

Titanic Survival Prediction

Goal:

To build a model using Titanic dataset that predicts whether a passenger on the Titanic survived or not.

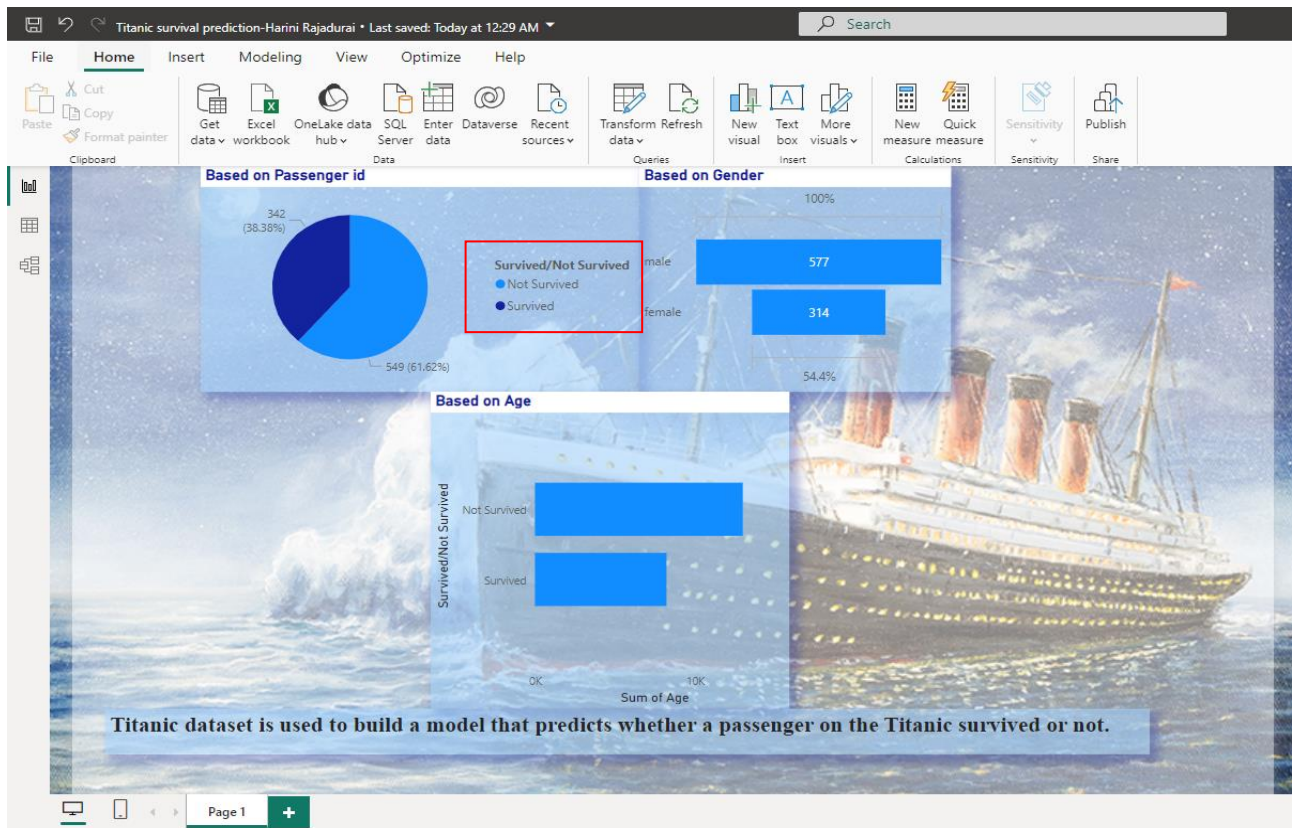
Steps:

In Power BI, Titanic dataset is loaded and transformed to a power query editor and the new conditional column is added which gives whether a passenger survived or not. i.e.,

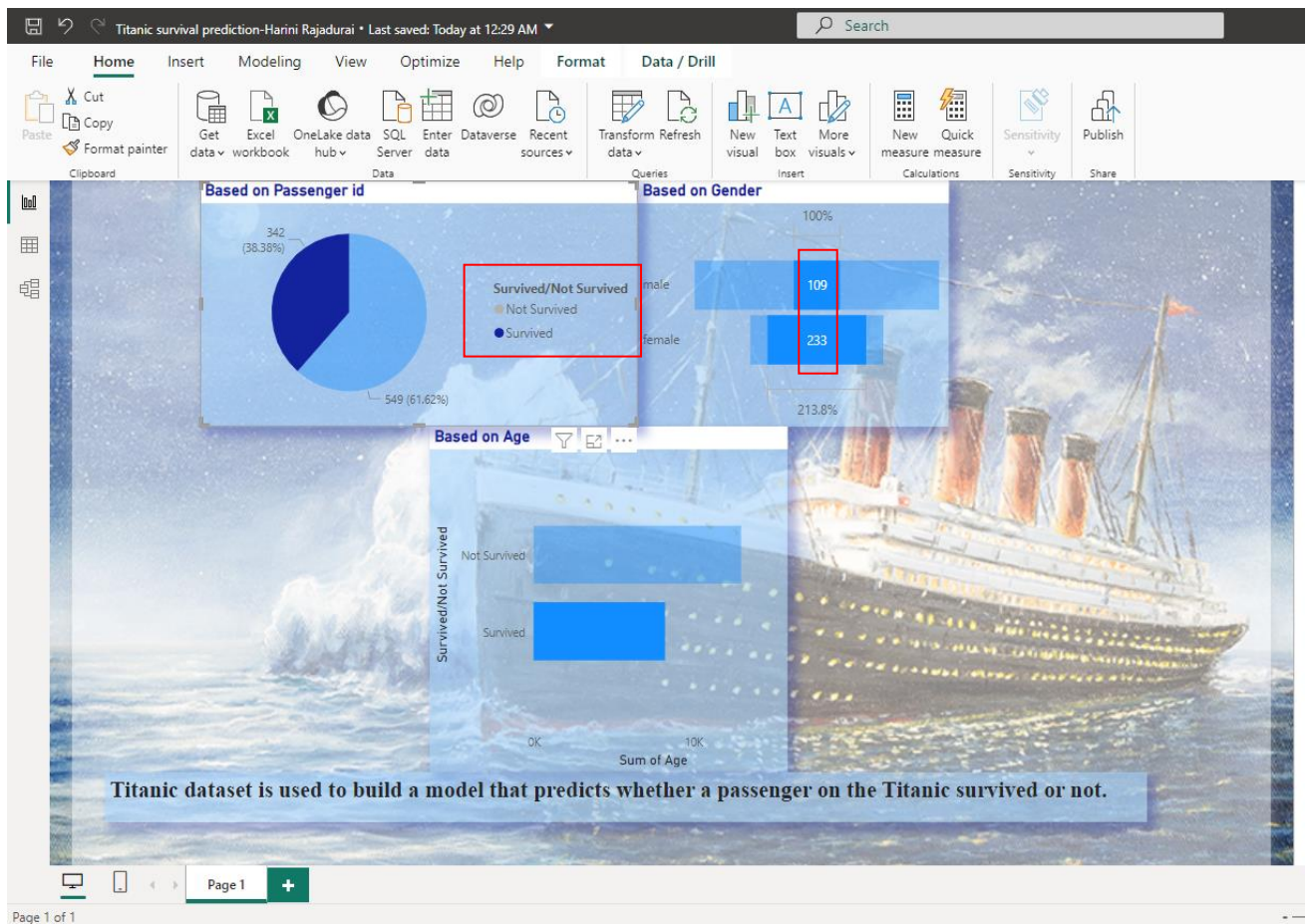
The screenshot shows the Power BI Power Query Editor interface. The main area displays a table with 13 columns: PassengerId, Survived, Survived/Not Survived, Pclass, Name, Sex, Age, SibSp, Parch, Ticket, Fare, Cabin, and Embarked. The 'Survived/Not Survived' column is highlighted with a red box, indicating it is the new conditional column added. The table contains 891 rows of data. The right-hand pane shows the 'APPLIED STEPS' list, which includes 'Reordered Columns' as the final step. The bottom status bar indicates '13 COLUMNS, 891 ROWS' and 'Column profiling based on top 1000 rows'.

PassengerId	Survived	Survived/Not Survived	Pclass	Name	Sex
1	0	Not Survived	3	Braund, Mr. Owen Harris	male
2	1	Survived	1	Cummings, Mrs. John Bradley (Florence Briggs Thayer)	female
3	1	Survived	3	Heikkinen, Miss. Laina	female
4	1	Survived	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female
5	0	Not Survived	3	Allen, Mr. William Henry	male
6	0	Not Survived	3	Moran, Mr. James	male
7	0	Not Survived	1	McCarthy, Mr. Timothy J	male
8	0	Not Survived	3	Palsson, Master. Gosta Leonard	male
9	1	Survived	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female
10	1	Survived	2	Nasser, Mrs. Nicholas (Adele Achem)	female
11	1	Survived	3	Sandstrom, Miss. Marguerite Rut	female
12	1	Survived	1	Bonnell, Miss. Elizabeth	female
13	0	Not Survived	3	Saunderscock, Mr. William Henry	male
14	0	Not Survived	3	Andersson, Mr. Anders Johan	male
15	0	Not Survived	3	Vestrom, Miss. Hulda Amanda Adolfina	female
16	1	Survived	2	Hewlett, Mrs. (Mary D Kingcome)	female
17	0	Not Survived	3	Rice, Master. Eugene	male
18	1	Survived	2	Williams, Mr. Charles Eugene	male
19	0	Not Survived	3	Vander Planke, Mrs. Julius (Emelia Maria Vandemoortele)	female
20	1	Survived	3	Maslemanni, Mrs. Fatima	female
21	0	Not Survived	2	Fynney, Mr. Joseph J	male
22	1	Survived	2	Beesley, Mr. Lawrence	male
23	1	Survived	3	McGowan, Miss. Anna "Annie"	female
24	1	Survived	1	Sloper, Mr. William Thompson	male
25	0	Not Survived	3	Palsson, Miss. Torborg Danira	female
26	1	Survived	3	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johansson)	female
27	0	Not Survived	3	Emir, Mr. Farred Chehab	male
28	0	Not Survived	1	Fortune, Mr. Charles Alexander	male
29	1	Survived	3	O'Dwyer, Miss. Ellen "Nellie"	female

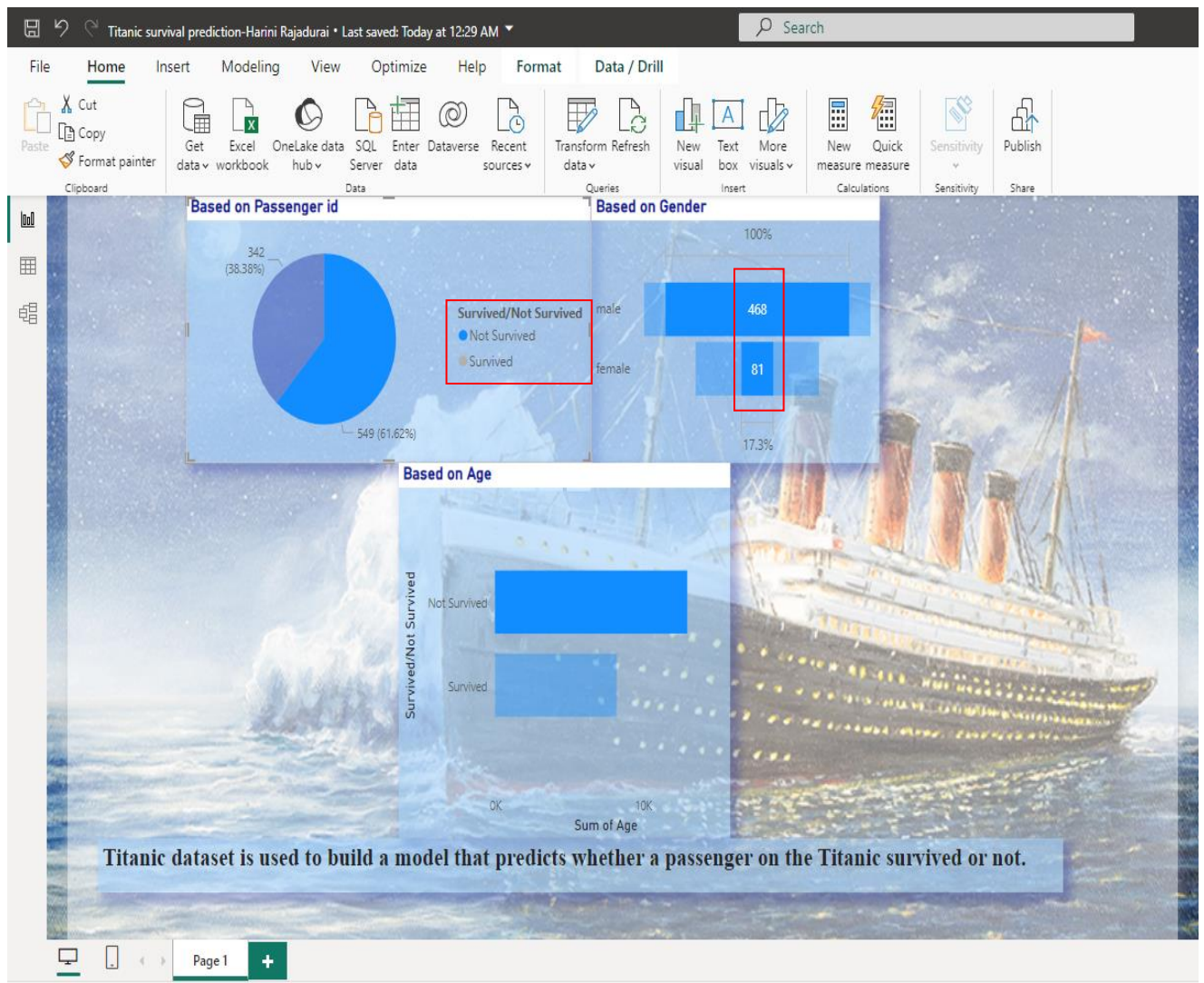
Dataset is ready to create visuals. Therefore, three visuals are created in Power BI report page. Data visuals predicts whether a passenger survived or not based on Passenger id, Gender and Age which is given below:



Below output clearly gives how many passengers are survived.



Below output clearly gives how many passengers are not survived.



Conclusion:

The sinking of the Titanic is one of the most infamous shipwrecks in history. On April 15, 1912, during her maiden voyage, the widely considered “unsinkable” RMS Titanic sank after colliding with an iceberg. Unfortunately, there weren’t enough lifeboats for everyone on board, resulting in the death of 1502 out of 2224 passengers and crew. Titanic dataset is used to build a model that predicts whether a passenger on the Titanic survived or not.