Low Level Design

Entertainer Data Analysis

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Version: 0.0

INDEX

❖ Problem Statement:

Normal life can be stressful, and people need to relax. Being entertained by other is a wonderful way to take some time out of life. It can reduce stress and make life's issues easier to face. The media and entertainment industry consists of film, television, radio and print. These segments include movies, TV shows, radio shows, news, music, newspapers, magazines, and books. Entertainment industry is a group of sub-industries devoted to entertainment. Entertainment industry is used to describe the mass media companies that control the distribution and manufacture of mass media entertainment.

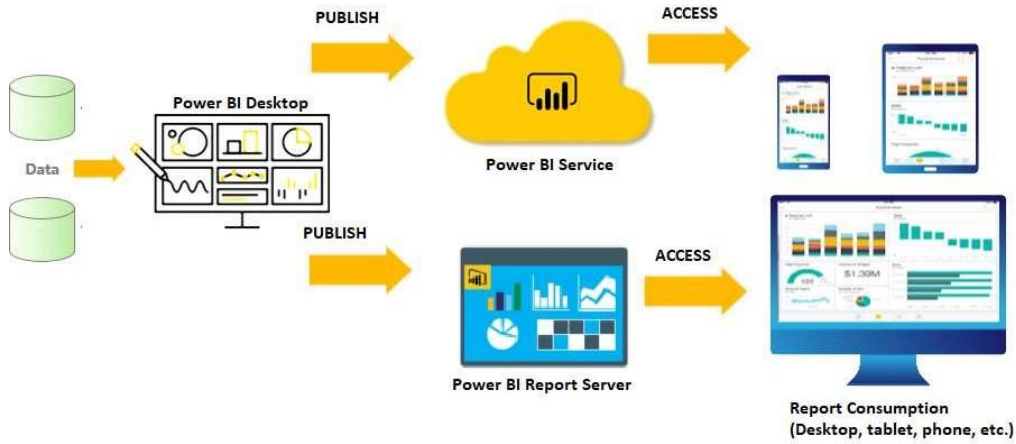
❖ Tasks:

- **Task 1 -** In a word document write the process and data added to the current dataset. In addition, mention the theme on which you will be creating the dashboard.
- **Task 2 -** You can add your data as per your convenience.
- **Task 3 -** Do the data preparation part.
- **Task 4 -** Build the dashboards
- **Task 5 -** Build a Storyline

❖ Scope:

My aim is to find out in which year the highest award, highest breakthrough, and the number of awards won by entertainers throughout their life. I have made two dashboards showing their award-winning performance in different professions. Dashboards show in which year highest Oscar award receive, which profession takes the highest awards and highest number of nominees, Oscar awards, Emmy awards, Grammy,awards, and other awards etc. so that each and every one can analyse which entertainer is the best according to their thought process.

❖ Architecture:



- **Power Query:**
  Power Query is the data transformation and mash up the engine. It enables you to discover, connect, combine, and refine data sources to meet your analysis need. It can be downloaded as an add-in for Excel or can be used as part of the Power BI Desktop.

- **Power Pivot:**
  Power Pivot is a data modeling technique that lets you create data models, establish relationships, and create calculations. It uses Data Analysis Expression (DAX) language to model simple and complex data.

- **Power View:**
  Power View is a technology that is available in Excel, Sharepoint, SQL Server, and Power BI. It lets you create interactive charts, graphs, maps, and other visuals that bring your data to life. It can connect to data sources and filter data for each data visualization element or the entire report.

- **Power Map:**
  Microsoft's Power Map for Excel and Power BI is a 3-D data visualization tool that lets you map your data and plot more than a million rows of data visually on Bing maps in 3-D format from an Excel table or Data Model in Excel. Power Map works with Bing maps to get the best visualization based on latitude, longitude, or country, state, city, and street address information.

- **Power BI Desktop:**
  Power BI Desktop is a development tool for Power Query, Power Pivot, and Power View. With Power BI Desktop, you have everything under the same solution, and it is easier to develop BI and data analysis experience.

- **Power BI Service:**
  Power BI service is the Software as a Service (SaaS) part of Power BI. It is also known as Power BI Online. To access Power BI Service, you need to log in to Power BI service.

- **Power Q&A:**
  The Q&A feature in Power BI lets you explore your data in your own words. It is the fastest way to get an answer from your data using natural language. An example could be what was the total sales last year? Once you've built your data model and deployed that into the Power BI website, then you can ask questions and get answers quickly.

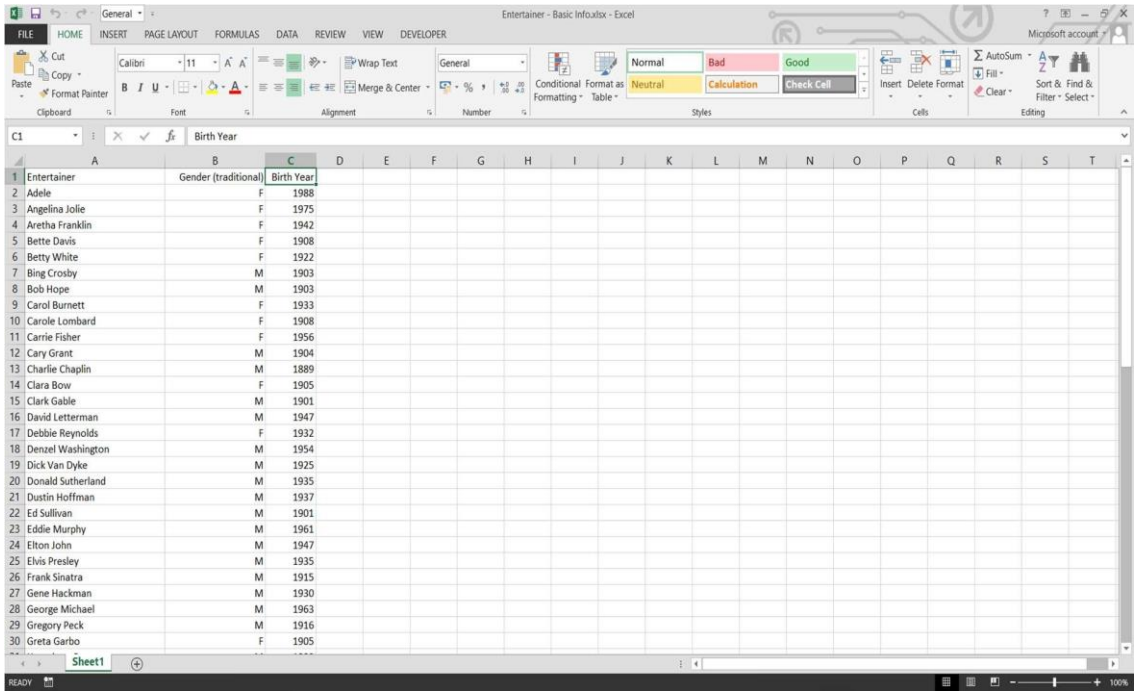
❖ Data Description:

- Data was given into three parts in an excel file which are Entertainer - Basic Info, Entertainer, Breakthrough Info, and Entertainer - Last work Info.
- Basic Info includes name, gender, and birth year of entertainer.
- Breakthrough Info includes the year of breakthrough/hit/award nomination, breakthrough name, and year of first Oscar/Grammy/Emmy along with the name of entertainers.
- Last work Info includes last major work (arguable), year of death (if they are) along with the name of entertainers.
- This data isn't sufficient to do analysis and make a dashboard on it. For this, I have added some external information like awards they won, nominees etc. from IMDb's official website (IMDb). And make another excel sheet called award info
- Then after all these four sheets I merge the data set in Power BI Desktop using Power Query

Features Description:

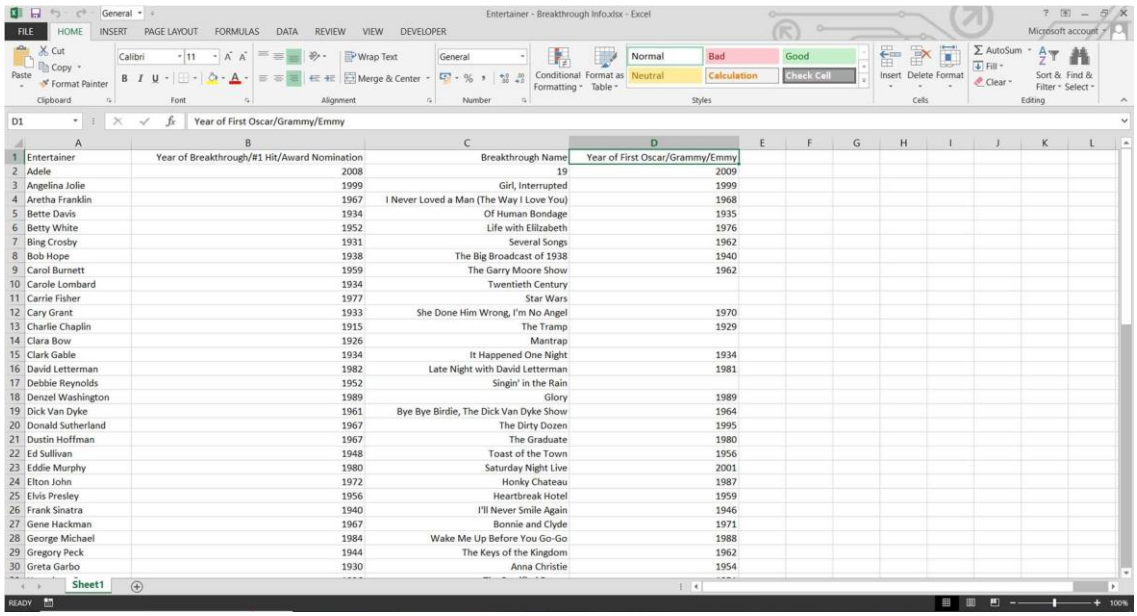
- **Entertainer:** Name of the entertainer.
- **Gender (traditional):** Gender of that entertainer
- **Birth Year:** Birth year of that entertainer
- **Year of Breakthrough/#1 hit/Award Nomination:** Here, breakthrough means super hit or career changing performance. Column shows year of breakthrough.
- **Breakthrough Name:** Name of breakthrough. It can be either musical album or TV show or movie.
- **Year of first Oscar/Grammy/Emmy:** Year if first mega award they won.
- **Year of Last Major Work (arguable):** Last major show or movie or album. You can also say last appearance.
- **Year of Death:** Entertainer's year of death, if they die.
- **Award won from Breakthrough:** Any award/s from breakthrough. I only wrote mega awards they won in this column. If they had other awards for breakthrough, I wrote "other", if they haven't, I wrote "No Award". If they have mega award, I wrote that award name.
- **Total Awards Won:** Total awards that entertainer won throughout.
- **Total Nominees:** Total nominees for they have chosen for award.
- **Profession:** Category of entertainer either singer or actor. Pop stars and dancers are included in singer and TV hosts and TV actors are included in actors.
- **Oscar won:** Number of total Oscar awards they won.
- **Grammy won:** Number of total Grammy awards they won.
- **Emmy won:** Number of total Emmy awards they won.
- **Other Awards:** Number of other awards they won apart from Oscar, Grammy and Emmy.

Glimpse of Entertainer – Basic Info:



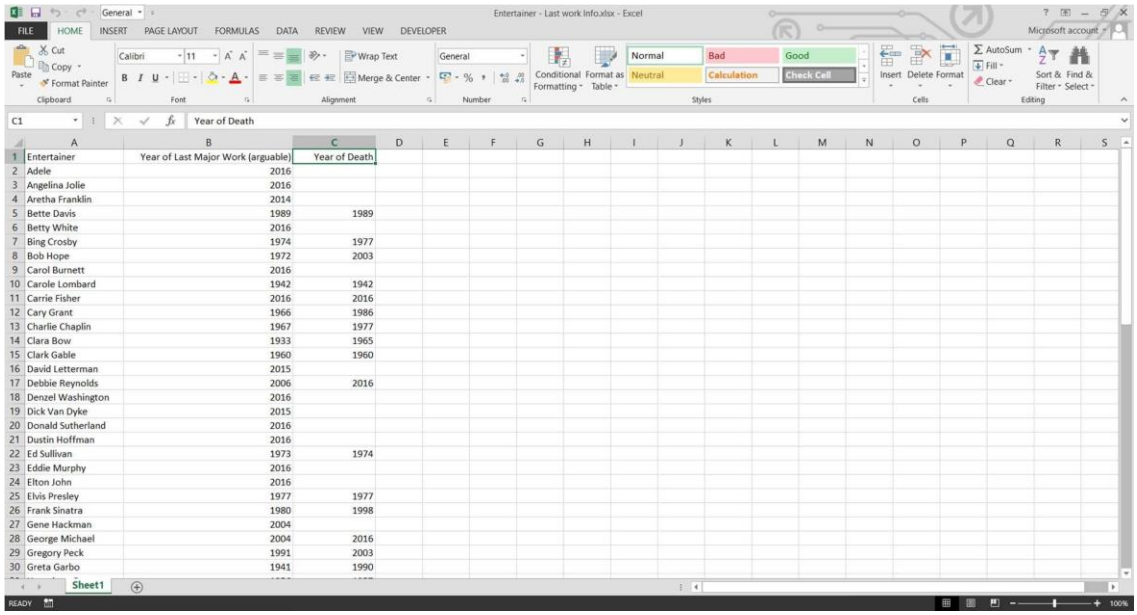
Entertainer	Gender (traditional)	Birth Year
Adele	F	1988
Angelina Jolie	F	1975
Aretha Franklin	F	1942
Bette Davis	F	1908
Betty White	F	1922
Bing Crosby	M	1903
Bob Hope	M	1903
Carol Burnett	F	1933
Carole Lombard	F	1908
Carrie Fisher	F	1956
Cary Grant	M	1904
Charlie Chaplin	M	1889
Clara Bow	F	1905
Clark Gable	M	1901
David Letterman	M	1947
Debbie Reynolds	F	1932
Denzel Washington	M	1954
Dick Van Dyke	M	1925
Donald Sutherland	M	1935
Dustin Hoffman	M	1937
Ed Sullivan	M	1901
Eddie Murphy	M	1961
Elton John	M	1947
Elvis Presley	M	1935
Frank Sinatra	M	1915
Gene Hackman	M	1930
George Michael	M	1963
Gregory Peck	M	1916
Greta Garbo	F	1905

Glimpse of Entertainer – Breakthrough Info:



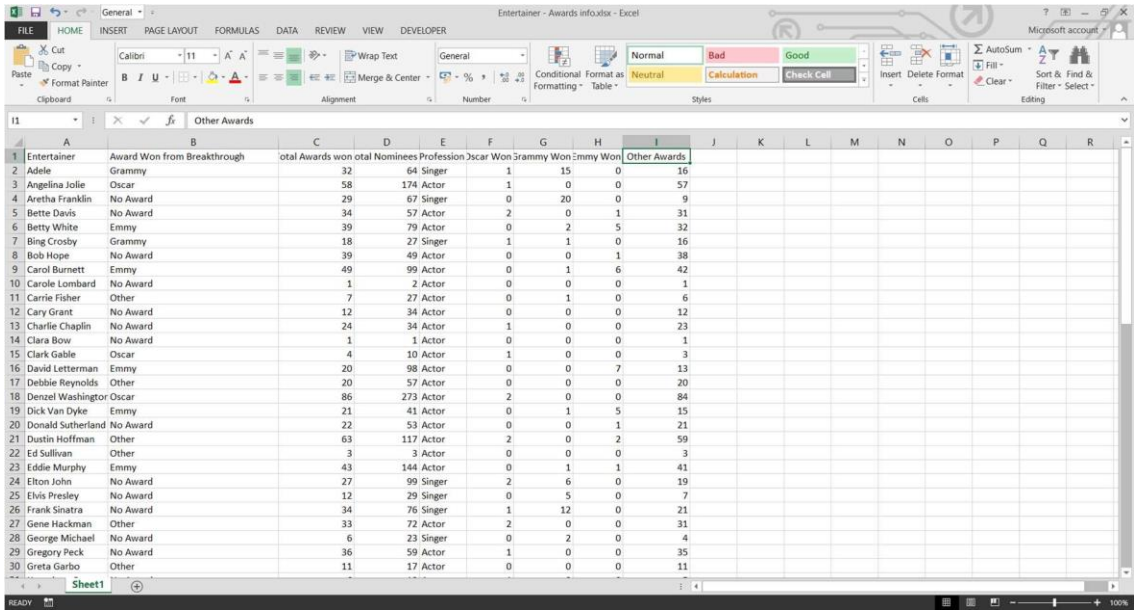
Entertainer	Year of Breakthrough/#1 Hit/Award Nomination	Breakthrough Name	Year of First Oscar/Grammy/Emmy
Adele	2008	19	2009
Angelina Jolie	1999	Girl, Interrupted	1999
Aretha Franklin	1967	I Never Loved a Man (The Way I Love You)	1968
Bette Davis	1934	Of Human Bondage	1935
Betty White	1952	Life with Elilzabeth	1976
Bing Crosby	1931	Several Songs	1962
Bob Hope	1938	The Big Broadcast of 1938	1940
Carol Burnett	1959	The Garry Moore Show	1962
Carole Lombard	1934	Twentieth Century	
Carrie Fisher	1977	Star Wars	
Cary Grant	1933	She Done Him Wrong, I'm No Angel	1970
Charlie Chaplin	1915	The Tramp	1929
Clara Bow	1926	Mantrap	
Clark Gable	1934	It Happened One Night	1934
David Letterman	1982	Late Night with David Letterman	1981
Debbie Reynolds	1952	Singin' in the Rain	
Denzel Washington	1989	Glory	1989
Dick Van Dyke	1961	Bye Bye Birdie, The Dick Van Dyke Show	1964
Donald Sutherland	1967	The Dirty Dozen	1995
Dustin Hoffman	1967	The Graduate	1980
Ed Sullivan	1948	Toast of the Town	1956
Eddie Murphy	1980	Saturday Night Live	2001
Elton John	1972	Honky Chateau	1987
Elvis Presley	1956	Heartbreak Hotel	1959
Frank Sinatra	1940	I'll Never Smile Again	1946
Gene Hackman	1967	Bonnie and Clyde	1971
George Michael	1984	Wake Me Up Before You Go-Go	1988
Gregory Peck	1944	The Keys of the Kingdom	1962
Greta Garbo	1930	Anna Christie	1954

Glimpse of Entertainer – Last work Info:



Entertainer	Year of Last Major Work (arguable)	Year of Death
Adele	2016	
Angelina Jolie	2016	
Aretha Franklin	2014	
Bette Davis	1989	1989
Betty White	2016	
Bing Crosby	1974	1977
Bob Hope	1972	2003
Carol Burnett	2016	
Carole Lombard	1942	1942
Carrie Fisher	2016	2016
Cary Grant	1966	1986
Charlie Chaplin	1967	1977
Clara Bow	1933	1965
Clark Gable	1960	1960
David Letterman	2015	
Debbie Reynolds	2006	2016
Denzel Washington	2016	
Dick Van Dyke	2015	
Donald Sutherland	2016	
Dustin Hoffman	2016	
Ed Sullivan	1973	1974
Eddie Murphy	2016	
Elton John	2016	
Elvis Presley	1977	1977
Frank Sinatra	1980	1998
Gene Hackman	2004	
George Michael	2004	2016
Gregory Peck	1991	2003
Greta Garbo	1941	1990

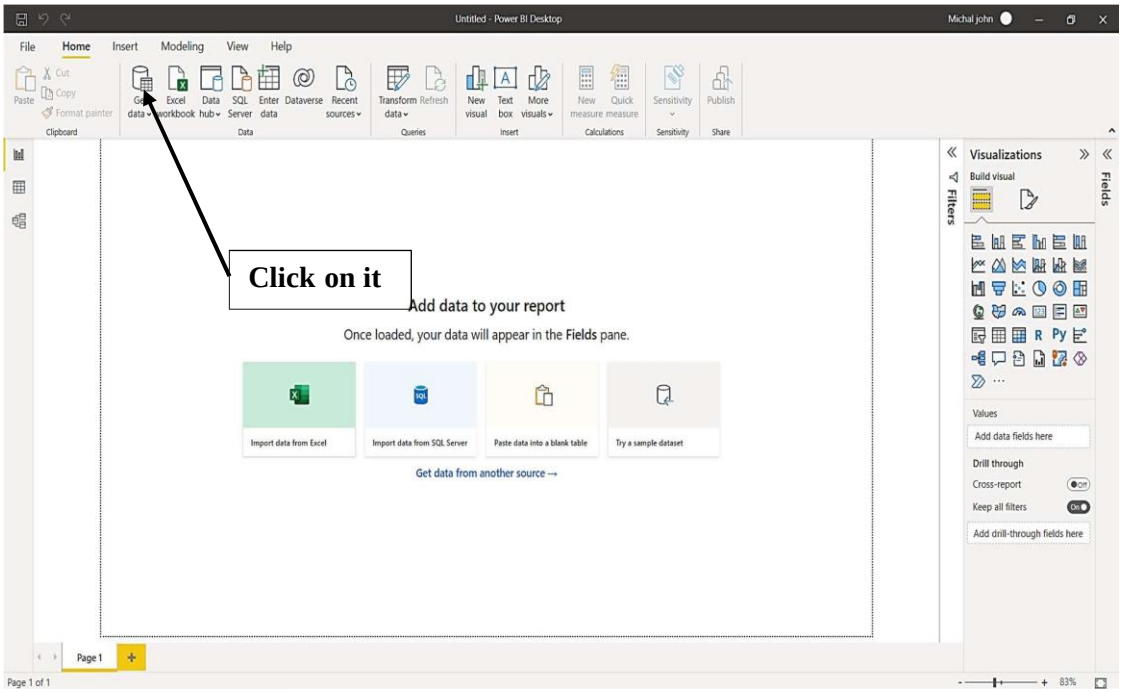
Glimpse of Entertainer – Awards Info:

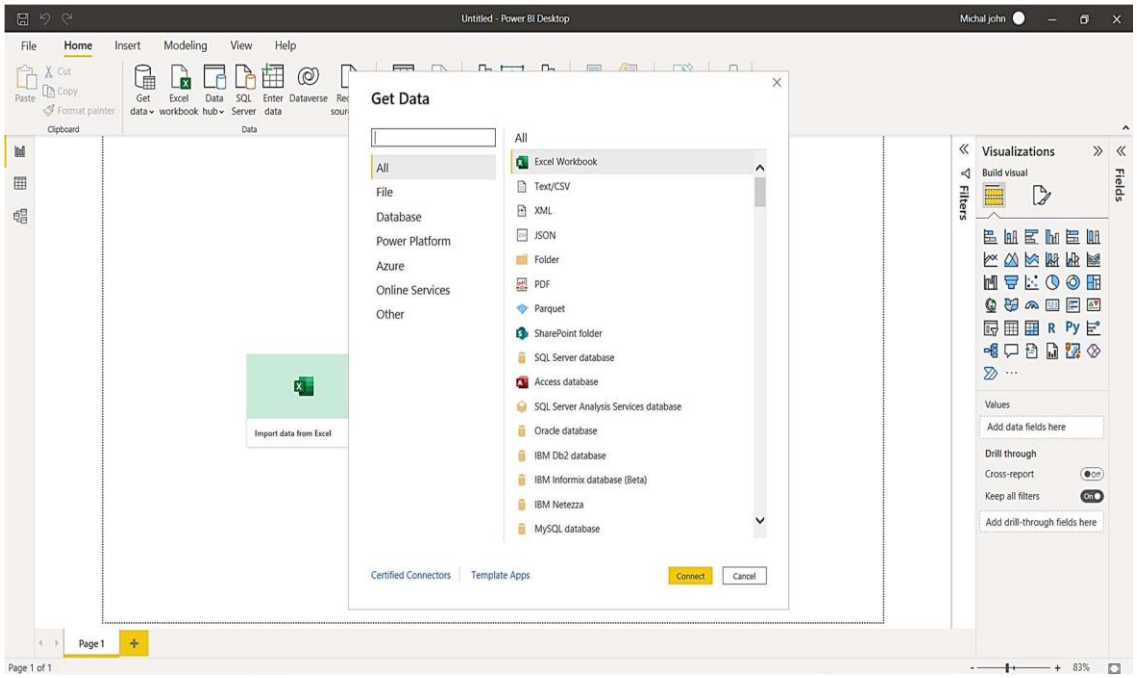


Entertainer	Award Won from Breakthrough	otal Awards won	otal Nominees	Profession	Oscar Won	Grammy Won	Emmy Won	Other Awards
Adele	Grammy	32	64	Singer	1	15	0	16
Angelina Jolie	Oscar	58	174	Actor	1	0	0	57
Aretha Franklin	No Award	29	67	Singer	0	20	0	9
Bette Davis	No Award	34	57	Actor	2	0	1	31
Betty White	Emmy	39	79	Actor	0	2	5	32
Bing Crosby	Grammy	18	27	Singer	1	1	0	16
Bob Hope	No Award	39	49	Actor	0	0	1	38
Carol Burnett	Emmy	49	99	Actor	0	1	6	42
Carole Lombard	No Award	1	2	Actor	0	0	0	1
Carrie Fisher	Other	7	27	Actor	0	1	0	6
Cary Grant	No Award	12	34	Actor	0	0	0	12
Charlie Chaplin	No Award	24	34	Actor	1	0	0	23
Clara Bow	No Award	1	1	Actor	0	0	0	1
Clark Gable	Oscar	4	10	Actor	1	0	0	3
David Letterman	Emmy	20	98	Actor	0	0	7	13
Debbie Reynolds	Other	20	57	Actor	0	0	0	20
Denzel Washingtor	Oscar	86	273	Actor	2	0	0	84
Dick Van Dyke	Emmy	21	41	Actor	0	1	5	15
Donald Sutherland	No Award	22	53	Actor	0	0	1	21
Dustin Hoffman	Other	63	117	Actor	2	0	2	59
Ed Sullivan	Other	3	3	Actor	0	0	0	3
Eddie Murphy	Emmy	43	144	Actor	0	1	1	41
Elton John	No Award	27	99	Singer	2	6	0	19
Elvis Presley	No Award	12	29	Singer	0	5	0	7
Frank Sinatra	No Award	34	76	Singer	1	12	0	21
Gene Hackman	Other	33	72	Actor	2	0	0	31
George Michael	No Award	6	23	Singer	0	2	0	4
Gregory Peck	No Award	36	59	Actor	1	0	0	35
Greta Garbo	Other	11	17	Actor	0	0	0	11

❖ Connect Data to Power BI:

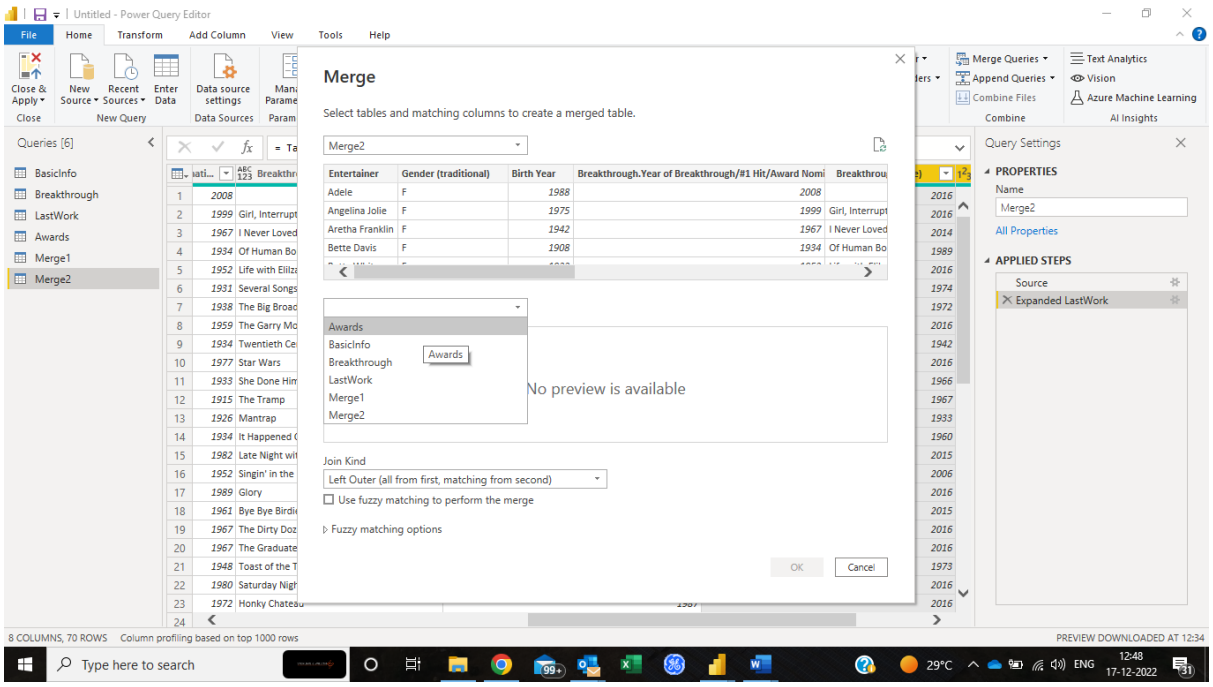
First of all, open Power BI Desktop in your desktop. At first screen there is a get data tab click on it then it show the list of sources then click on that source which you want to connect after connection browse the data then load into power BI desktop

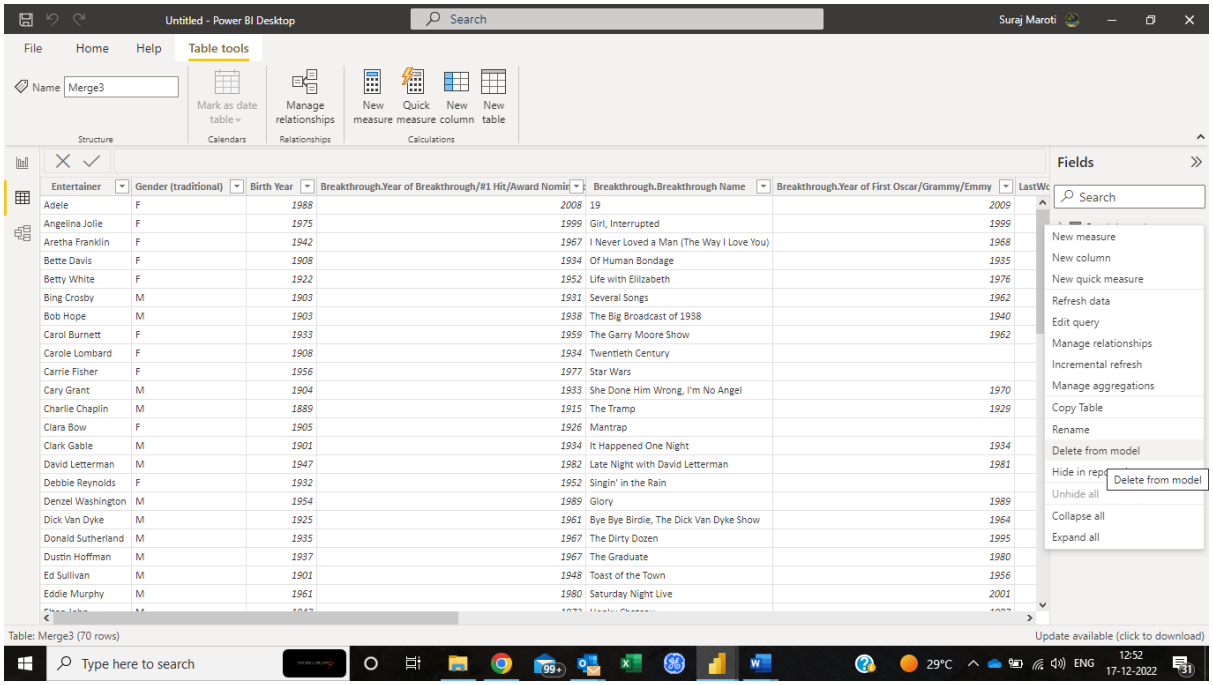


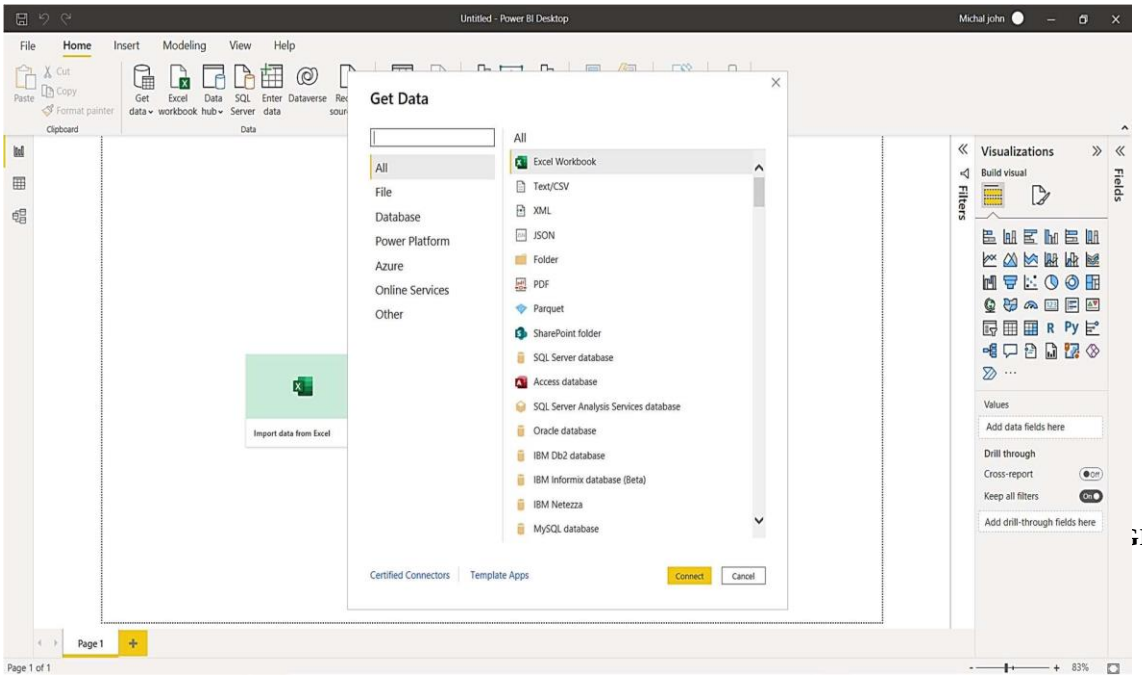


❖ Transform Data for analysis and data cleaning to Power BI:

As we have multiple sheets for our project we load all excel sheets in Power BI and Merge the Sheets in single sheet by using Power query with the join condition, so we need not to look on different sheets we can analyze the data from single sheet and then after data cleaning and go through the data close and apply to go on Power BI desktop for Visualization.






Untitled - Power BI Desktop
Michal John
File
Home
Insert
Modeling
View
Help
Get Data
All
File
Database
Power Platform
Azure
Online Services
Other
Excel Workbook
Text/CSV
XML
JSON
Folder
PDF
Parquet
SharePoint folder
SQL Server database
Access database
SQL Server Analysis Services database
Oracle database
IBM Db2 database
IBM Informix database (Beta)
IBM Netezza
MySQL database
Certified Connectors
Template Apps
Connect
Cancel
Import data from Excel
Visualizations
Build visual
Filters
Fields
Values
Add data fields here
Drill through
Cross-report
Keep all filters
Add drill-through fields here
Page 1
Page 1 of 1
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