

DATA VISUALIZATION PROJECT REPORT

(Project Semester January - May 2023)



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P ROFESSIONAL
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MISSION LAUNCHES

Submitted by

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**Programme : Bachelor of Computer Science &
Engineering**

Course Code : INT 233

Under the Guidance of

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Discipline of CSE

**Lovely School of Computer Science
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DECLARATION

I amSonu Kumar Chakravarti...., student of ...Computer Science... under CSE/IT Discipline at, Lovely Professional University, Punjab, hereby declare that all the information furnished in this project report is based on my own intensive work and is genuine.

Date:12/04/2023

Signature

Registration No.12019857.....

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CERTIFICATE

This is to certify thatSonu Kumar Chakravarti..... bearing Registration no.12019857..... has completedINT 233..... project titled, “....MISSION LAUNCHES...” under my guidance and supervision. To the best of my knowledge, the present work is the result of his/her original development, effort and study.

Signature and Name of the Supervisor

Designation of the Supervisor

School of ...Computer Science...

Lovely Professional University

Phagwara, Punjab.

Date: 12 /04/2023

Acknowledgement

It gives me a great sense of pleasure to present the report of the Project Work undertaken during B. Tech. 3rd Year. I owe special debt of gratitude to my Project Teacher Ms Nidhi Arora , Department of CSE, SCRIPET Lovely Professional University, Punjab for she constant support and guidance throughout the course of my work. It is only her cognizant efforts that my endeavors have seen light of the day. My deepest thanks to my Project Guide Ms Nidhi Arora , the Guide of the project for guiding and correcting various documents of mine with attention and care. I also take the opportunity to acknowledge. I also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind assistance and cooperation during the development of my project. Last but not the least, I acknowledge my friends for their contribution in the completion of the project.

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INTRODUCTION

What is Tableau ?

Ans. : **Tableau** is a powerful and fastest growing data visualization tool used in the Business Intelligence Industry. It helps in simplifying raw data in a very easily understandable format. Tableau helps create the data that can be understood by professionals at any level in an organization. It also allows non-technical users to create customized dashboards.

Data analysis is very fast with Tableau tool and the visualizations created are in the form of dashboards and worksheets.

Tableau Uses:

Usage of Tableau software are listed below:

- Business Intelligence
- Licensing Views
- ETL Refresh and many more make Tableau one of the most famous Data Visualization tools.

What is data science?

- Data science combines math and statistics, specialized programming, advanced

- Data Visualization
- Data Binding
- Data Collaboration
- Query translation into visualization
- To create no-code data queries
- Real-time data analysis
- To manage large size metadata
- To import large size of data

Features of Tableau:

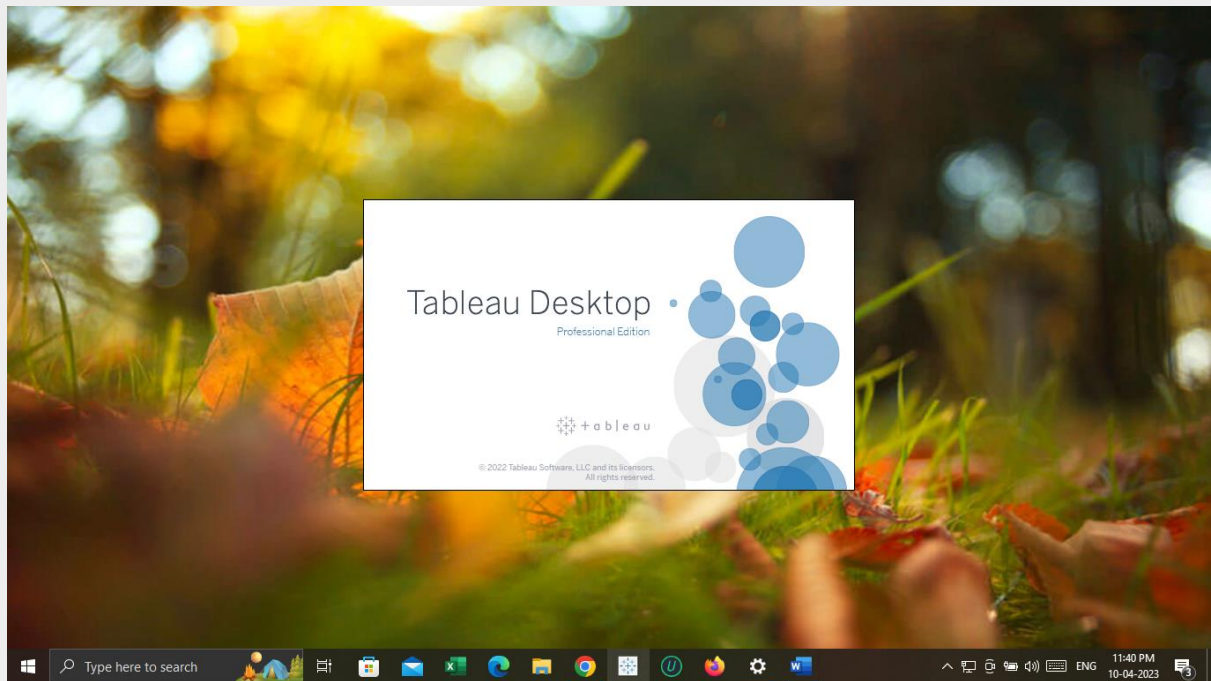
- Tableau Dashboard
- Collaboration and Sharing
- Live and In-memory Data
- Data sources in Tableau
- Advanced Visualizations
- Mobile View
- Revision History
- Subscribe others

analytics, artificial intelligence (AI), and machine learning with specific subject matter expertise to uncover actionable insights hidden in an organization's data. These insights can be used to guide decision making and strategic planning.

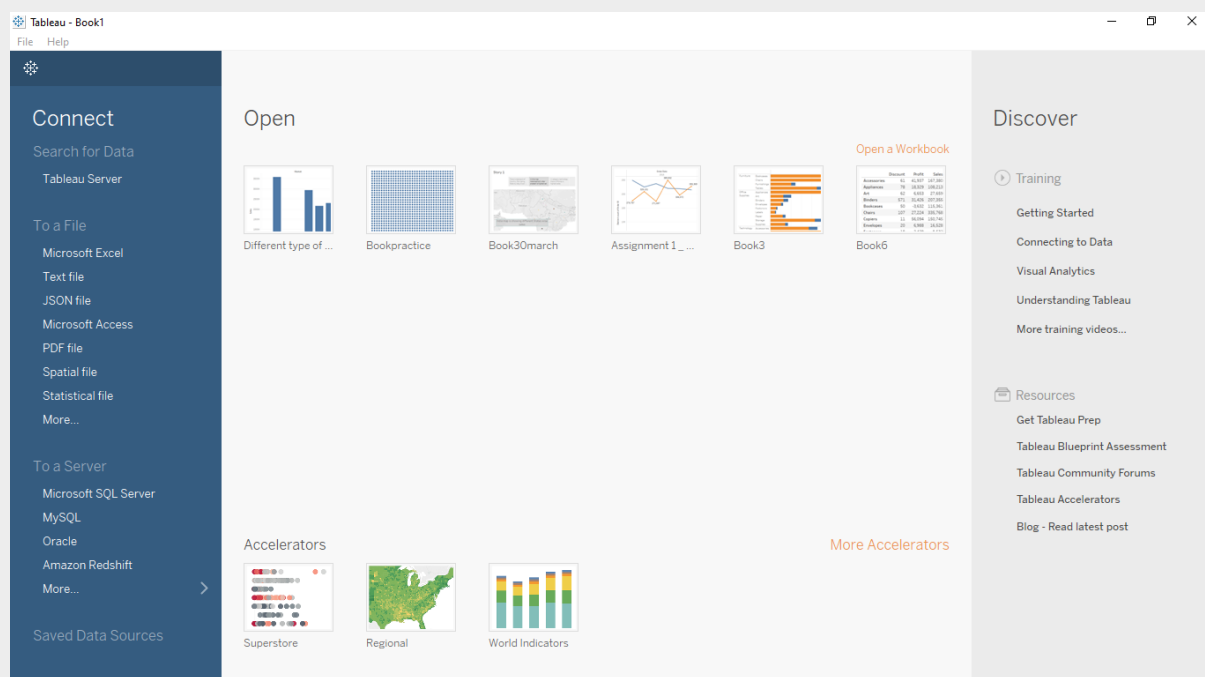
Dataset name of Dashboard – ‘Mission LAUNCHES’

Let’s create Dashboard with the help of Tableau:

Step : 1 Open Tableau first and add dataset file through Data Source.



- I have chosen Microsoft Excel file.CSV file name Mission_launches.csv and changed name into ‘Mission launches12019857’



- This is excel dataset which I have using here

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1		Unnamed Organisati	Location	Date	Detail	Rocket	St	Price	Mission_Status												
2	0	0	SpaceX	LC-39A, K	Fri Aug 07	Falcon 9 B	StatusActi	50	Success												
3	1	1	CASC	Site 9401	Thu Aug 0	Long Marc	StatusActi	29.75	Success												
4	2	2	SpaceX	Pad A, Boc	Tue Aug 0	Starship P	StatusActive		Success												
5	3	3	Roscosmo	Site 200/3	Thu Jul 30	Proton-M	StatusActi	65	Success												
6	4	4	ULA	SLC-41, Ca	Thu Jul 30	Atlas V 54	StatusActi	145	Success												
7	5	5	CASC	LC-9, Taiyi	Sat Jul 25,	Long Marc	StatusActi	64.68	Success												
8	6	6	Roscosmo	Site 31/6,	Thu Jul 23	Soyuz 2.1a	StatusActive	48.5	Success												
9	7	7	CASC	LC-101, W	Thu Jul 23	Long Marc	StatusActive		Success												
10	8	8	SpaceX	SLC-40, Ca	Mon Jul 21	Falcon 9 B	StatusActi	50	Success												
11	9	9	JAXA	LA-Y1, Tan	Sun Jul 19	H-IIA 202	StatusActi	90	Success												
12	10	10	Northrop	LP-0B, Wa	Wed Jul 1	Minotaur	StatusActi	46	Success												
13	11	11	ExPace	Site 95, Ji	Fri Jul 10,	Kuaizhou	StatusActi	28.3	Failure												
14	12	12	CASC	LC-3, Xichi	Thu Jul 09	Long Marc	StatusActi	29.15	Success												
15	13	13	IAI	Pad 1, Pali	Mon Jul 0	Shavit-2	StatusActive		Success												
16	14	14	CASC	Site 9401	Sat Jul 04,	Long Marc	StatusActi	29.75	Success												
17	15	15	Rocket Lal	Rocket Lal	Sat Jul 04,	Electron/C	StatusActi	7.5	Failure												
18	16	16	CASC	LC-9, Taiyi	Fri Jul 03,	Long Marc	StatusActi	64.68	Success												
19	17	17	SpaceX	SLC-40, Ca	Tue Jun 3	Falcon 9 B	StatusActi	50	Success												
20	18	18	CASC	LC-2, Xichi	Tue Jun 2	Long Marc	StatusActi	29.15	Success												
21	19	19	CASC	Site 9401	Wed Jun 1	Long Marc	StatusActi	29.75	Success												
22	20	20	SpaceX	SLC-40, Ca	Sat Jun 13	Falcon 9 B	StatusActi	50	Success												

Step : 2 Bring that dataset in connections and click on new sheet, also edit name 'Date by Mission launches'

Tableau - Bookpractice [Recovered]

File Data Server Window Help

Connections: mission_launches (Text file)

Files: mission_launches.csv

mission_launches

Connection: ☒ Live ☐ Extract

Filters: 0 | Add

Need more data? Drag tables here to relate them. [Learn more](#)

mission_launches.csv 9 fields 4324 rows 100 rows

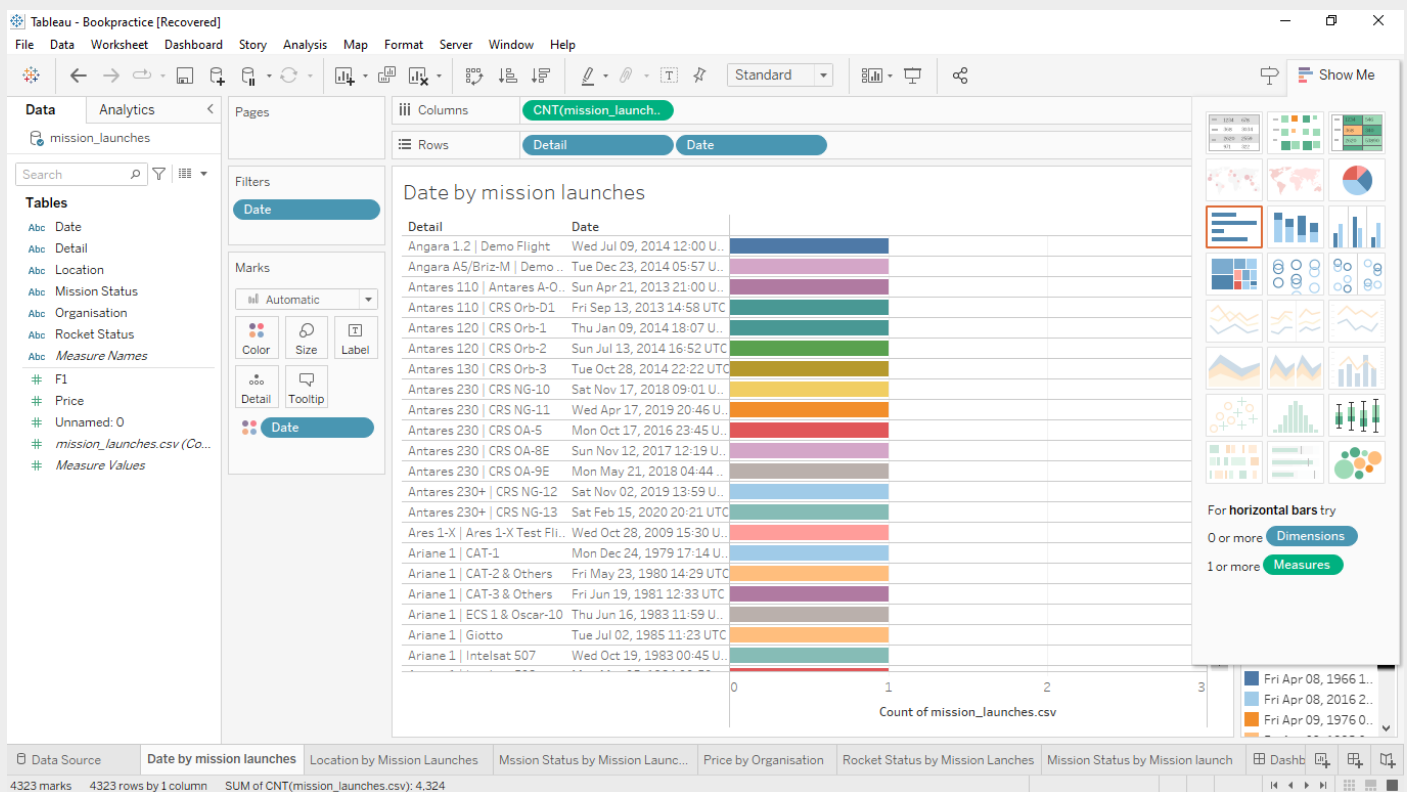
Name	Type	Field Name	Physical Table	Remot...
mission_launches.csv	#	F1	mission_launches.csv	F1
	#	Unnamed: 0	mission_launches.csv	Unname...

#	#	Abc	Abc	Abc
mission_launches.csv	mission_launches.csv	mission_launches.csv	mission_launches.csv	mission_laun
F1	Unnamed: 0	Organisation	Location	Date
0	0	SpaceX	LC-39A, Kennedy Space Cent...	Fri Aug 07
1	1	CASC	Site 9401 (SLS-2), Jiuquan S...	Thu Aug C
2	2	SpaceX	Pad A, Boca Chica, Texas, USA	Tue Aug 0
3	3	Roscosmos	Site 200/39, Baikonur Cosm...	Thu Jul 30
4	4	ULA	SLC-41, Cape Canaveral AFS...	Thu Jul 30

Data Source Price by date Price by location Price by Mission Price by Organisation Price by Rocket Mission by Mission launch Dashboard 1 Story 1

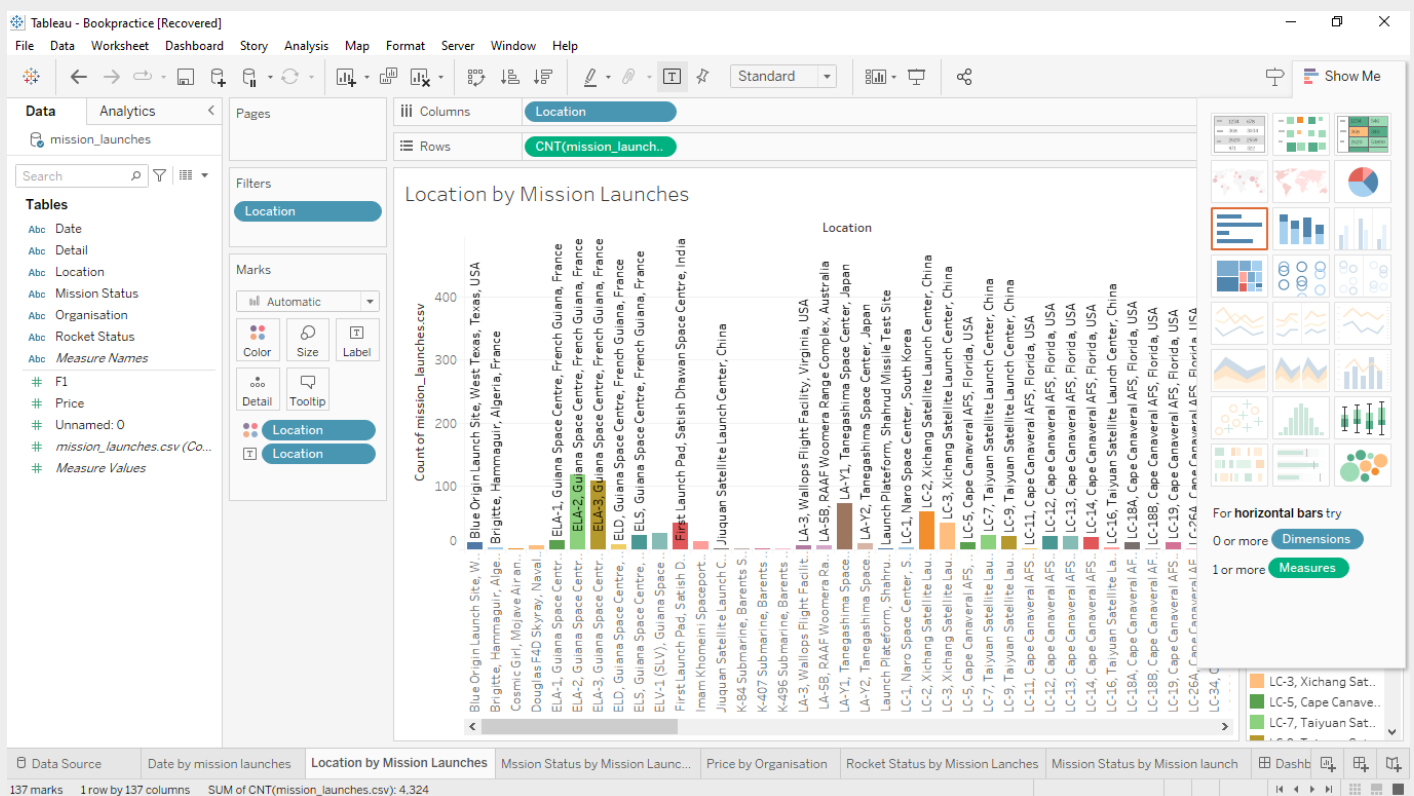
Step : 3 Follow these steps :

- Bring Mission_launches in Column.
- Bring Detail and Date in row.
- Bring date in Filter.
- Bring date in Color.
- Select any map (Show me at right corner) and analyze.



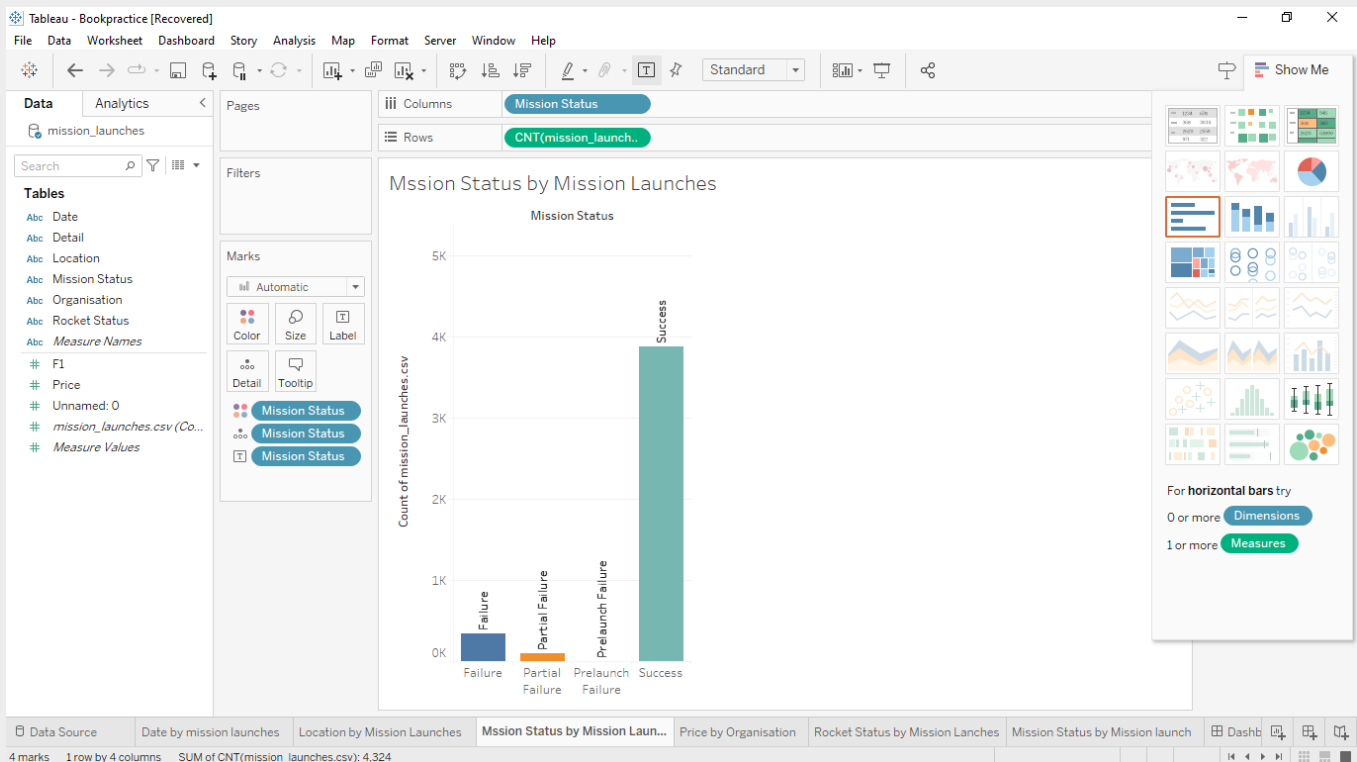
Step : 4 Follow these steps –

- First bring location in columns cell.
- Bring mission_launches in rows cell.
- Bring location in filter.
- Labeled location.
- Bring location in color.
- Now you can see there is at different location mission launches, then analyze that.



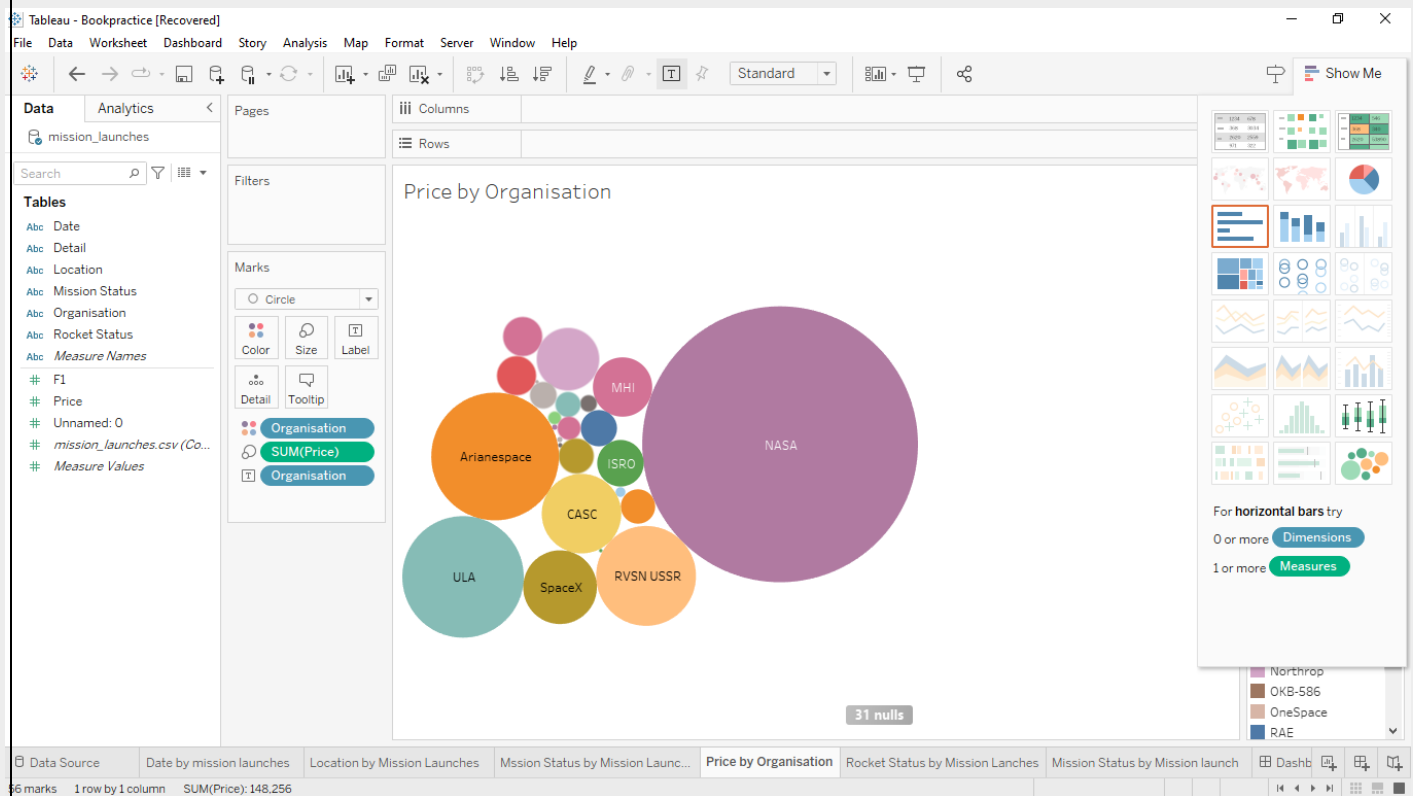
Step : 5 Follow these steps –

- First bring Mission status in Columns cell.
- Bring mission_launches in row cell.
- Bring mission status in color, label and detail.
- Now you can see every mission launches status there , how many failure and successes.



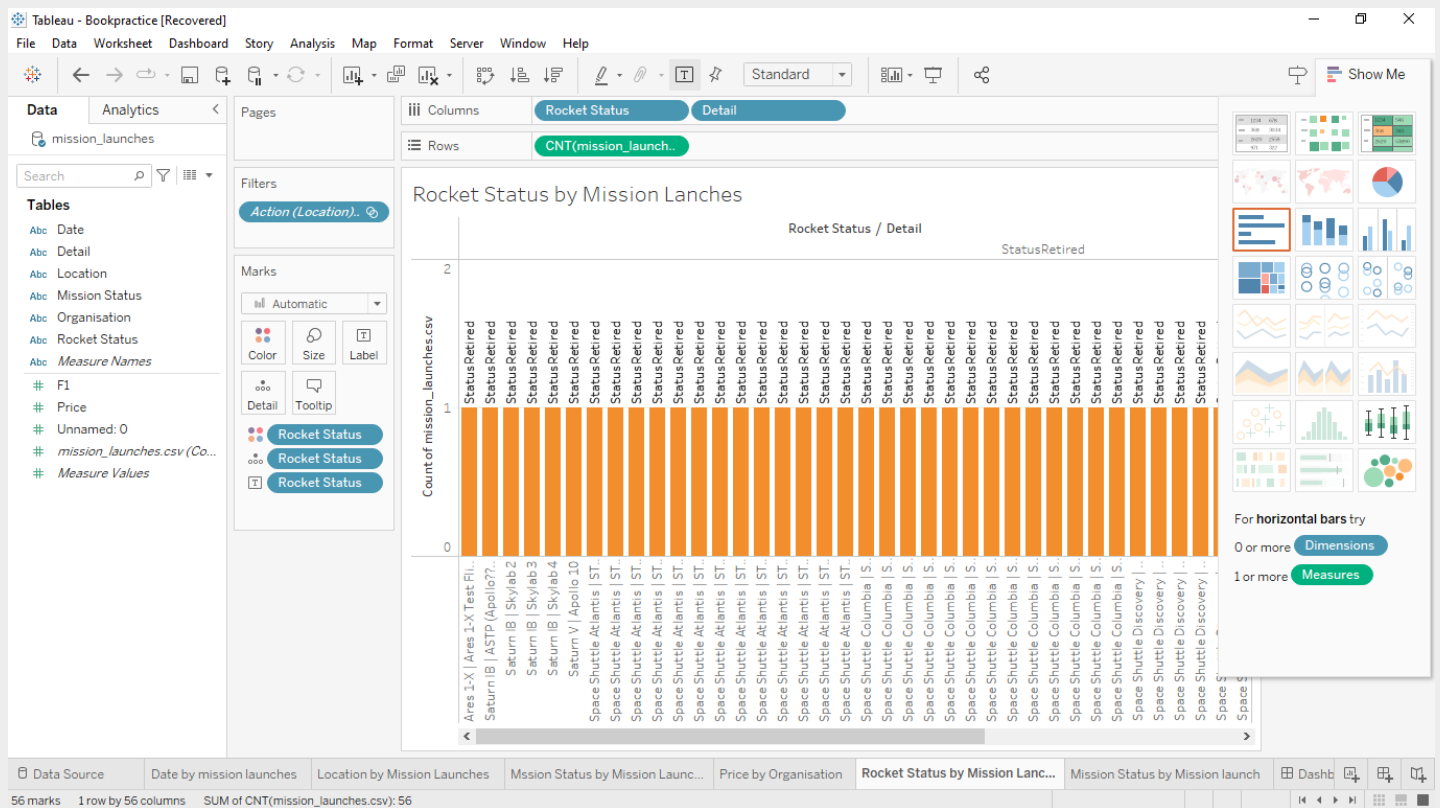
Steps : 6 Follow these steps –

- First bring Organisation in Columns cell.
- Bring price in row cell.
- Put organisation in color and Label.
- Put price in size.
- Now you can see



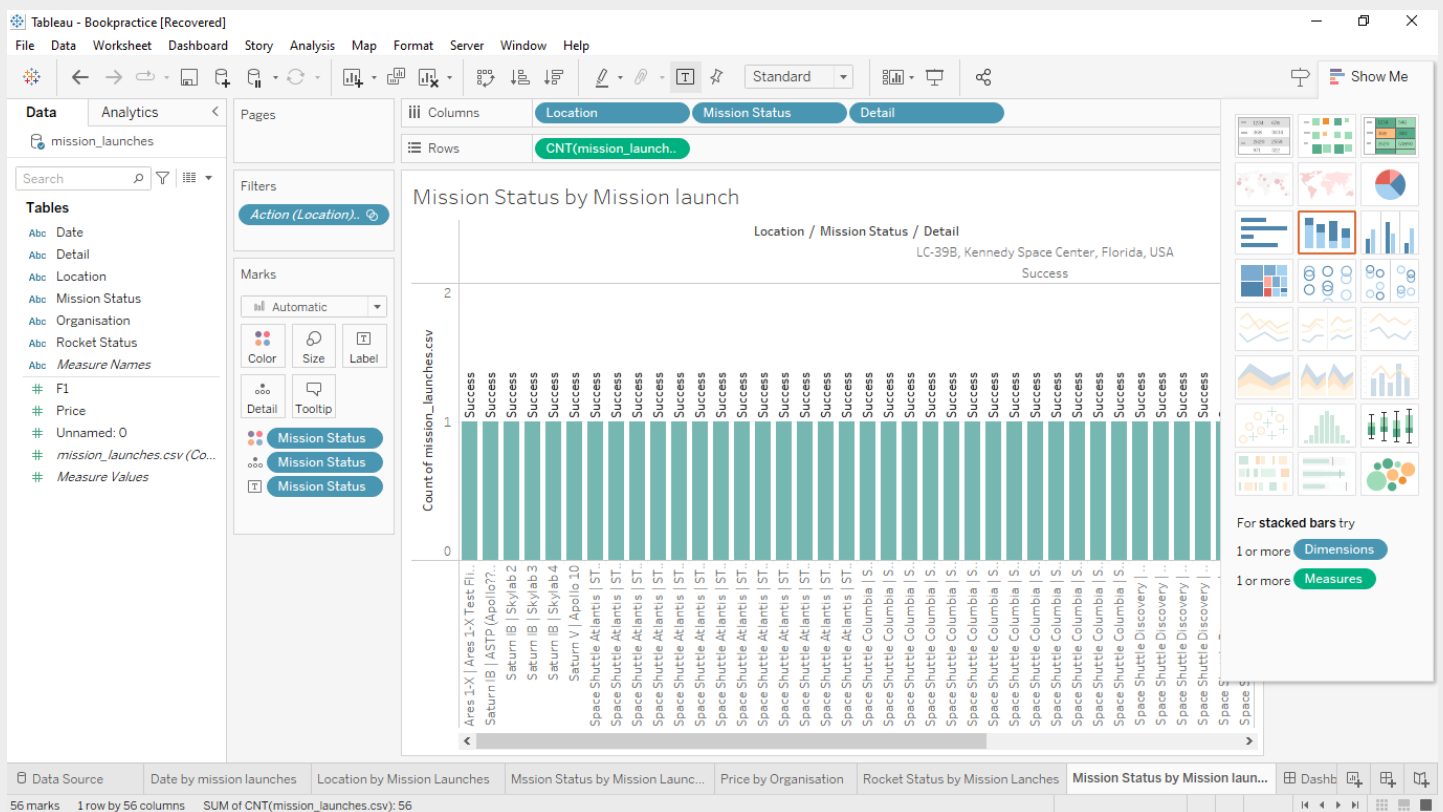
Steps : 7 Follow these steps –

- First bring Rocket Status and detail in column cell.
- Bring Mission _launches in row cell.
- Color, labeled and detail Rocket Status.
- Now anyalys that.

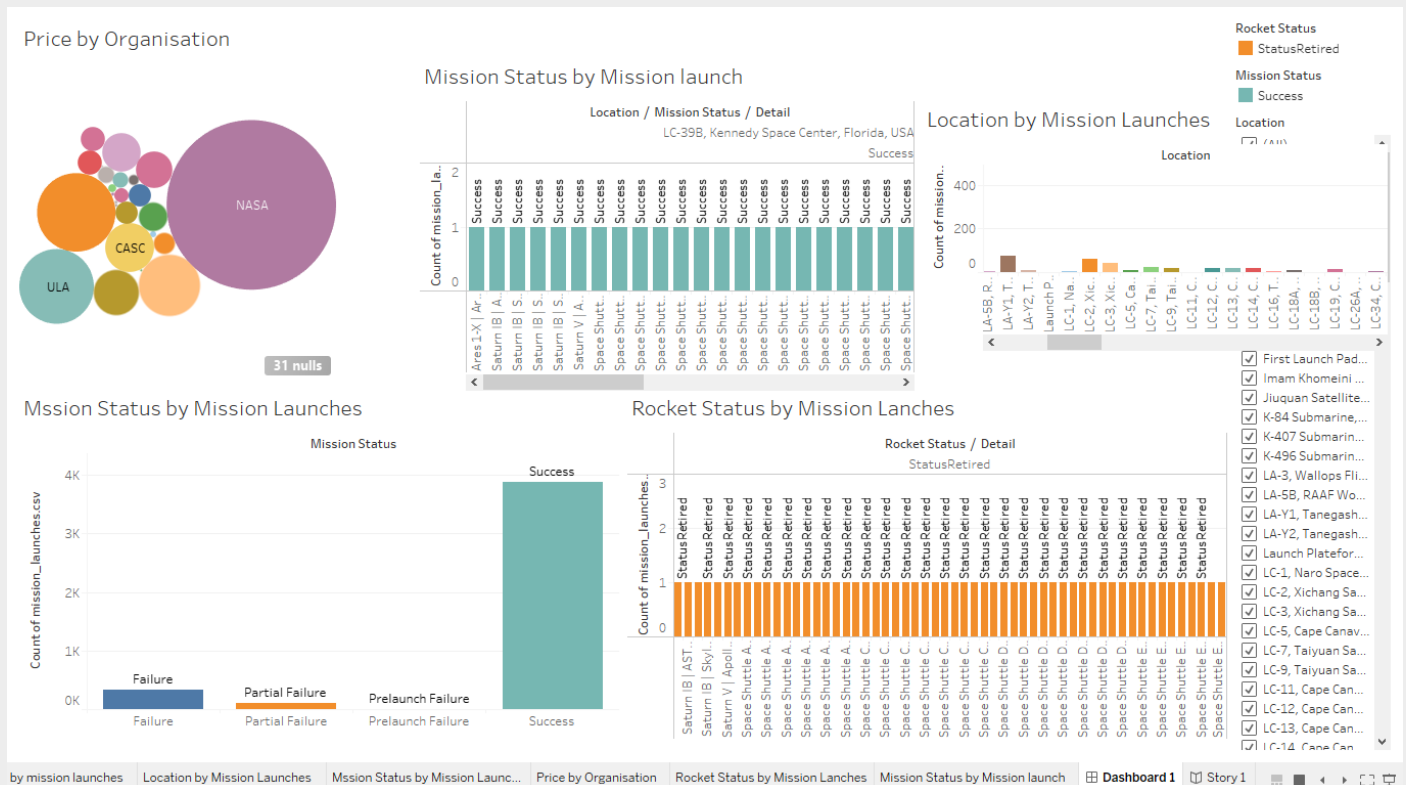


Steps : 8 Follow These Steps-

- Bring location, mission status and details in column cell.
- Bring mission_launches in row cell.
- Color, details, and labeled mission status.
- Then analyse how many success.



Steps : 9 Final Dashboard Result



Here in this dashboard different types of status showing such as –

- Price by Organization.
- Mission Status by Mission launches.
- Location by Mission launches.
- Rocket Status by Mission Launches.

Conclusion :

We have created lots of data sheet with the help of dataset excel file and we have analyse different kinds mission launches by location ,how many missions failure and hoe many successes. And last we have created dashboard and anlysed all the data sheet with together.

Thank You.