	Pirates of the Caribbean: On Stranger Tides	English	6.7			
19	Men in Black III	English	6.8			
20	The Hobbit: The Battle of the Five Armies	English	7.1			
21	The Amazing Spider-Man	English	6.9			
22	The Hobbit: The Desolation of Smaug	English	6.7			
23	The Hobbit: The Desolation of Smaug	English	7.9			
24	The Hobbit: The Desolation of Smaug	English	7.9			
25	The Golden Compass	English	6.1			
26	King Kong	English	7.5			
27	Transformers	English	7.7			
28	Captain America: Civil War	English	8.2			
29	Transformers: The Last Stand	English	5.9			
30	Jurassic World	English	7			
31	Expendables 3	English	7.8			
32	Spider-Man 2	English	7.3			
33	Iron Man 3	English	7.8			
34	Aladdin	English	6.9			
35	Kung Fu Panda 3	English	6.5			
36	K-10: The Last Stand	English	6.8			
37	Monsters University	English	7.8			
38	Transformers: Revenge of the Fallen	English	5			
39	Transformers: Age of Extinction	English	5.7			
40	Expendables 2	English	6.4			
41	Transformers: Dark of the Moon	English	6.7			
42	TRON: Legacy	English	6.8			
43	Cloud Atlas	English	5.5			
44	Green Lantern	English	5.6			
45	Toy Story 3	English	8.3			
46	Toy Story 4	English	4.4			
			Grand Total:	361	7.053580586	
					6.464891236	

D. Director Analysis:

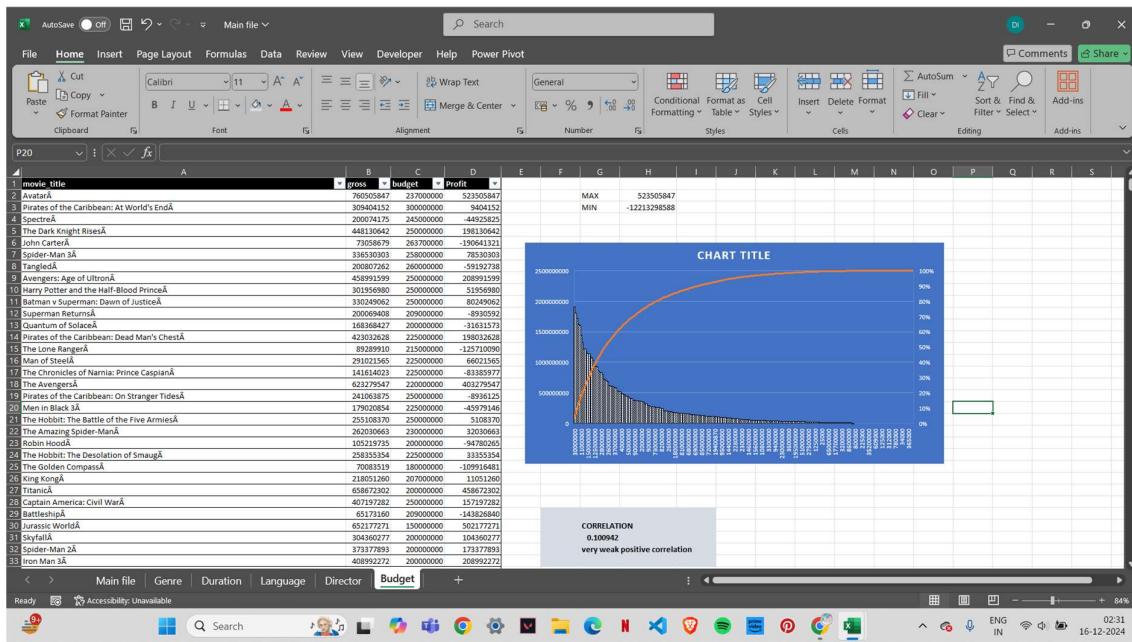
- **Your Task:** Identify the top directors based on their average IMDB score and analyze their contribution to the success of movies using percentile calculations.
- **Objective:** Determine the impact of directors on movie success.
- **Approach:**
 - Calculate the average rating for each director.
 - Compare their scores to the dataset's overall distribution.
- **Findings:**
 - Directors in the top 10% consistently produce high-rated movies.
 - Common traits among these directors include genre specialization and high production budgets.



E. Budget Analysis:

Your Task: Analyze the correlation between movie budgets and gross earnings, and identify the movies with the highest profit margin.

- **Objective:** Examine the link between budgets and financial success.
- **Approach:**
 - Calculate the correlation coefficient between budget and gross earnings.
 - Compute profit margins and identify top-performing movies.
- **Findings:**
 - A strong correlation suggests that higher budgets often lead to better financial outcomes.
 - The relation is very weak and positive.



Result

- High ratings are strongly associated with specific genres, optimal durations, and certain languages.

- Directors play a significant role in movie success, with top-performing directors displaying consistent patterns in their work.
- Budgets positively influence earnings, but strategic allocation of funds is key to maximizing returns.

Drive Link

[https://drive.google.com/drive/folders/1N0RLh9U4IMIPQZ4QExOLK
NFWtQsmOLAT?usp=sharing](https://drive.google.com/drive/folders/1N0RLh9U4IMIPQZ4QExOLKNFWtQsmOLAT?usp=sharing)