ASSIGNMENT 06:

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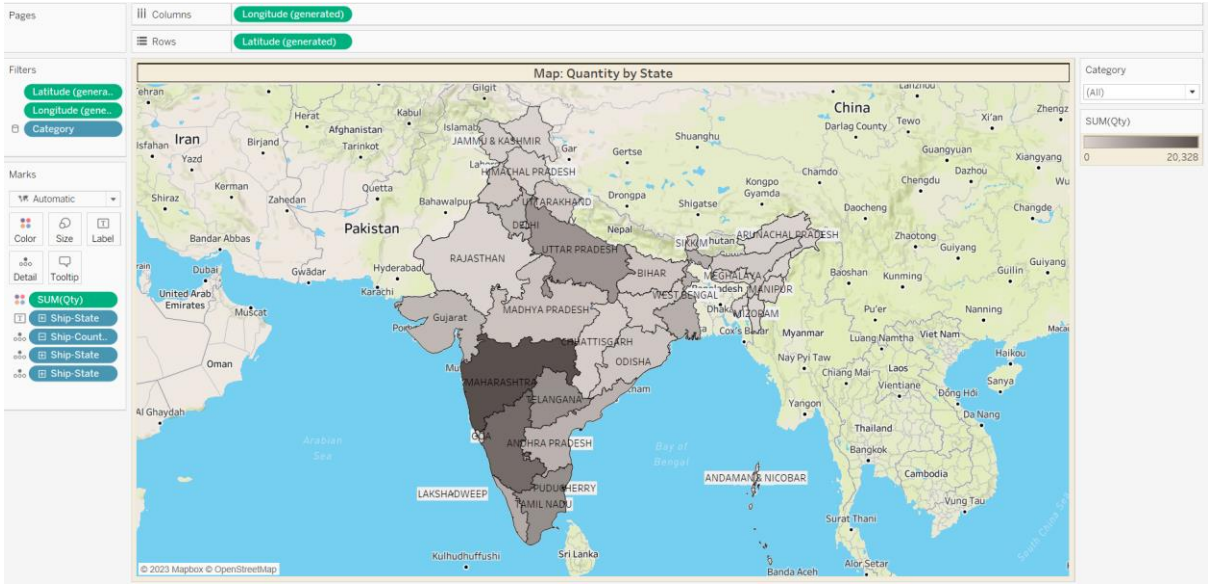
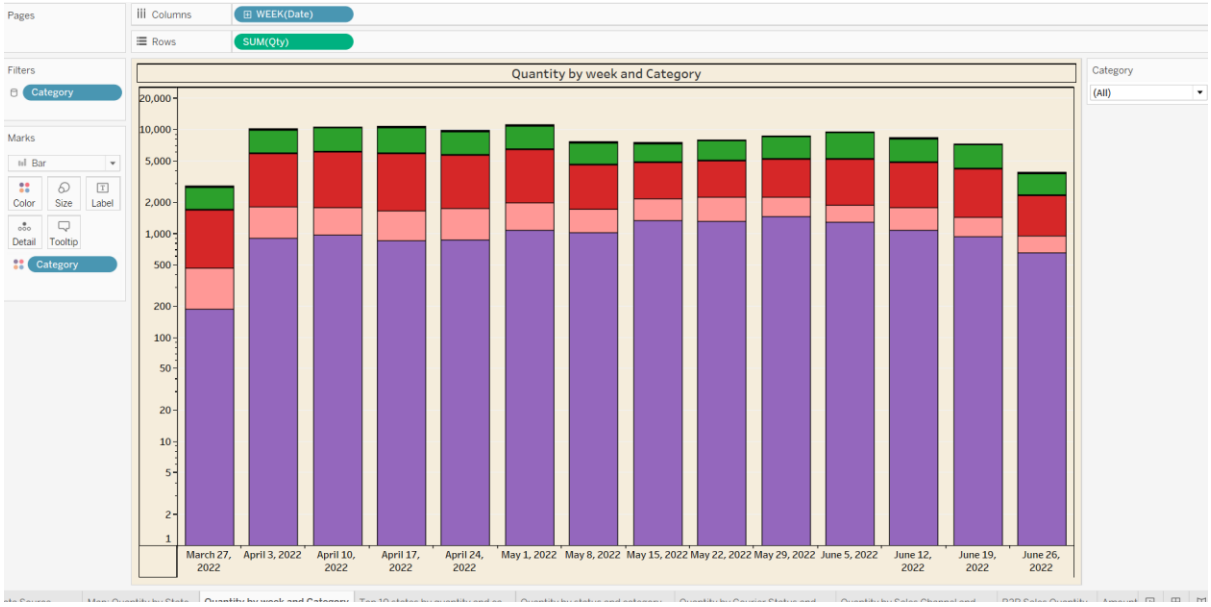
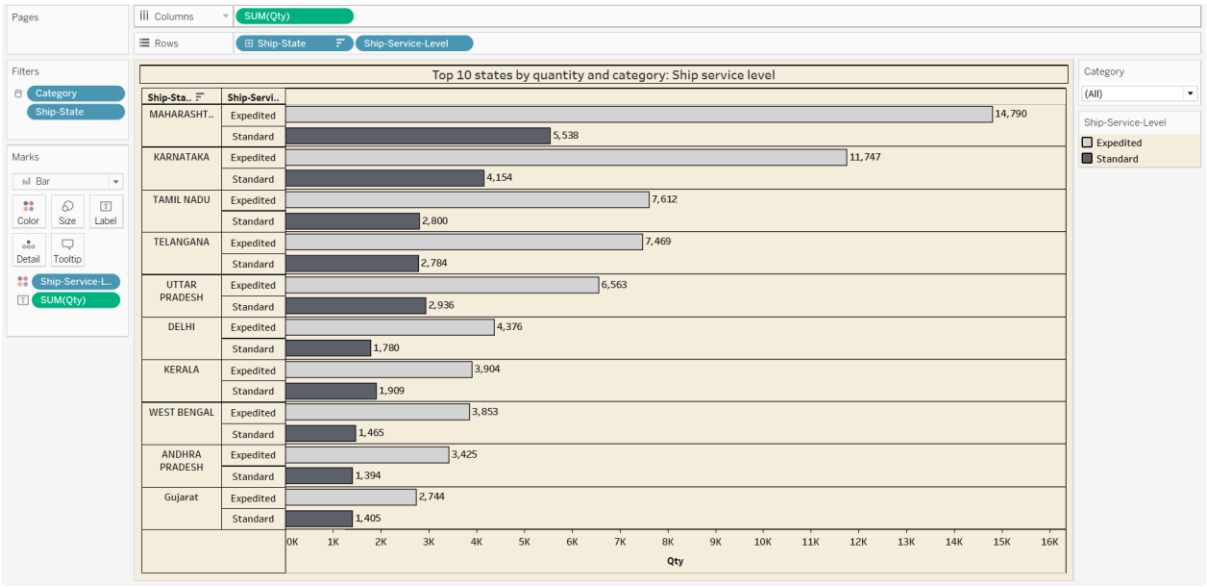
Link for workbook from the public gallery:

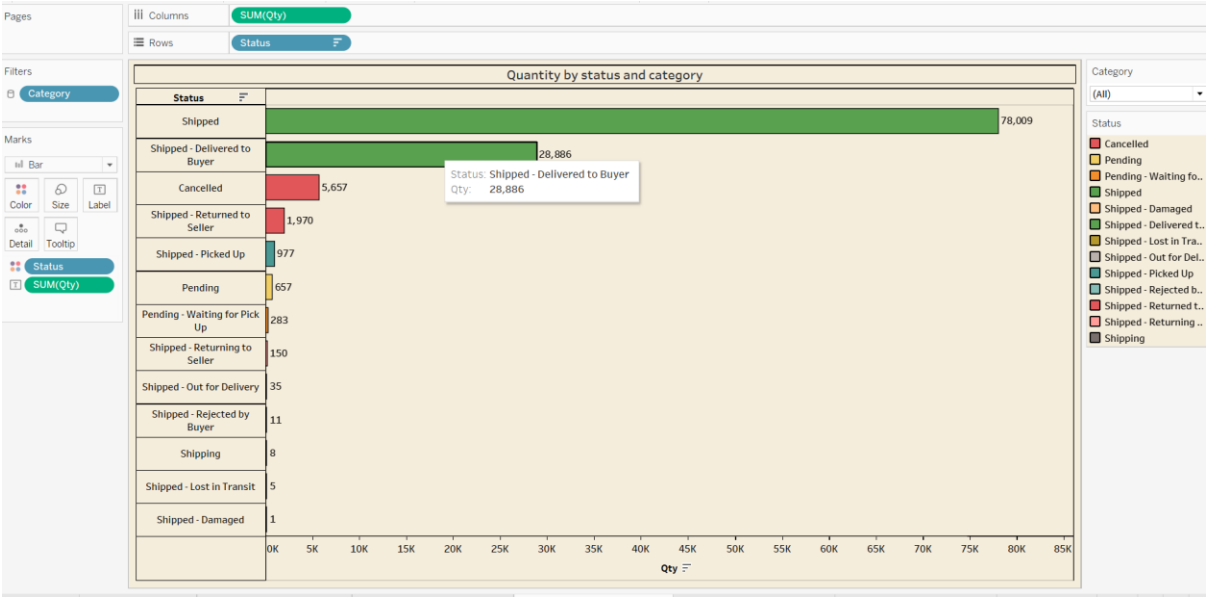
https://public.tableau.com/app/profile/datascience.roadmap/viz/AmazonSalesinIndia/Dashboard1

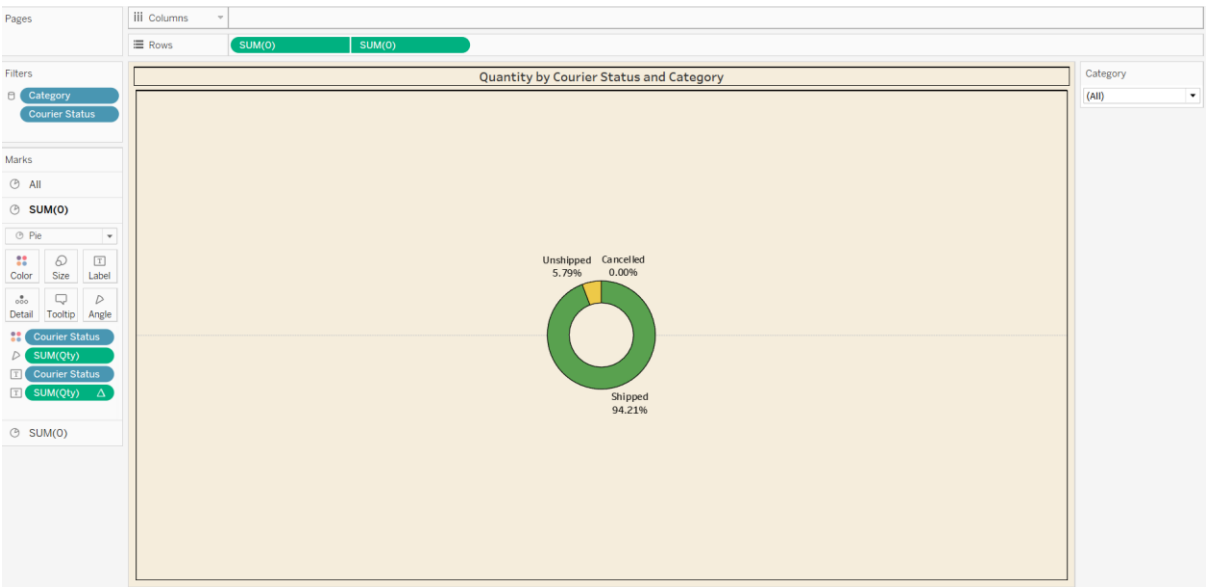
VISUALIZATIONS:

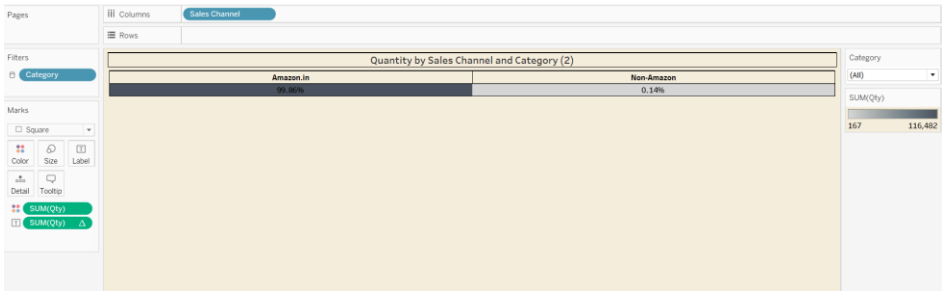


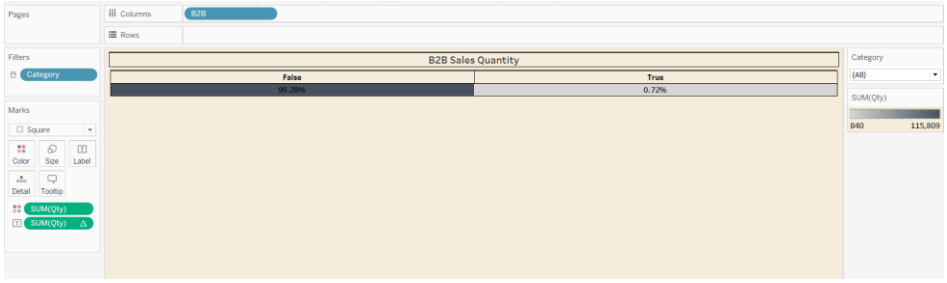


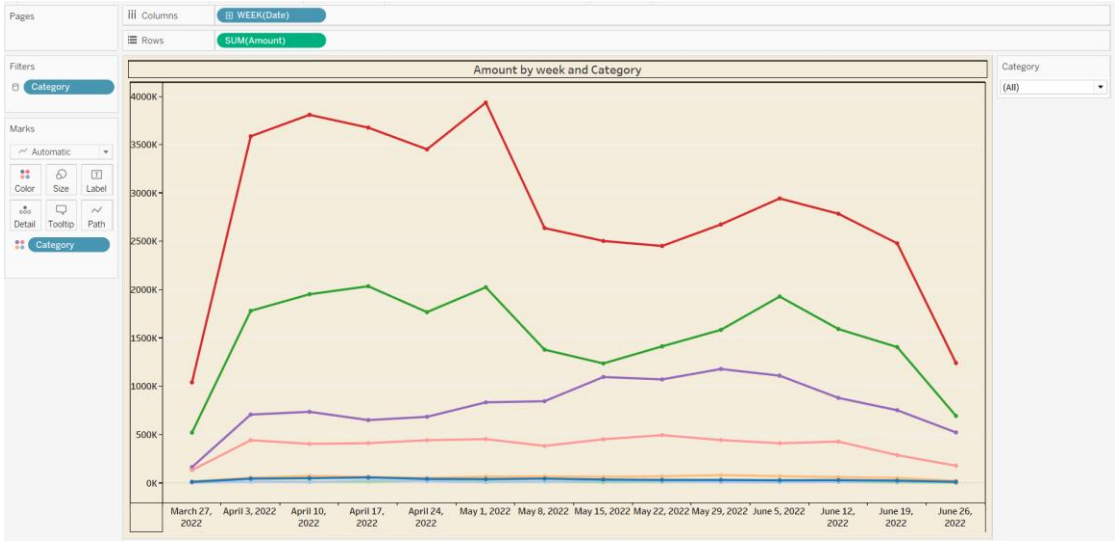

Pages
Columns
SUM(Qty)
Rows
Ship-State
Ship-Service-Level
Filters
Category
Ship-State
Marks
Bar
Color
Size
Label
Detail
Tooltip
Ship-Service-L..
SUM(Qty)
Top 10 states by quantity and category: Ship service level
Ship-Sta..
Ship-Servi..
MAHARASHT..
Expedited
14,790
Standard
5,538
KARNATAKA
Expedited
11,747
Standard
4,154
TAMIL NADU
Expedited
7,612
Standard
2,800
TELANGANA
Expedited
7,469
Standard
2,784
UTTAR PRADESH
Expedited
6,563
Standard
2,936
DELHI
Expedited
4,376
Standard
1,780
KERALA
Expedited
3,904
Standard
1,909
WEST BENGAL
Expedited
3,853
Standard
1,465
ANDHRA PRADESH
Expedited
3,425
Standard
1,394
Gujarat
Expedited
2,744
Standard
1,405
0K 1K 2K 3K 4K 5K 6K 7K 8K 9K 10K 11K 12K 13K 14K 15K 16K
Qty
Category
(All)
Ship-Service-Level
Expedited
Standard

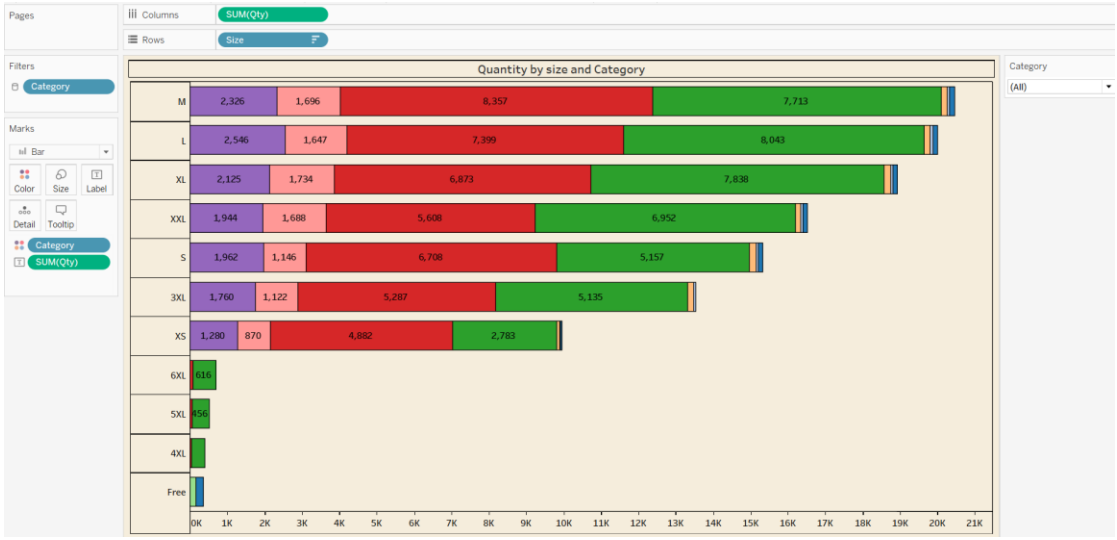

Pages
Columns
SUM(Qty)
Rows
Status
Filters
Category
Marks
Bar
Color
Size
Label
Detail
Tooltip
Status
SUM(Qty)
Quantity by status and category
Status
Shipped
78,009
Shipped - Delivered to Buyer
28,886
Cancelled
5,657
Shipped - Returned to Seller
1,970
Shipped - Picked Up
977
Pending
657
Pending - Waiting for Pick Up
283
Shipped - Returning to Seller
150
Shipped - Out for Delivery
35
Shipped - Rejected by Buyer
11
Shipping
8
Shipped - Lost in Transit
5
Shipped - Damaged
1
Status: Shipped - Delivered to Buyer
Qty: 28,886
0K 5K 10K 15K 20K 25K 30K 35K 40K 45K 50K 55K 60K 65K 70K 75K 80K 85K
Qty
Category
(All)
Status
Cancelled
Pending
Pending - Waiting fo..
Shipped
Shipped - Damaged
Shipped - Delivered t..
Shipped - Lost in Tra..
Shipped - Out for Del..
Shipped - Picked Up
Shipped - Rejected b..
Shipped - Returned t..
Shipped - Returning ..
Shipping


Pages
Columns
Rows
SUM(O)
SUM(O)
Filters
Category
Courier Status
Marks
All
SUM(O)
Pie
Color
Size
Label
Detail
Tooltip
Angle
Courier Status
SUM(Qty)
Courier Status
SUM(Qty)
SUM(O)
Quantity by Courier Status and Category
Unshipped
5.79%
Cancelled
0.00%
Shipped
94.21%
Category
(All)

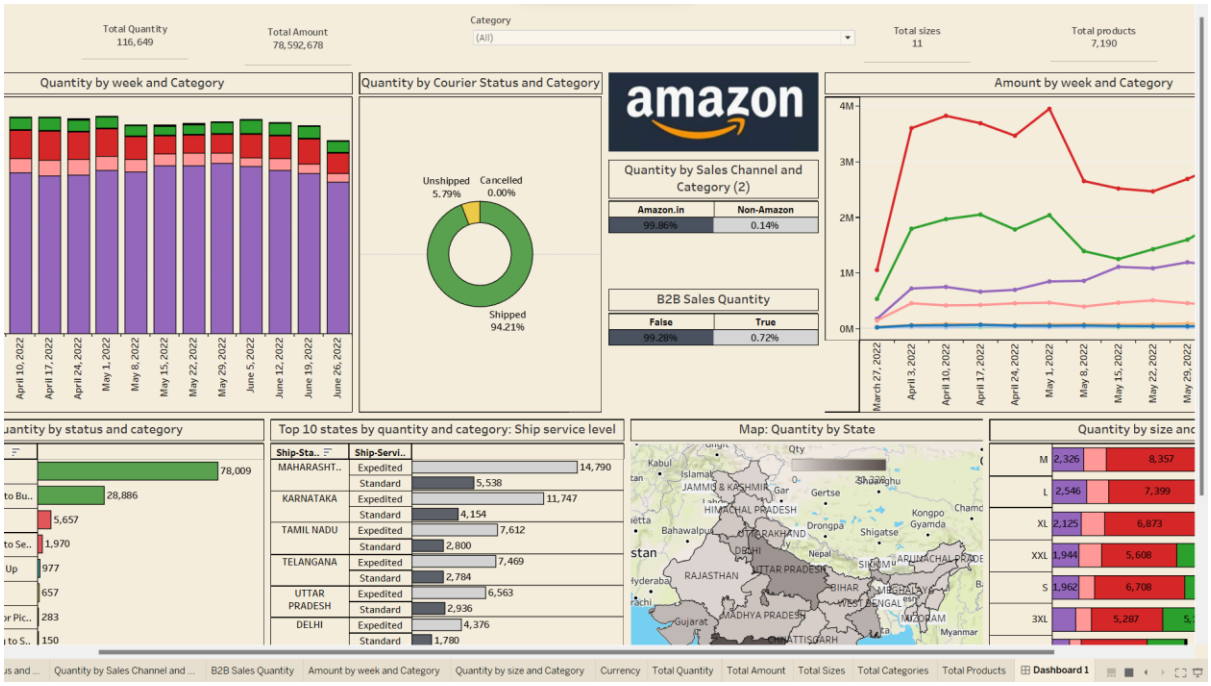

Pages
Columns
Sales Channel
Rows
Filters
Category
Marks
Square
Color
Size
Label
Detail
Tooltip
SUM(Qty)
Quantity by Sales Channel and Category (2)
Amazon.in
Non-Amazon
99.86%
0.14%
Category
(All)
SUM(Qty)
167
116,482


Pages
Columns
B2B
Rows
Filters
Category
Marks
Square
Color
Size
Label
Detail
Tooltip
SUM(Qty)
B2B Sales Quantity
False
True
99.28%
0.72%
Category
(All)
SUM(Qty)
840
115,809


Pages
Columns
WEEK(Date)
Rows
SUM(Amount)
Filters
Category
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Path
Category
Amount by week and Category
4000K
3500K
3000K
2500K
2000K
1500K
1000K
500K
0K
March 27, 2022
April 3, 2022
April 10, 2022
April 17, 2022
April 24, 2022
May 1, 2022
May 8, 2022
May 15, 2022
May 22, 2022
May 29, 2022
June 5, 2022
June 12, 2022
June 19, 2022
June 26, 2022
Category
(All)


Pages
Columns
SUM(Qty)
Rows
Size
Filters
Category
Marks
Bar
Color
Size
Label
Detail
Tooltip
Category
SUM(Qty)
Quantity by size and Category
M
2,326
1,696
8,357
7,713
L
2,546
1,647
7,399
8,043
XL
2,125
1,734
6,873
7,838
XXL
1,944
1,688
5,608
6,952
S
1,962
1,146
6,708
5,157
3XL
1,760
1,122
5,287
5,135
XS
1,280
870
4,882
2,783
6XL
616
5XL
456
4XL
Free
0K
1K
2K
3K
4K
5K
6K
7K
8K
9K
10K
11K
12K
13K
14K
15K
16K
17K
18K
19K
20K
21K
Category
(All)

DASHBOARD:



QUESTIONS:

1. **Can you provide more context or specify the type of Tableau workbook to be replicated, such as data visualization, dashboard, etc?**
   I have chosen to replicate a Tableau workbook that presents an Amazon sales report for India. The workbook includes bar charts, line charts, a pie chart, and a map visualization. It features multiple worksheets and an interactive dashboard that updates all visualizations based on the selected product category. This comprehensive workbook allows users to easily compare sales across product categories, analyze trends over time, explore regional sales patterns, and make informed decisions. Its interactive nature enhances data exploration and adds value to the analysis, making it a valuable tool for understanding Amazon's sales performance in India.

2. **What criteria should be considered when choosing a workbook from the Tableau Public Gallery?**
   There are several important factors to consider when choosing a worksheet from the Tableau Public Gallery. Prior to anything else, it's critical to assess the workbook's applicability to the requirements and goals. Examine whether the statistics, visuals, and insights relate to the issue or issue you are trying to solve. To make sure the information is appropriate for the project, search for workbooks that present comparable data sources or use case scenarios. Reviewing the workbook's popularity and user reviews within the Tableau Public community might also be helpful.
   Examine the usefulness and caliber of the workbook's graphics. Look for designs that successfully communicate information by being simple and intuitive. Verify that the visualizations make use of the proper chart kinds, color schemes, and labeling methods to

improve comprehension. Also take into account how interactive and user-friendly the workbook is. Filters, drill-down options, and linked visualizations are interactive features that can significantly improve the user experience and data exploration.

3. **What role does data source play in the replication process of a Tableau workbook?**
   The scope and depth of the replication are determined by the data source. It lists the dimensions, measurements, and attributes that are available for use in the construction of visualizations. One may determine the important fields and variables utilized in the original workbook by looking at the data source, and they can then be sure they are accurately reflected in the replicated version.
   The duplicated workbook's accuracy and integrity are influenced by the data source. The data must be trustworthy, current, and consistent with the original workbook in order to be used. The accuracy of the visualizations and the insights drawn from them may be affected by any conflicts or inconsistencies between the duplicated data and the original data.
   When using a specific data source, such as the Amazon sales report data, it is important to understand its structure and format. Familiarizing oneself with the organization of the data, including columns, rows, and any necessary joins or relationships, enables a successful replication process.

4. **What impact does the level of complexity of the original workbook have on the replication process?**
   The amount of time and effort needed to replicate a workbook might vary depending on its complexity. Data transformations, computations, and modifications that are complex are frequently used in visualizations. A better comprehension of Tableau's features and more sophisticated data processing and graphical design abilities could be needed to replicate these components. Complex computations may need to be recreated, sophisticated formatting methods may need to be used, or more data sources may need to be incorporated. Because of this, recreating a complicated workbook could take longer and need more labor.
   The fidelity of the replication may be impacted by the original workbook's intricacy. Precision setups and interdependencies across many components are frequently used in complex displays. It can be difficult to replicate these complex interactions, especially if the replication is carried out manually.

5. **What is the significance of documenting the replication process and what should be included in the documentation?**
   Documentation ensures repeatability and acts as a reference for future usage. One may simply repeat the replicated workbook in the future or make necessary changes by recording the replication process's processes, including data processing, graphical design, and any alterations done. This paper serves as a manual for preserving correctness and consistency throughout the replication process.
   Sharing information and encouraging cooperation are made possible by the replication process's documentation. It enables others, such coworkers or team members, to

comprehend and reproduce the same workbook on their own. Others can take advantage of the work done and improve upon it by offering clear instructions and descriptions of the actions needed.
The main components of the replication process must be included in the documentation when it comes to what should be there. This often contains specifics regarding the data source employed, any data transformations or manipulations carried out, the particular visualizations produced, and any customizations done to obtain the intended result.

6. **How will the new knowledge gained from replicating the Tableau workbook contribute to future data analysis and visualization projects?**

   The replication procedure sheds light on Tableau's data linkages, structures, and transformations. When combining several data sources or dealing with similar datasets, this knowledge is priceless. One may more quickly and effectively extract significant patterns and insights by becoming an expert in Tableau's data preparation and manipulation. People are also exposed to good design decisions via studying and imitating existing visualizations, including chart kinds, color schemes, labeling strategies, and layout considerations. By using this information in subsequent projects, it will be possible to create intuitive and aesthetically appealing visualizations that successfully convey the necessary message.

   Future projects involving data analysis and visualization will benefit considerably from the information learned through simulating a Tableau workbook. It offers practical expertise with various visualization methods and design ideas. This knowledge enables the development of aesthetically appealing and educational visualizations that successfully communicate ideas. One may develop complex visuals for future projects by using Tableau's capabilities, such as interactive filters and calculated fields, if they have a solid understanding of how to use them.

7. **What challenges might arise in the replication process and how can they be addressed?**
   Data source compatibility is a problem since it's possible that the original data source is inaccessible or incompatible. Alternative data sources can be investigated to get around this problem, but make sure they match the original data as nearly as feasible. Additionally, there may be issues with the original workbook's complicated computations or formulae. The calculations may be reliably replicated by breaking them down, using Tableau's calculation tools, and asking for advice from sources like the Tableau community.
   The replication of complex visualization modifications is another difficulty. Finding ways to reproduce the original workbook's formatting, experimenting with Tableau's formatting choices, and consulting the available resources might help. It might be difficult to complete data preparation and cleaning stages. Tableau's data manipulation features and a review of the data cleaning processes from the original worksheet can both aid in precisely recreating the necessary changes. Finally, overcoming resource restrictions by replication process optimization, such as streamlining the workbook or using performance-enhancing strategies, guarantees smoother replication even with resource limitations.