

Assignment:

Study different charts and maps used in information visualization such as proportional symbol maps, scatterplots, histograms, heat maps, choropleth maps, dendrograms, parallel component plots, etc and apply standard ways of visualizing data. Prepare a “dashboard” using any visualization tools.

Problem Domain

Choose your interesting problem domain (Examples listed below for reference)

Examples:

Poverty, Childhood Obesity, Health Care, Financial Analysis, Disaster Management (floods, earthquake, forest fire etc.), Immigration Stresses, Sports, Agriculture etc.

Note:

Dataset can either created manually or downloaded from repositories

Make your visualizations be sure to add the necessary elements to make them nicely finished presentations includes title, axis, annotations, sorting and coloring/highlighting.

Submission Guidelines:

Dashboard should be interactive and includes different types of data like tables, network, spatial, temporal and stream data.

Problem Definition:

The Covid-19 pandemic has severely affected India, resulting in thousands of deaths and millions of infections. In this context, the government and health organizations are constantly tracking and monitoring the spread of the virus. To aid in this effort, Tableau dashboards have been created to provide real-time data on the number of cases, deaths, recoveries, and other related information.

The main problem being addressed by the Covid-19 in India dashboard analysis in Tableau is to provide accurate and reliable data to the government and health organizations to help them make informed decisions regarding the pandemic. This includes identifying hotspots, monitoring trends, and implementing measures to prevent the spread of the virus.

DATASET:

download the csv files

State/Union	Confirmed	Deaths	Cured	Confirmed	First Dose Ac	Second Dose	Covaxin (Do	CoviShield (C
Telangana	1	0	0	0	1	7687352	20859	579
Kerala	3	0	0	0	3	7710367	21911	635
Delhi	1	0	0	0	1	8111162	142489	1299
Telangana	1	0	0	0	1	8337600	239626	3017
Rajasthan	0	1	0	0	1	8704698	318541	3946
Kerala	3	0	3	0	3	8862491	475776	5367
Delhi	1	0	0	0	1	9523567	717941	8128
Uttar Prades	6	0	0	0	6	9734505	884608	11192
Kerala	3	0	3	0	3	9757217	893795	13156
Haryana	0	2	0	0	2	10069263	1174416	18858
Delhi	1	0	0	0	1	10288293	1309475	19604
Telangana	1	0	0	0	1	10517568	1525390	27377
Rajasthan	1	14	0	0	15	10846192	1972882	36921
Delhi	2	0	0	0	2	11141375	2419557	43604
Haryana	0	2	0	0	2	11141426	2419557	48300
Kerala	3	0	3	0	3	11141651	2419557	58890
Rajasthan	1	14	0	0	15	11141651	2419557	69372
Telangana	1	0	0	0	1	11886320	2647634	76794
Uttar Prades	7	0	0	0	7	12553326	2830557	86001
Delhi	3	0	0	0	3	13393538	3142165	99015
Haryana	0	2	0	0	2	14415912	3455761	133911
Kerala	3	0	3	0	3	15438495	3732333	195504
Rajasthan	1	14	0	0	15	15541529	3747137	206130
Uttar Prades	7	0	0	0	7	16976138	4062362	290785
Telangana	1	0	0	0	1	14003206	4357037	363692

lab	state	TotalSample	Negative	Positive
ICMR-Regior	Andaman an	1403	1210	3794
Tomo Riba Ir	Arunachal Pr	2679	163139	3803
Sri Venkates	Andhra Prade	2848	171755	3821
Rangaraya M	Andhra Prade	3754	179126	3835
Sidhartha M	Andhra Prade	6677	189823	3848
Government	Andhra Prade	6965	199059	3858
Guntur Medi	Andhra Prade	7082	208247	3868
Rajeev Gand	Andhra Prade	7167	217183	3884
Andhra Medi	Andhra Prade	7263	236618	3899
Gauhati Mec	Assam	7327	246279	3912
Regional Me	Assam	7327	255961	3935
Jorhat Medic	Assam	7363	265052	3952
Silchar Medi	Assam	7448	273099	3976
Fakhruddin M	Assam	7499	281452	3992
Tezpur Medi	Assam	7519	290255	4005
Rajendra Me	Bihar	7567	301529	4023
Indira Gandh	Bihar	7567	311680	4036
Patna Medic	Bihar	7706	319731	4046
Darbhanga M	Bihar	7805	329261	4062
S K Medical	Bihar	8086	338991	4072
All India Inst	Bihar	8295	350544	4083
Post Graduat	Chandigarh	8413	359917	4108
Government	Chandigarh	8694	369177	4126
CSIR - Institu	Chandigarh	9037	379639	4141
All India Inst	Chhattisgarh	9242	391890	4168
Late Baliram	Chhattisgarh	9341	399776	4184

AgeGroup	TotalCases	Percentage
0-9	22	3.18%
Oct-19	27	3.90%
20-29	172	24.86%
30-39	146	21.10%
40-49	112	16.18%
50-59	77	11.13%
60-69	89	12.86%
70-79	28	4.05%
>=80	10	1.45%
Missing	9	1.30%

SOURCE CODE/ DETAILED STEPS TO MAKE DASHBOARD:

Step 1: Connect to Data

The first step is to connect to the data source. In Tableau, go to "Connect" and choose the appropriate data source, such as an Excel file or a database.

Step 2: Create Worksheets

Next, create worksheets that will be used in the dashboard. These worksheets can include charts, tables, and maps.

Step 3: Organize Worksheets

Organize the worksheets on a Tableau dashboard by dragging and dropping them onto the canvas. Use the formatting options to adjust the size, position, and layout of each worksheet.

Step 4: Add Interactivity

Add interactivity to the dashboard by using filters, actions, and parameters. These can be used to create dynamic and interactive visualizations that respond to user input.

Step 5: Add Text and Images

Add text and images to the dashboard to provide context and enhance the overall design. This can include titles, captions, and logos.

Step 6: Publish and Share

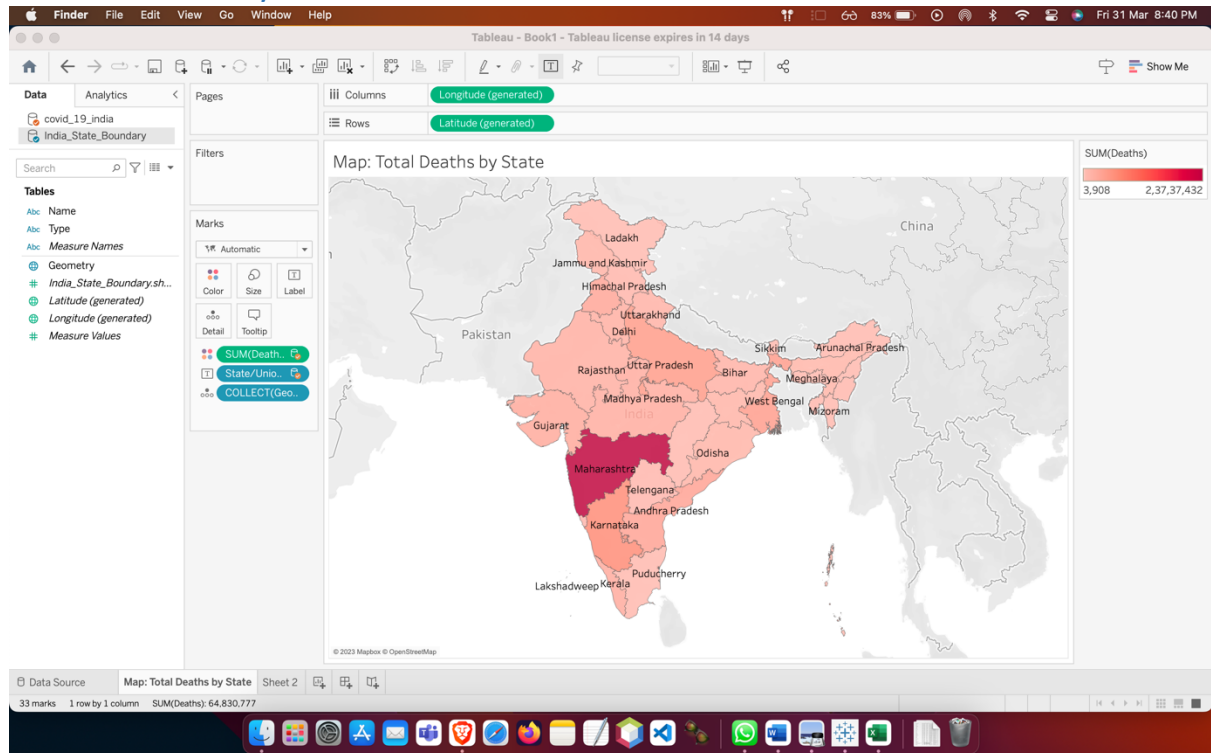
Once the dashboard is complete, publish it to Tableau Server or Tableau Online so that others can access it. Share the dashboard with others by embedding it on a website or sharing a link.

Step 7: Update and Maintain

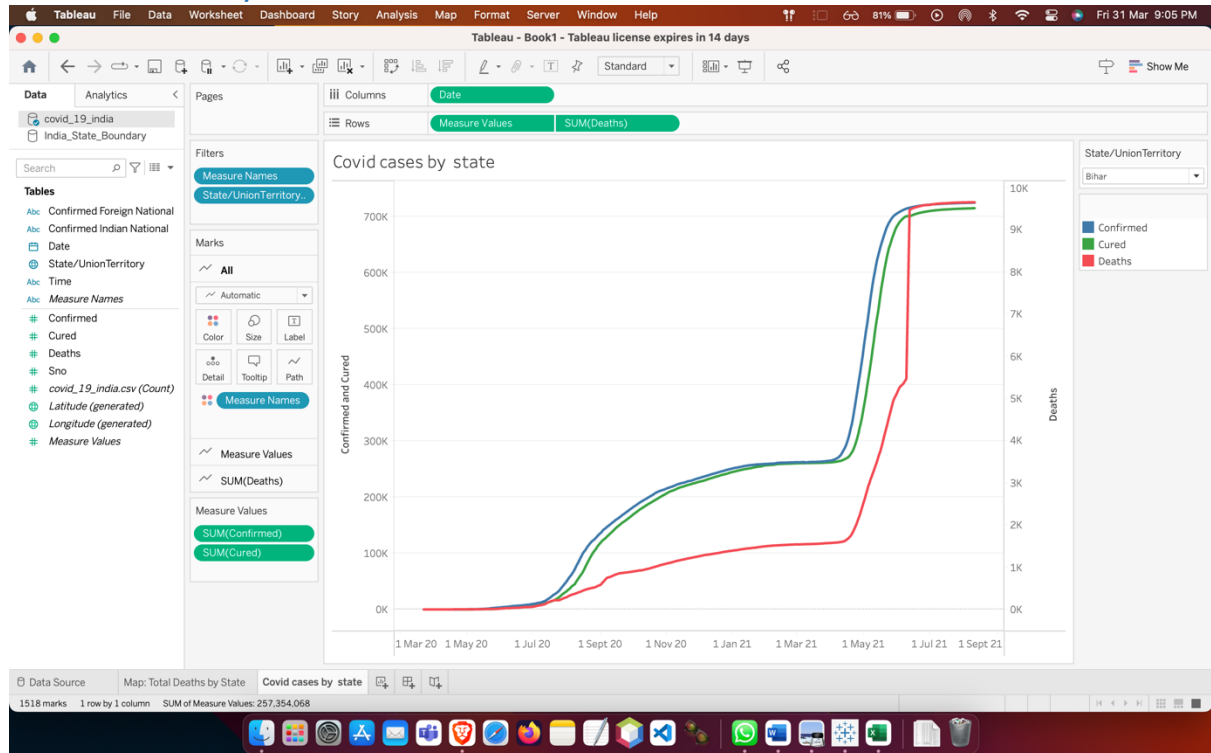
Finally, update and maintain the dashboard as new data becomes available or as user needs change. This can include adding new worksheets or modifying existing ones.

Tasks to do and their visualizations:

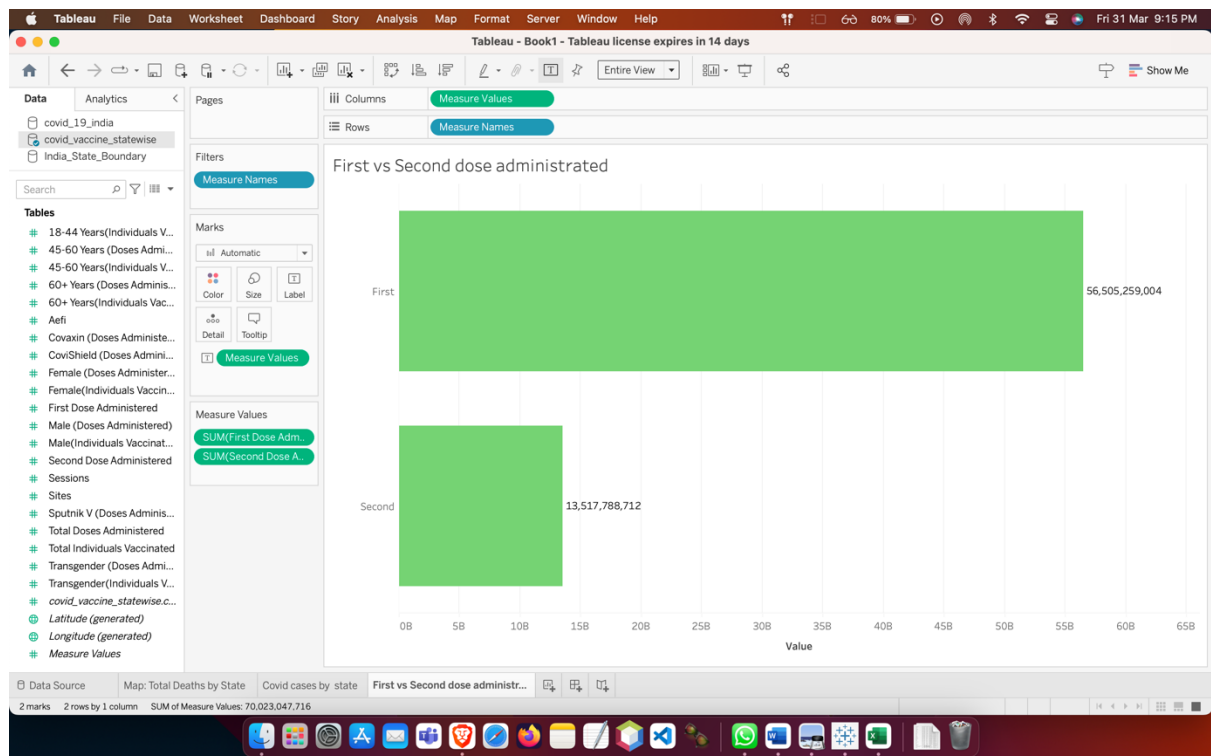
1.Total Deaths by State



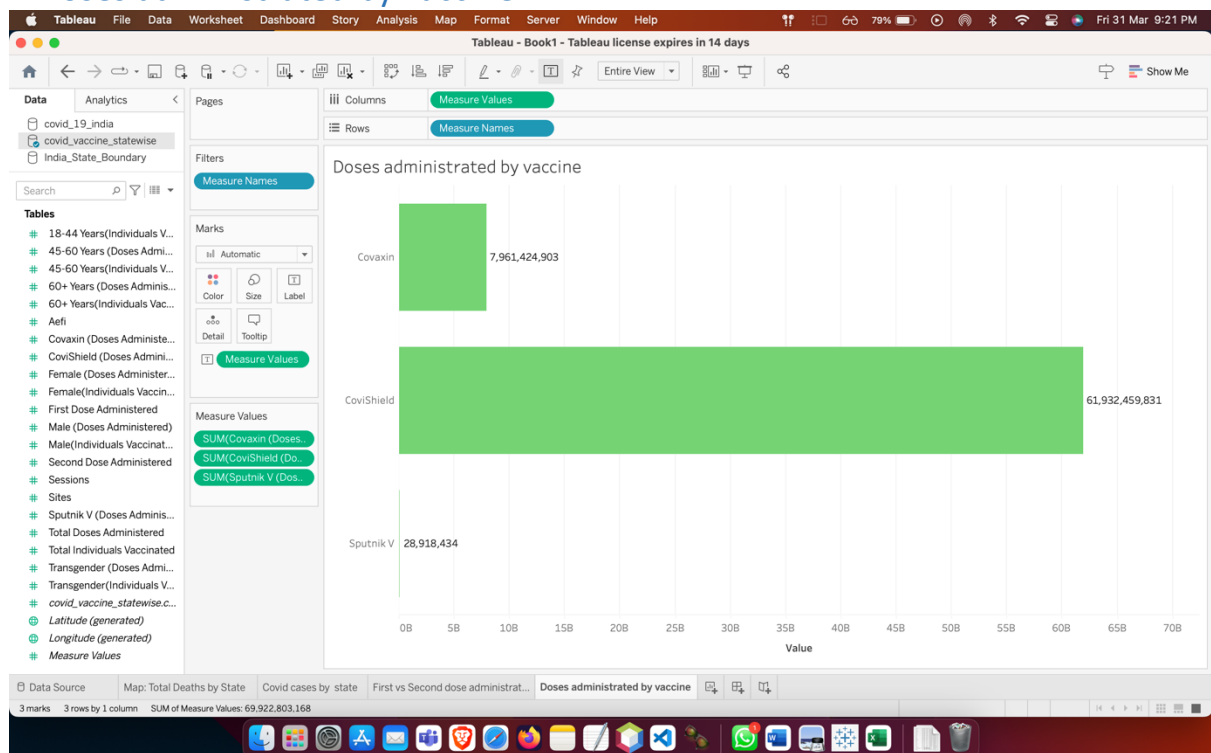
2.Covid cases by state



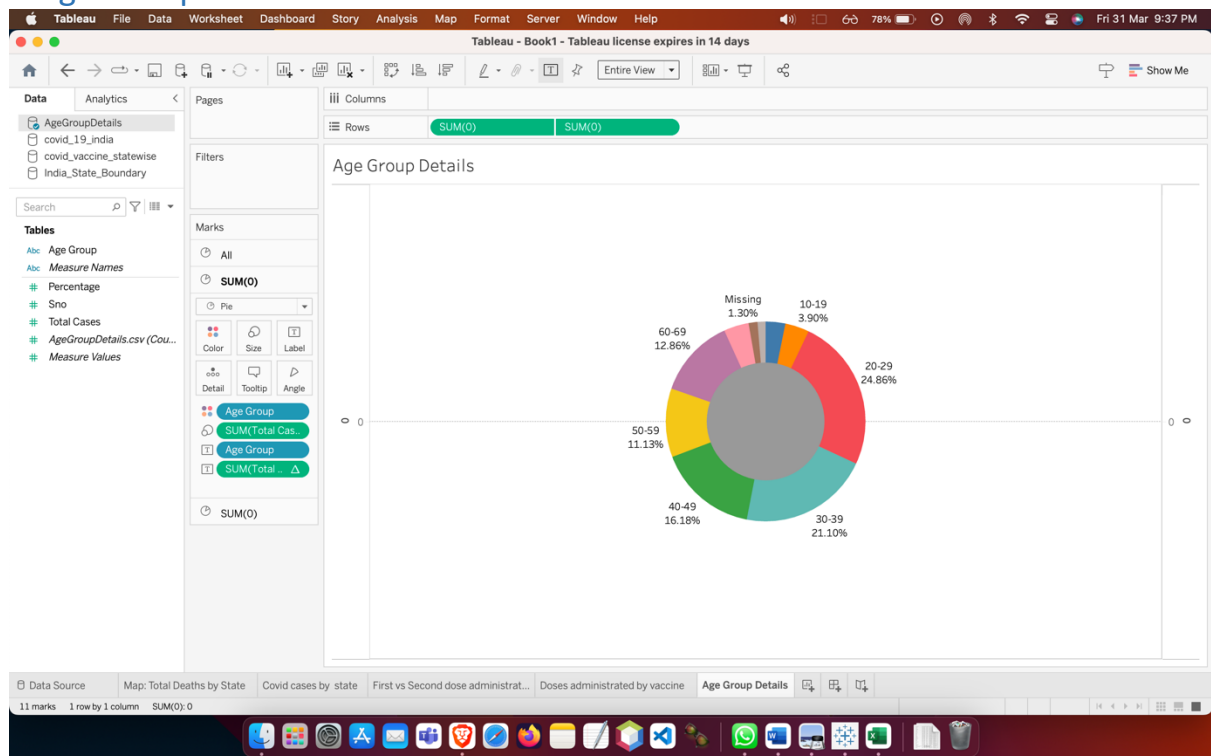
3. First vs Second dose administrated



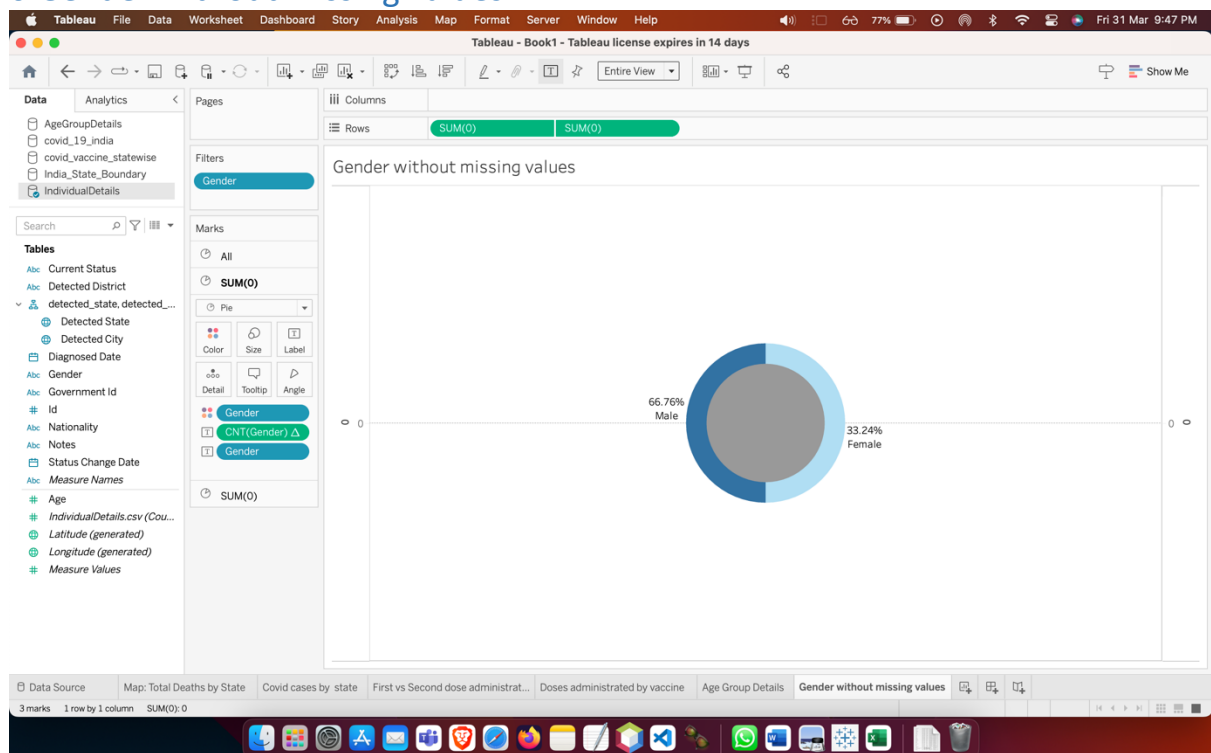
4. Doses administrated by vaccine



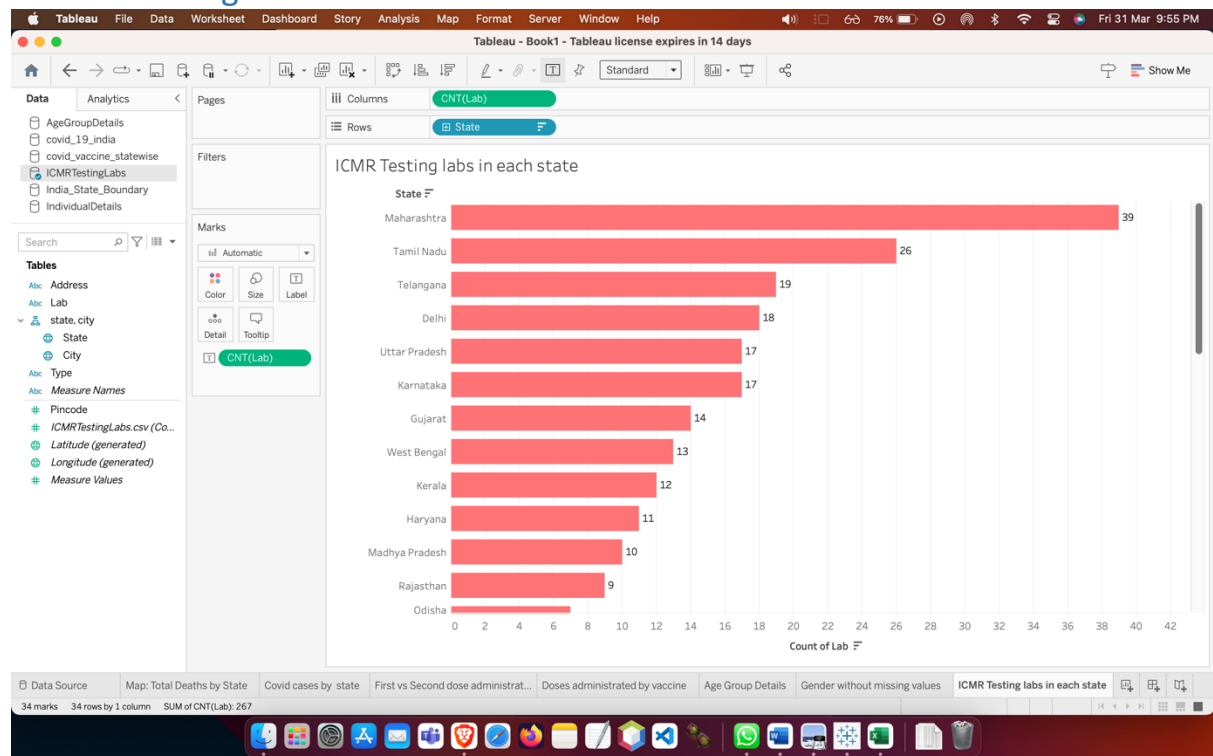
5.Age Group Details



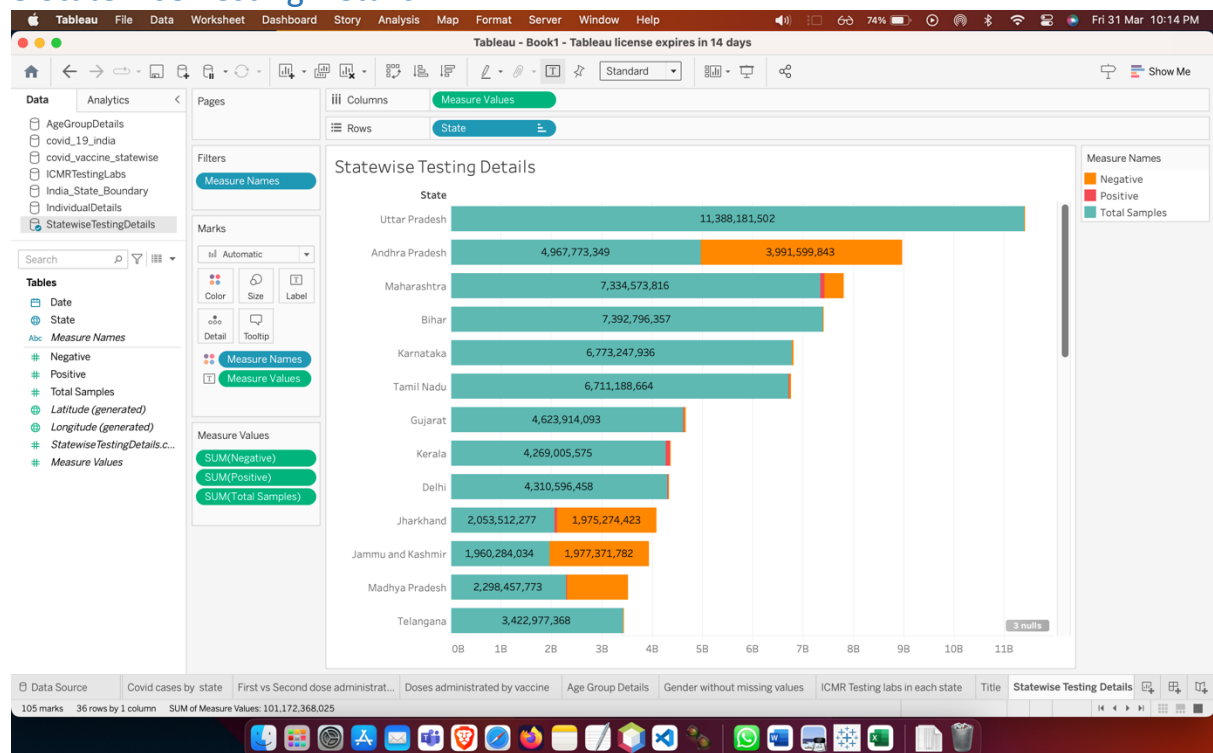
6.Gender without missing values



7. ICMR Testing labs in each state



8. Statewise Testing Details



DASHBOARD:

Covid-19 in India Dashboard Analysis

