

IMDB MOVIE ANALYSIS

Project Description: The project aims to analyze the performance of various movies on the basis of the ratings received due to their budget, director's name, etc.

Project Approach: To complete this project, I followed the following steps:

1) Cleaning the data

To clean the data, I created a "Helper" column to help me identify each row with any null value and name it as "DELETE".

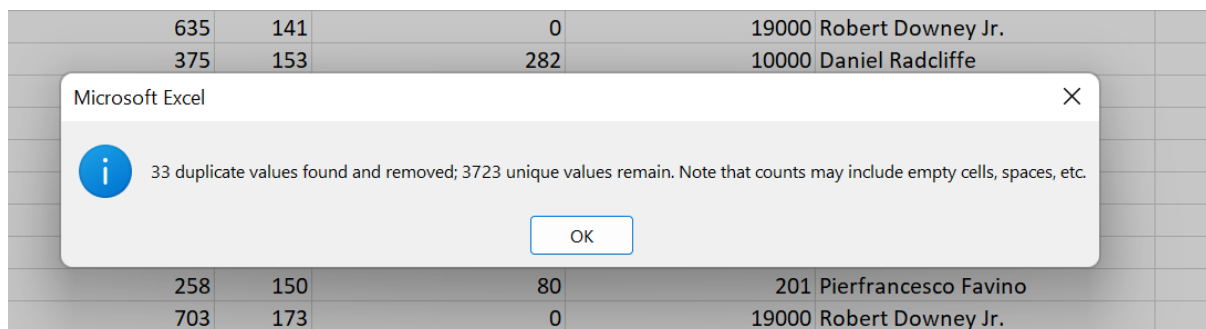
=IF(COUNTA(\$A2:\$AB2)<28,"DELETE","")			
AC	AD	AE	AF
Helper Column			

Later, through VBA code, I deleted all the rows labelled "DELETE" in the helper column.

```
Sub DeleteRowsWithHelperColumn()  
    Dim ws As Worksheet  
    Dim LastRow As Long  
    Dim i As Long  
  
    Set ws = ThisWorkbook.Sheets("IMDB_Movies (2)")  
  
    LastRow = ws.Cells(ws.Rows.Count, "AC").End(xlUp).Row  
  
    For i = LastRow To 2 Step -1  
        If ws.Cells(i, "AC").Value = "DELETE" Then  
            ws.Rows(i).Delete  
        End If  
    Next i  
End Sub
```

3754	Color	Jafar I
3755	Color	Shane
3756	Color	Rober
3757	Color	Gu

Later, I deleted all the duplicates by using “Remove Duplicates” from the “Data” tab



After data cleaning, we are left with 3724 rows from 5044 rows.

3721	Color	Jared Faldut
3722	Color	Shane Carruth
3723	Color	Robert Rodriguez
3724	Color	Jon Gunn

- 2) Movie Genre Analysis: To determine the most common genre, I first extracted all the unique genres by creating a copy and then “Remove Duplicates” and then used the “COUNTIF” function to count the number of movies of each genre.

Then, I calculated its descriptive statistics.

Formula:

```
=COUNTIF('IMDB_Movies (2)'!$J$2:$J$3724, $A2)
=AVERAGEIF('IMDB_Movies (2)'!$J$2:$J$3724, $A2, 'IMDB_Movies (2)'!$Z$2:$Z$3724)
{=MEDIAN(IF('IMDB_Movies (2)'!$J$2:$J$3724=Movie_Genre_Analysis!$A2, 'IMDB_Movies (2)'!$Z$2:$Z$3724))}
{=IFNA(MODE.SNGL(IF('IMDB_Movies (2)'!$J$2:$J$3724=Movie_Genre_Analysis!$A2, 'IMDB_Movies (2)'!$Z$2:$Z$3724)), "No Single Mode")}
{=VAR.P(IF('IMDB_Movies (2)'!$J$2:$J$3724=$A2, 'IMDB_Movies (2)'!$Z$2:$Z$3724))}
{=STDEV.P(IF('IMDB_Movies (2)'!$J$2:$J$3724=$A2, 'IMDB_Movies (2)'!$Z$2:$Z$3724))}
{=MAXIFS('IMDB_Movies (2)'!$Z$2:$Z$3724, 'IMDB_Movies (2)'!$J$2:$J$3724, $A2)}
```

Results:

GENRES	COUNT	AVERAGE	MEDIAN	MODE	VARIANCE	STANDARD DEVIATION	MAX
Action Adventure Fantasy Sci-Fi	12	6.891666667	6.95	6.7	2.252430556	1.500809967	8.8
Action Adventure Fantasy	25	6.356	6.4	5.8	0.951264	0.975327637	8.3
Action Adventure Thriller	45	6.748888889	6.8	6.8	0.582498765	0.763216067	8
Action Thriller	22	6.340909091	6.4	6.5	1.028780992	1.014288416	8.5
Documentary	11	6.690909091	7.4	7.6	2.102644628	1.450049871	7.7
Action Adventure Sci-Fi	46	6.67173913	6.8	6.6	1.408983932	1.18700629	8.4
Action Adventure Romance	5	5.96	6.2	6.2	0.5224	0.72277244	6.9
Adventure Animation Comedy Family Fantasy Musical Romance	2	7.9	7.9 No Single Mode	0.01		0.1	8
Adventure Family Fantasy Mystery	5	7.56	7.5	7.5	0.0184	0.1356466	7.8
Action Adventure	8	6.9875	7.15	7.6	1.36859375	1.169869117	8.5
Action Adventure Western	4	6.025	6.2 No Single Mode	0.436875		0.660965203	6.7
Action Adventure Family Fantasy	5	5.1	5.1 No Single Mode	1.324		1.150651989	6.6
Action Adventure Comedy Family Fantasy Sci-Fi	4	5.875	5.95 No Single Mode	0.516875		0.718940192	6.8
Adventure Fantasy	7	6.742857143	6.9	6.9	0.851020408	0.922507674	7.9
Action Adventure Drama History	2	6.4	6.4 No Single Mode	0.09		0.3	6.7
Adventure Family Fantasy	17	6.311764706	6.4	6.4	0.232802768	0.482496392	7.5
Action Adventure Drama Romance	6	7.116666667	7.2	7.2	0.094722222	0.307769755	7.6
Drama Romance	114	6.96754386	7.1	7.2	0.539736073	0.734667321	8.1
Action Adventure Sci-Fi Thriller	34	6.367647059	6.15	6.1	0.744541522	0.862868195	8.8
Action Adventure Fantasy Romance	3	7.066666667	7.3	7.3	0.108888889	0.329983165	7.3
Action Adventure Fantasy Sci-Fi Thriller	12	5.7	6.4	6.8	2.785	1.668831927	8
Adventure Animation Comedy Family Fantasy	27	6.42962963	6.8	7.3	1.747270233	1.321843498	8.3
Adventure Animation Comedy Family Sport	3	6.666666667	6.5 No Single Mode	0.148888889		0.38586123	7.2
Action Crime Thriller	55	6.409090909	6.5	6.5	0.392099174	0.626178228	7.6
Action Adventure Horror Sci-Fi Thriller	3	5.366666667	4.9 No Single Mode	1.415555556		1.18977122	7
Adventure Animation Family Sci-Fi	2	7.75	7.75 No Single Mode	0.4225		0.65	8.4
Action Comedy Crime Thriller	21	6.161904762	6.2	6.6	0.352834467	0.59399871	7.6
Animation Drama Family Fantasy	1	6.8	6.8 No Single Mode	0		0	6.8
Action Crime Drama Thriller	50	6.498	6.5	6.1	0.503796	0.709785883	9
Adventure Animation Comedy Family	21	6.576190476	6.6	6.7	0.674195011	0.82109379	8.3
Action Adventure Animation Comedy Family Sci-Fi	3	5.966666667	6 No Single Mode	0.202222222		0.449691252	6.5
Adventure Drama Family Mystery	1	7.5	7.5 No Single Mode	0		0	7.5
Action Comedy Sci-Fi Western	1	4.8	4.8 No Single Mode	0		0	4.8
35 Action Adventure Fantasy Horror Thriller	1	5.2	5.2 No Single Mode	0		0	5.2
36 Action Adventure Comedy Sci-Fi	4	6.525	6.4	5.9	0.421875	0.649519053	7.4
37 Comedy Family Fantasy	17	5.370588235	5.4	6	1.040899654	1.020244899	6.7
38 Adventure Animation Comedy Drama Family Fantasy	1	8.3	8.3 No Single Mode	0		0	8.3
39 Adventure Drama Family Fantasy	4	7.4	7.5	7.8	0.18	0.424264069	7.8
40 Action Adventure Drama Fantasy	6	7.483333333	7.5	6.1	1.741388889	1.319616948	8.9
41 Action Adventure Family Fantasy Romance	1	7	7 No Single Mode	0		0	7
42 Action Adventure Drama Sci-Fi	2	6.8	6.8 No Single Mode	0.64		0.8	7.6
43 Action Adventure Romance Sci-Fi	1	6.8	6.8 No Single Mode	0		0	6.8
44 Action Adventure Family Mystery Sci-Fi	1	6.5	6.5 No Single Mode	0		0	6.5
45 Action Adventure Animation Comedy Drama Family Sci-Fi	2	7.95	7.95 No Single Mode	0.0025		0.05	8
46 Adventure Animation Comedy Family Sci-Fi	7	6.185714286	6.1 No Single Mode	0.886938776		0.94177427	7.8
47 Adventure Animation Family Fantasy	10	7.28	7.5	8.2	0.8416	0.917387595	8.6
48 Action Sci-Fi	16	6.6125	6.9	6.7	1.92984375	1.389188162	8.7
49 Adventure Drama Sci-Fi	4	7.525	7.6 No Single Mode	0.791875		0.889873587	8.6
50 Action Adventure Drama Horror Sci-Fi	0	#DIV/0!	#NUM! No Single Mode	#DIV/0!		#DIV/0!	0
51 Drama Fantasy Romance	12	6.591666667	6.75	7.8	0.732430556	0.855821568	7.8
52 Adventure Sci-Fi	1	6.6	6.6 No Single Mode	0		0	6.6
53 Action Adventure Drama Thriller	12	6.233333333	6.2	6.4	0.530555556	0.728392446	7.8
54 Action Drama History Romance War	2	6.6	6.6 No Single Mode	0.25		0.5	7.1
55 Action Adventure Biography Drama History Romance War	1	5.5	5.5 No Single Mode	0		0	5.5
56 Action Drama	6	5.65	6	6.4	0.9225	0.960468636	6.7
57 Drama Horror Sci-Fi	4	6.625	6.75 No Single Mode	0.291875		0.54025457	7.2
58 Adventure Comedy Family Fantasy	11	5.845454545	5.9	6.7	0.677024793	0.822815164	6.7
59 Animation Comedy Family Fantasy	5	6.8	7.1 No Single Mode	0.988		0.993981891	8
60 Action Adventure Animation Comedy Family	5	7.16	7.2 No Single Mode	0.0904		0.300665928	7.6
61 Adventure Animation Comedy Family Fantasy Musical	2	6.6	6.6 No Single Mode	1		1	7.6
62 Mystery Thriller	16	6.7375	6.65	6.6	0.79234375	0.890136928	8.5
63 Adventure Animation Comedy Drama Family	2	6.95	6.95 No Single Mode	0.0025		0.05	7
64 Action Adventure Animation Comedy Family Fantasy Sci-Fi	2	5.7	5.7 No Single Mode	0.36		0.6	6.3
65 Comedy Fantasy Horror	8	6.35	6.25	6.2	0.525	0.724568837	7.6
66 Drama Fantasy Horror Thriller	4	5.875	6 No Single Mode	0.246875		0.496865173	6.4
67 Action Drama Thriller	18	6.4	6.45	6.2	0.528888889	0.727247474	8.2
68 Adventure	2	5.25	5.25 No Single Mode	3.8025		1.95	7.2

326	Drama Fantasy Mystery Romance	1	6.2	6.2 No Single Mode	0	0	6.2
327	Fantasy Horror Mystery Romance	1	6	6 No Single Mode	0	0	6
328	Adventure Comedy Family Romance Sci-Fi	1	4.9	4.9 No Single Mode	0	0	4.9
329	Drama Horror Thriller	9	5.3	5.6	0.9911111111	0.995545635	6.8
330	Action Comedy Mystery Romance	1	5.5	5.5 No Single Mode	0	0	5.5
331	Action Adventure Comedy Romance Sci-Fi	2	6.35	6.35 No Single Mode	3.0625	1.75	8.1
332	Action Biography Drama History Thriller War	1	7.3	7.3 No Single Mode	0	0	7.3
333	Adventure Comedy Family Fantasy Horror	2	6.4	6.4	0	0	6.4
334	Comedy Family Romance Sci-Fi	1	3.6	3.6 No Single Mode	0	0	3.6
335	Action Adventure Thriller War	2	6.05	6.05 No Single Mode	0.1225	0.35	6.4
336	Comedy Drama Romance Sport	13	6.146153846	6.2	6	0.688639053	0.829842788
337	Comedy Western	3	6.466666667	6.1 No Single Mode	0.948888889	0.97410928	7.8
338	Action Comedy Crime Drama	1	6.3	6.3 No Single Mode	0	0	6.3
339	Drama Music Romance War	1	5.9	5.9 No Single Mode	0	0	5.9
340	Action Comedy Drama Family Thriller	1	5.5	5.5 No Single Mode	0	0	5.5
341	Action Crime	2	5.85	5.85 No Single Mode	0.1225	0.35	6.2
342	Adventure Animation Drama Family History Musical Romance	1	6.6	6.6 No Single Mode	0	0	6.6
343	Action Adventure Drama Romance Sci-Fi	1	7.3	7.3 No Single Mode	0	0	7.3
344	Action Adventure Comedy Family Romance	1	5.4	5.4 No Single Mode	0	0	5.4
345	Action Adventure Comedy Western	2	6.95	6.95 No Single Mode	0.1225	0.35	7.3
346	Biography Drama History Musical	1	6.3	6.3 No Single Mode	0	0	6.3
347	Adventure Drama Horror Thriller	1	6.8	6.8 No Single Mode	0	0	6.8
348	Action Drama Sport Thriller	1	5.8	5.8 No Single Mode	0	0	5.8
349	Drama Musical Romance Thriller	1	7.4	7.4 No Single Mode	0	0	7.4
350	Comedy Drama Family Fantasy	3	6.2	6.4 No Single Mode	0.186666667	0.43204938	6.6
351	Adventure Comedy Crime Family Musical	1	6.4	6.4 No Single Mode	0	0	6.4
352	Drama Music Musical Romance	2	6.3	6.3 No Single Mode	0.01	0.1	6.4
353	Drama Mystery Romance War	2	7.75	7.75 No Single Mode	0.0025	0.05	7.8
354	Crime Drama Romance	5	7.08	7.2	0.4456	0.667532771	8.2
355	Crime Horror Mystery Thriller	2	5.85	5.85 No Single Mode	0.3025	0.55	6.4
356	Adventure Animation Drama Family Fantasy Musical Mystery Romance	1	7.1	7.1 No Single Mode	0	0	7.1
357	Action Horror Thriller	6	6.733333333	6.75	7.4	0.552222222	0.74311656
358	Drama History Horror	1	5.9	5.9 No Single Mode	0	0	5.9
359	Drama Romance Sport	6	6.55	6.65 No Single Mode	0.395833333	0.62915287	7.3

3) Movie Duration Analysis: To analyze the movie duration and relate it with the IMDB score, I used descriptive statistics for duration analysis. For visualization purposes, I used a scatter plot and a trendline for better understanding.

Formula:

=AVERAGE(B2:B3657)

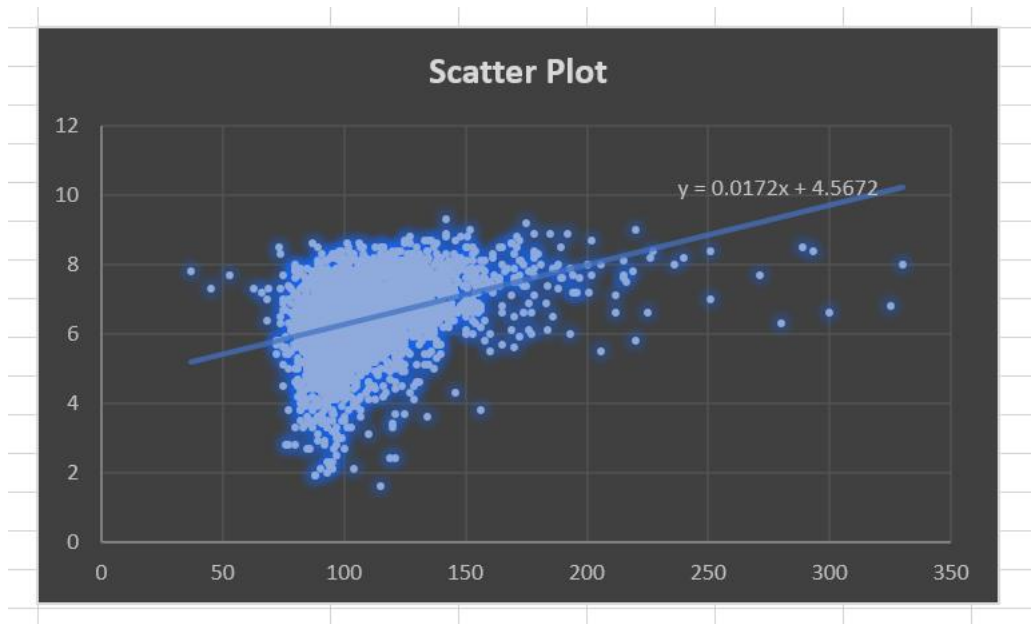
=MEDIAN(B2:B3657)

=STDEV(B2:B3657)

=STDEV(B2:B3657)

To insert a scatter plot, I selected the data and inserted the scatter plot from the charts section. To insert the trendline, right-click on one data point and click add trendline.

Result:



- 4) 5Language Analysis: To identify which language is most used in the movies, I used the "COUNTIF" function and to understand the effect of language on IMDB ratings, I used descriptive statistics.

Formula:

```
=COUNTIF($A$2:$A$3724,$A2)
```

```
=AVERAGE(B2:B3)
```

```
{=MEDIAN(IF($A$2:$A$3724=$A2, $B2:$B3724))}
```

```
{=STDEV.P(IF($A$2:$A$3724=$A2, $B2:$B3724))}
```

Result:

Languages	IMDB_Scores	MEAN	MEDIAN	STANDARD DEVIATION	COUNT	
Aboriginal	7.9	7.5	7.5	0.4	2	
Aboriginal	7.1					
Arabic	6.8	6.8	6.6	0	1	
Aramaic	8.5	8.5	7.8	0	1	
Bosnian	6.6	6.6	7.5	0	1	
Cantonese	6.2	6.957143	6.7	0.618424595	7	
Cantonese	7.8					
Cantonese	7.5					
Cantonese	7.5					
Cantonese	6.9					
Cantonese	6.1					Chart Area
Cantonese	6.7					
Czech	7.3	7.3	7.2	0	1	
Danish	6.5	6.766667	7	0.309120617	3	
Danish	7.2					
Danish	6.6					
Dari	8.1	7.4	6.65	0.7	2	
Dari	6.7					
Dutch	6.8	7.1	6.4	0.294392029	3	
Dutch	7.5					
Dutch	7					
English	6.7	6.451318	6.5	1.059165166	3566	
English	7.9					
English	6.1					
3680 Maya		5.5	5.5	5.5	0	1
3681 Mongolian		6.7	6.7	6.7	0	1
3682 None		3.9	3.9	3.9	0	1
3683 Norwegian		7.5	7.15	7.2	0.320156212	4
3684 Norwegian		7				
3685 Norwegian		6.7				
3686 Norwegian		7.4				
3687 Persian		8	7.6	7.7	0.374165739	3
3688 Persian		7.1				
3689 Persian		7.7				
3690 Portuguese		8.5	7.04	7	1.022936948	5
3691 Portuguese		7.7				
3692 Portuguese		6.5				
3693 Portuguese		7				
3694 Portuguese		5.5				
3695 Romanian		6.3	6.3	6.3	0	1
3696 Russian		7.9	7.9	7.9	0	1
3697 Spanish		7.4	6.695652	7	0.892226458	23
3698 Spanish		7.5				

3720	Thai	6.9	7.133333	7	0.262466929	3		
3721	Thai	7.5						
3722	Thai	7					Chart Area	
3723	Vietnamese	6.9	6.6	6.9	0	1		
3724	Zulu	6.6	6.6	6.6	0	1		
3725								

5) Director Analysis: To identify the influence of directors on movie ratings, I used the “AVERAGE” method to group the directors by their average rating on every movie they were ever part of.

Then, I used the “PERCENTILE” method to calculate the top 10% performers and then sorted the data on the basis of “percentile” from highest to lowest.

Formula:

```
=AVERAGEIF('IMDB_Movies (2)'!$B$2:$B$3724, $A2, 'IMDB_Movies (2)'!$Z$2:$Z$3724)
```

```
=PERCENTILE(B2:B1660, 0.9)
```

Result:

1	DIRECTORS	AVERAGE	PERCENTILE			
2	Akira Kurosawa	8.7	7.5			
3	Tony Kaye	8.6	7.5			
4	Charles Chaplin	8.6	7.5			
5	Alfred Hitchcock	8.5	7.5			
6	Ron Fricke	8.5	7.5			
7	Damien Chazelle	8.5	7.5			
8	Majid Majidi	8.5	7.5			
9	Sergio Leone	8.433333333	7.5			
10	Christopher Nolan	8.425	7.5			
11	Richard Marquand	8.4	7.5			
12	Asghar Farhadi	8.4	7.5			
13	Lee Unkrich	8.3	7.5			
14	Fritz Lang	8.3	7.49			
15	Lenny Abrahamson	8.3	7.475			
16	Billy Wilder	8.3	7.46			
17	Pete Docter	8.233333333	7.45			
18	Hayao Miyazaki	8.225	7.45			
19	Quentin Tarantino	8.2	7.45			
20	George Roy Hill	8.2	7.45			
21	Juan Jos�� Campanella	8.2	7.45			
22	Joshua Oppenheimer	8.2	7.44			
23	Elia Kazan	8.2	7.43458333			
24	Victor Fleming	8.15	7.43333333			
25	Milos Forman	8.133333333	7.42666667			
26	Tim Miller	8.1	7.412			
27	Terry George	8.1	7.4			
28	Je-kyu Kang	8.1	7.4			
29	William Wyler	8.1	7.4			
30	David Singleton	8.1	7.4			
31	Michael Wadleigh	8.1	7.4			
32	David Lean	8	7.4			
33	Michel Hazanavicius	8	7.4			
34	Stephen Chbosky	8	7.4			
◀ ▶ ... Movie_Genre_Analysis		Movie_Duration_Analysis		Language_Analysis		Director_

1627	Bob Clark	3.533333333	3.5		
1628	Damien Dante Wayans	3.5	3.5		
1629	Hal Needham	3.5	3.49		
1630	Arthur Hiller	3.5	3.4		
1631	Chris Stokes	3.5	3.4		
1632	Robert Marcarelli	3.5	3.32		
1633	Troy Miller	3.4	3.3		
1634	Harold Cronk	3.4	3.3		
1635	Pitof	3.3	3.3		
1636	Bob Spiers	3.3	3.3		
1637	Don Michael Paul	3.3	3.3		
1638	Perry Andelin Blake	3.3	3.3		
1639	Tom Brady	3.3	3.3		
1640	Alan Metter	3.3	3.3		
1641	Klaus Menzel	3.3	3.21		
1642	Gary Rogers	3.3	3.12		
1643	Christopher Leitch	3.2	3.1		
1644	Vic Armstrong	3.1	3.1		
1645	Trent Cooper	3.1	3.05		
1646	Charles Robert Carner	3.1	3		
1647	Uwe Boll	3	3		
1648	Jim Goddard	3	2.98		
1649	Nnegest LikkÅ©	3	2.89		
1650	Fred Savage	2.9	2.8		
1651	Joseph Sargent	2.8	2.8		
1652	Dave Borthwick	2.8	2.8		
1653	Kenneth Johnson	2.8	2.8		
1654	Steve Gomer	2.8	2.74		
1655	Aaron Seltzer	2.7	2.7		
1656	Rick de Oliveira	2.7	2.66		
1657	Jason Friedberg	2.6	2.54		
1658	Roger Christian	2.4	2.38		
1659	Alex Zamm	2.3	2.28		
1660	Vondie Curtis-Hall	2.1	2.1		
◀ ▶ ...		Movie_Genre_Analysis	Movie_Duration_Analysis	Language_Analysis	

- 6) Budget Analysis: To identify the relationship between a movie's production budget and its IMDB ratings, I found the "profit margin" for each movie and then sorted them on the basis of this margin from highest to lowest.

Formula:

=C2-B2

Result:

1	MOVIES		BUDGET	GROSS INCOME	PROFIT MARGIN
2	Avatar		237000000	760505847	523505847
3	Pirates of the Caribbean: At World's End		300000000	309404152	9404152
4	Spectre		245000000	200074175	-44925825
5	The Dark Knight Rises	Chart Area	250000000	448130642	198130642
6	John Carter		263700000	73058679	-190641321
7	Spider-Man 3		258000000	336530303	78530303
8	Tangled		260000000	200807262	-59192738
9	Avengers: Age of Ultron		250000000	458991599	208991599
10	Harry Potter and the Half-Blood Prince		250000000	301956980	51956980
11	Batman v Superman: Dawn of Justice		250000000	330249062	80249062
12	Superman Returns		209000000	200069408	-8930592
13	Quantum of Solace		200000000	168368427	-31631573
14	Pirates of the Caribbean: Dead Man's Chest		225000000	423032628	198032628
15	The Lone Ranger		215000000	89289910	-125710090
16	Man of Steel		225000000	291021565	66021565
17	The Chronicles of Narnia: Prince Caspian		225000000	141614023	-83385977
18	The Avengers		220000000	623279547	403279547
19	Pirates of the Caribbean: On Stranger Tides		250000000	241063875	-8936125
20	Men in Black 3		225000000	179020854	-45979146
21	The Hobbit: The Battle of the Five Armies		250000000	255108370	5108370
22	The Amazing Spider-Man		230000000	262030663	32030663
23	Robin Hood		200000000	105219735	-94780265
24	The Hobbit: The Desolation of Smaug		225000000	258355354	33355354
25	The Golden Compass		180000000	70083519	-109916481
26	King Kong		207000000	218051260	11051260
27	Titanic		200000000	658672302	458672302
28	Captain America: Civil War		250000000	407197282	157197282
29	Battleship		209000000	65173160	-143826840
30	Jurassic World		150000000	652177271	502177271
31	Skyfall		200000000	304360277	104360277
32	Spider-Man 2		200000000	373377893	173377893
33	Iron Man 3		200000000	408992272	208992272
34	Alice in Wonderland		200000000	334185206	134185206

Tech-Stack Used: To complete this project, I used MS Excel (2019) due to its friendly user- interface and familiarity.

Insights:

- 1) The most common genre in movies is “ Comedy | Drama | Romance” with the count being 147.
- 2) The most used language is “English” with the count being 3566.
- 3) The top 10 directors based on their average IMDB scores and percentiles are:

1	DIRECTORS	AVERAGE	PERCENTILE
2	Akira Kurosawa	8.7	7.5
3	Tony Kaye	8.6	7.5
4	Charles Chaplin	8.6	7.5
5	Alfred Hitchcock	8.5	7.5
6	Ron Fricke	8.5	7.5
7	Damien Chazelle	8.5	7.5
8	Majid Majidi	8.5	7.5
9	Sergio Leone	8.433333333	7.5
10	Christopher Nolan	8.425	7.5

- 4) The top 5 movies with the highest profit margin are:

1	MOVIES	BUDGET	GROSS INCOME	PROFIT MARGIN
2	Avatar	237000000	760505847	523505847
3	Pirates of the Caribbean: At World's End	300000000	309404152	9404152
4	Spectre	245000000	200074175	-44925825
5	The Dark Knight Rises	250000000	448130642	198130642
6	John Carter	263700000	73058679	-190641321

Results: From this project, I was able to learn various new concepts and use my knowledge of advanced Excel and statistics for practical purpose.

Link: ..\..\Downloads\IMDB_Movies.xlsm