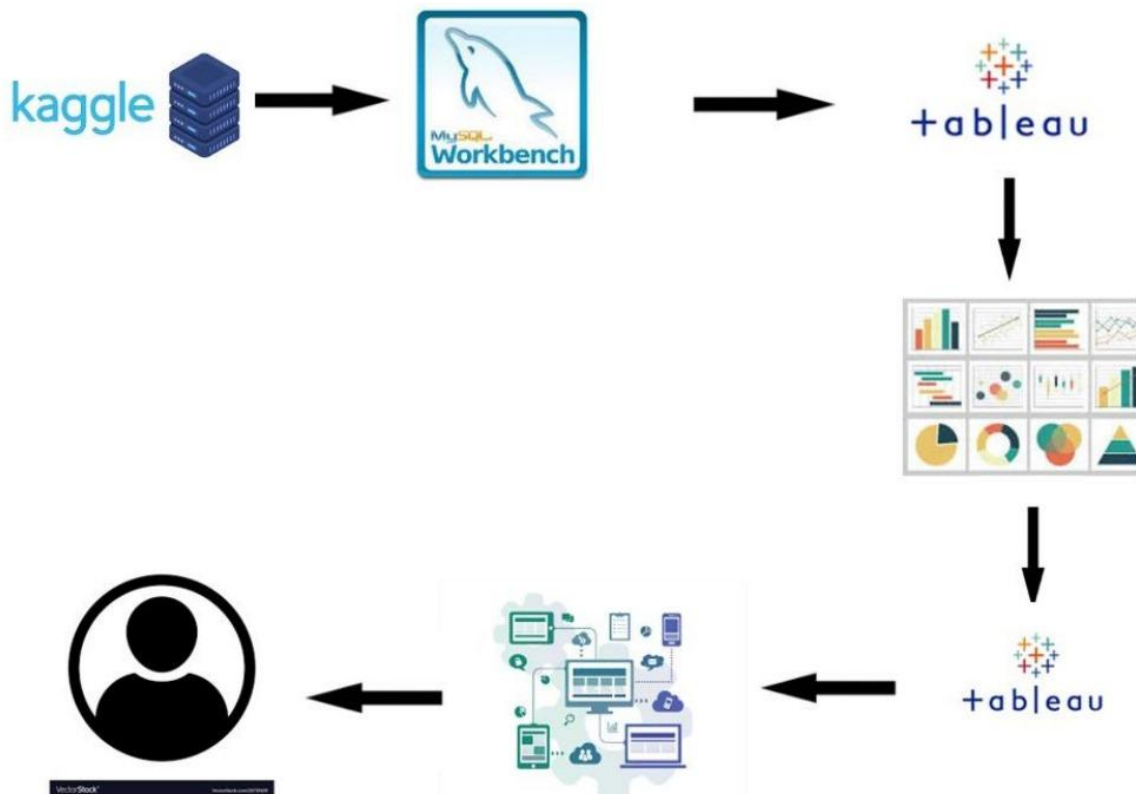


# Art of Centuries: Virat Kohli's 71 Masterstrokes

## Visualized with Tableau

Virat Kohli is an Indian cricketer widely regarded as one of the modern era's greatest batsmen. Born on November 5, 1988, in Delhi, India, Kohli has been a prominent figure in international cricket. He has represented the Indian national team as a prolific right-handed batsman and has achieved numerous records and accolades throughout his career. Kohli is known for his exceptional batting skills, remarkable consistency, and fierce competitiveness. He has been the captain of the Indian cricket team and has led the team to numerous victories. His aggressive style of play and dedication to fitness have made him a role model for aspiring cricketers around the world. Kohli's contributions to Indian cricket and his outstanding batting performances have earned him a special place in the sport's history.

### Technical Architecture:



## **Project Flow**

To accomplish this, we have to complete all the activities listed below,

- **Define Problem / Problem Understanding**
  - ✓ Specify the business problem
  - ✓ Business requirements
  - ✓ Literature Survey
  - ✓ Social or Business Impact.
- **Data Collection & Extraction from Database**
  - ✓ Collect the dataset,
  - ✓ Storing Data in DB
  - ✓ Perform SQL Operations
  - ✓ Connect DB with Tableau
- **Data Preparation**
  - ✓ Prepare the Data for Visualization
- **Data Visualizations**
  - ✓ No of Unique Visualizations
- **Dashboard**
  - ✓ Responsive and Design of Dashboard
- **Story**
  - ✓ No of Scenes of Story.
- **Performance Testing**
  - ✓ Amount of Data Rendered to DB.
- **Web Integration**
  - ✓ Dashboard and Story embed with Flask.
- **Project Demonstration & Documentation**
  - ✓ Record explanation Video for project end to end solution.
  - ✓ Project Documentation-Step by step project development procedure.

## **Milestone 1: Define Problem / Problem Understanding**

### **Activity 1: Specify the business problem**

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

### **Activity 2: Business requirements**

The project focuses on the remarkable career and achievements of the renowned Indian cricketer, Virat Kohli. Often hailed as one of the finest batsmen in the history of cricket, he represents the Royal Challengers Bangalore in the Indian Premier League (IPL) and plays for Delhi in domestic cricket. His extraordinary records and contributions to the sport make him a legendary figure in the world of cricket.

### **Activity 3: Literature Survey**

A literature survey is a method employed to investigate and analyze existing literature and studies pertaining to the assessment of Virat Kohli's performance. In the context of evaluating Virat Kohli's records, a literature survey would entail a comprehensive review of articles and publications specifically centered around Virat Kohli. This survey may encompass diverse sources, including reports from the Board of Control for Cricket in India (BCCI) and online articles. The primary objective of this literature survey is to pinpoint the key performance indicators (KPIs) and metrics that are commonly utilized to gauge Virat Kohli's cricketing achievements.

### **Activity 4: Social Impact**

**Social Impact:** Making Informative about Virat Kohil Career

## **Milestone 2: Data Collection & Extraction from Database**

Data collection and extraction from a database involve gathering specific data from a database, transforming it if necessary, and exporting it for analysis or other purposes. This process typically includes defining data requirements, accessing the database, querying, or extracting data, transforming the data, and exporting it in a suitable format. It's crucial for tasks like analysis, reporting, and decision-making.

### **Activity 1: Collect the dataset**

Please use the link to download the dataset

<https://www.kaggle.com/datasets/gauravtopre/virat-kohlis-71-centuries>

### **Activity 1.1: Understand the data**

Data contains all the meta information regarding the columns described in the CSV file. we have provided CSV file:

#### **Columns:**

Score  
Batting Order  
Strike Rate  
Venue  
Column1  
Result  
Format  
Man of the Match  
Captain  
Against  
Inn.  
H/A

### **Activity 2: Storing Data in DB & Perform SQL Operations**

<https://drive.google.com/file/d/1JwaCWE1aJ-421V1cfM4dlU-zZCot22xT/view?usp=sharing>

**Activity 3:** Importing Data from my SQL to Tableau.

[https://drive.google.com/file/d/1bk16j7kekTsyYv1pMINTIF\\_o\\_JrW-dF3/view?usp=sharing](https://drive.google.com/file/d/1bk16j7kekTsyYv1pMINTIF_o_JrW-dF3/view?usp=sharing)

## **Milestone 3: Data Preparation**

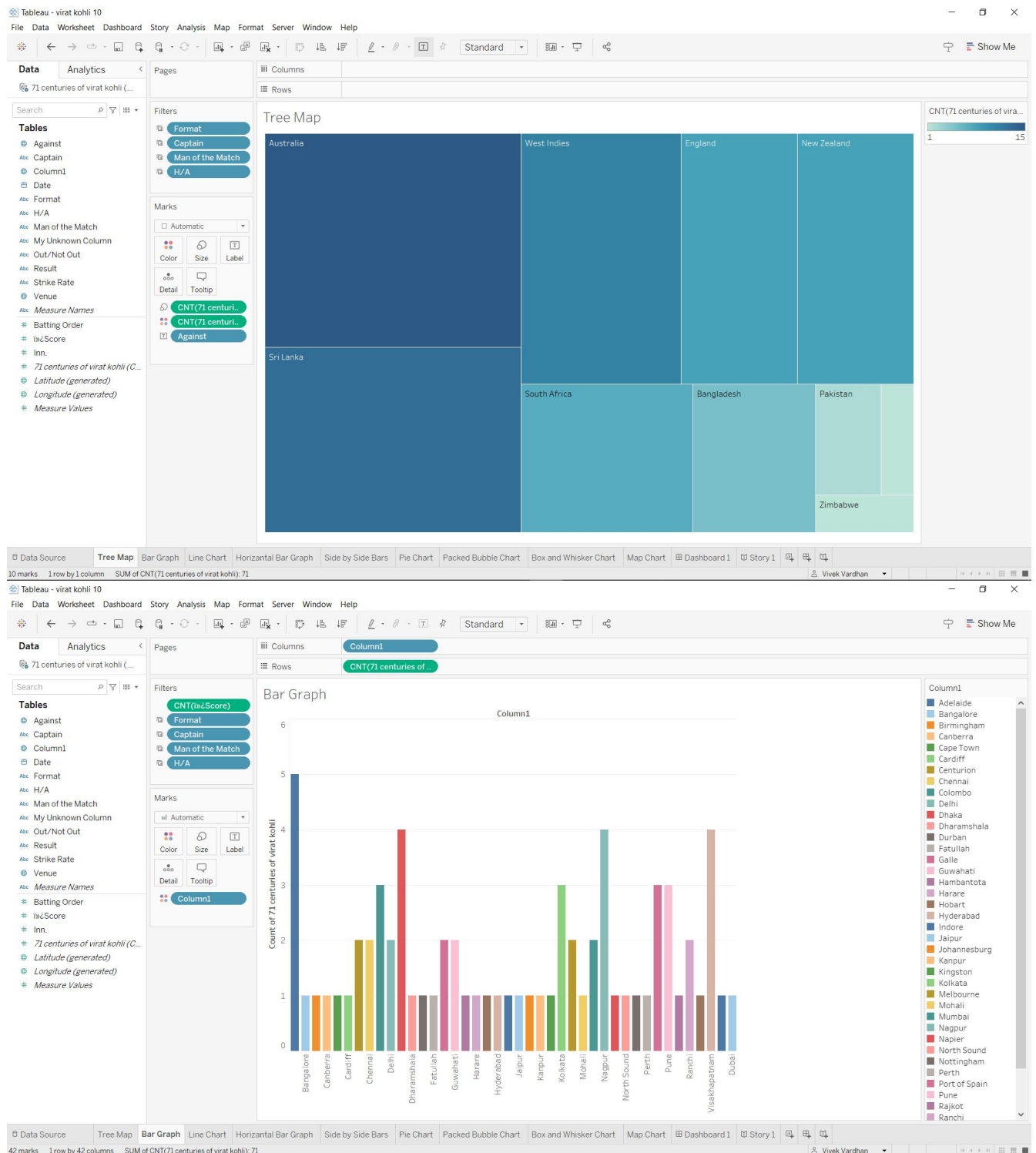
### **Activity 1: Prepare the Data for Visualization**

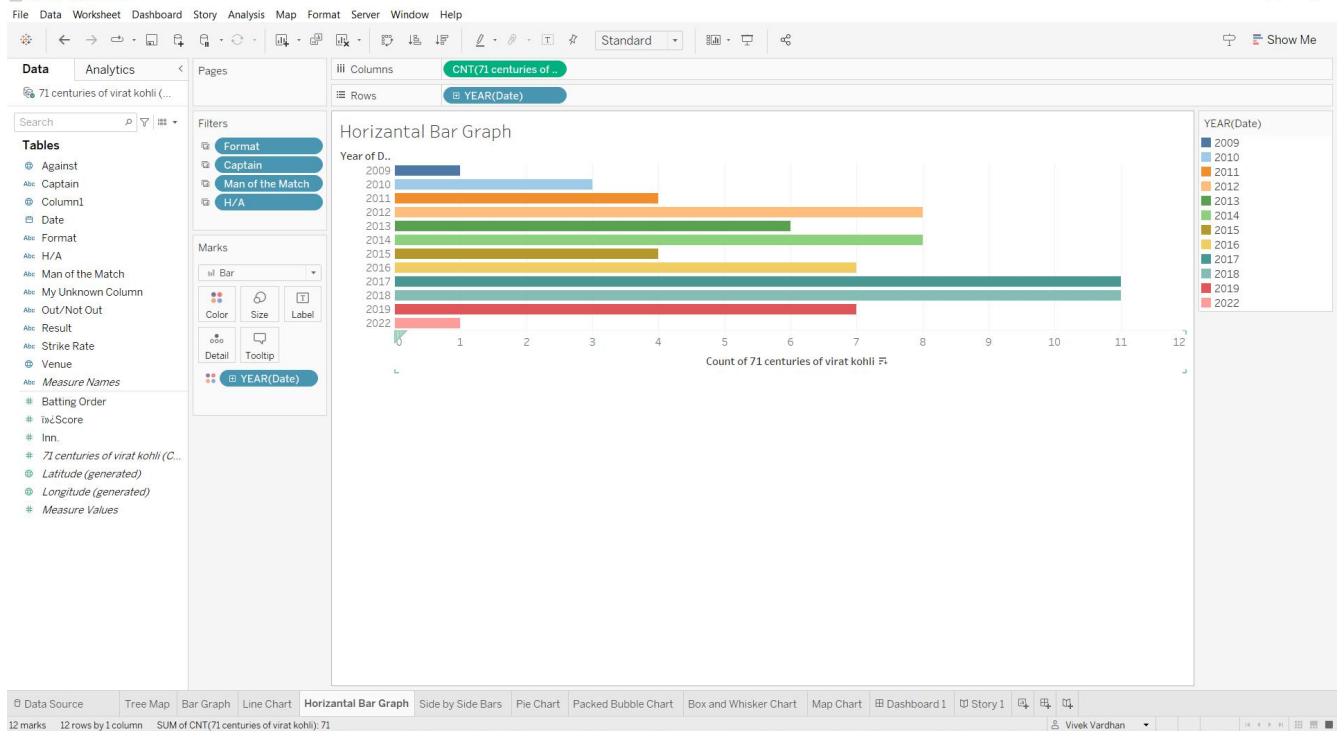
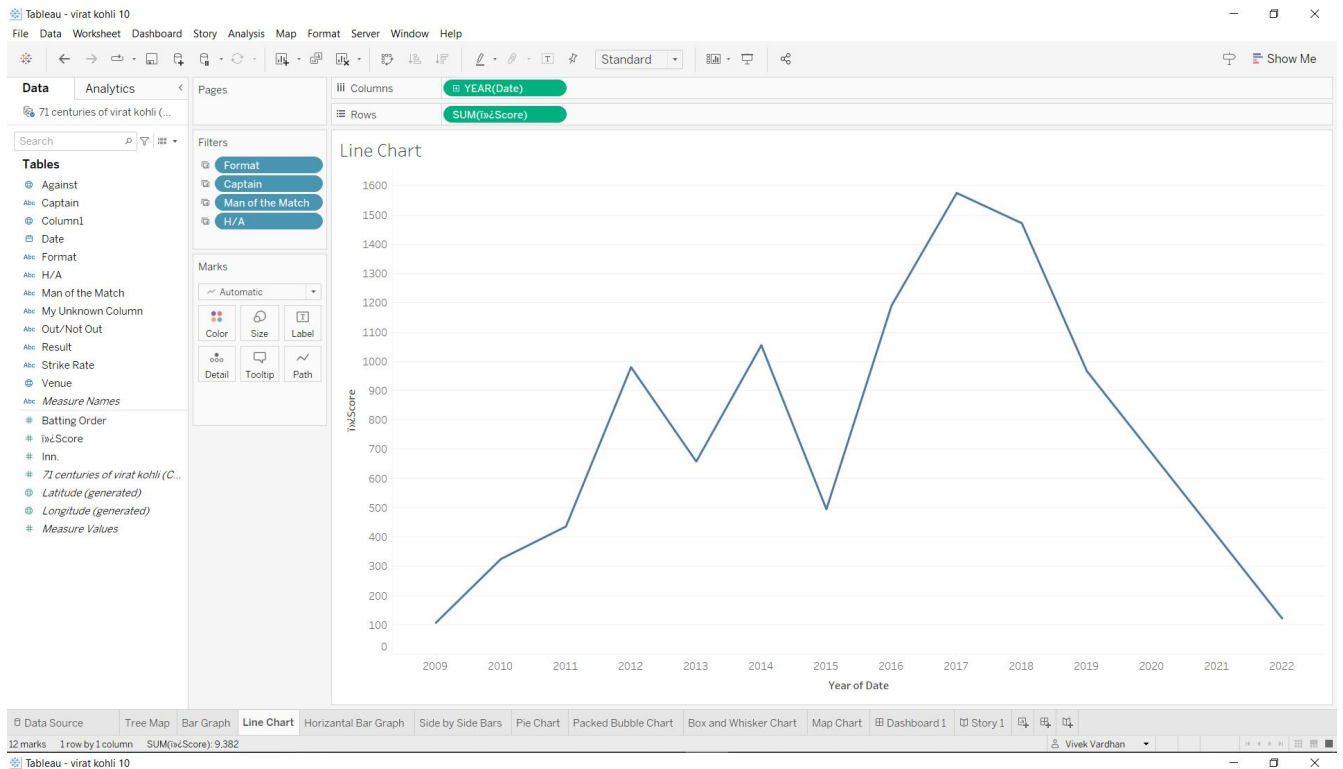
Data Preparation for Visualization: In some cases, data may not be in an ideal format for visualization, necessitating data transformation to ensure it's in a suitable format. Data preparation involves tasks such as data cleaning, handling null values, and addressing missing data. These processes enhance data clarity, making it more understandable and facilitating the creation of effective visualizations.

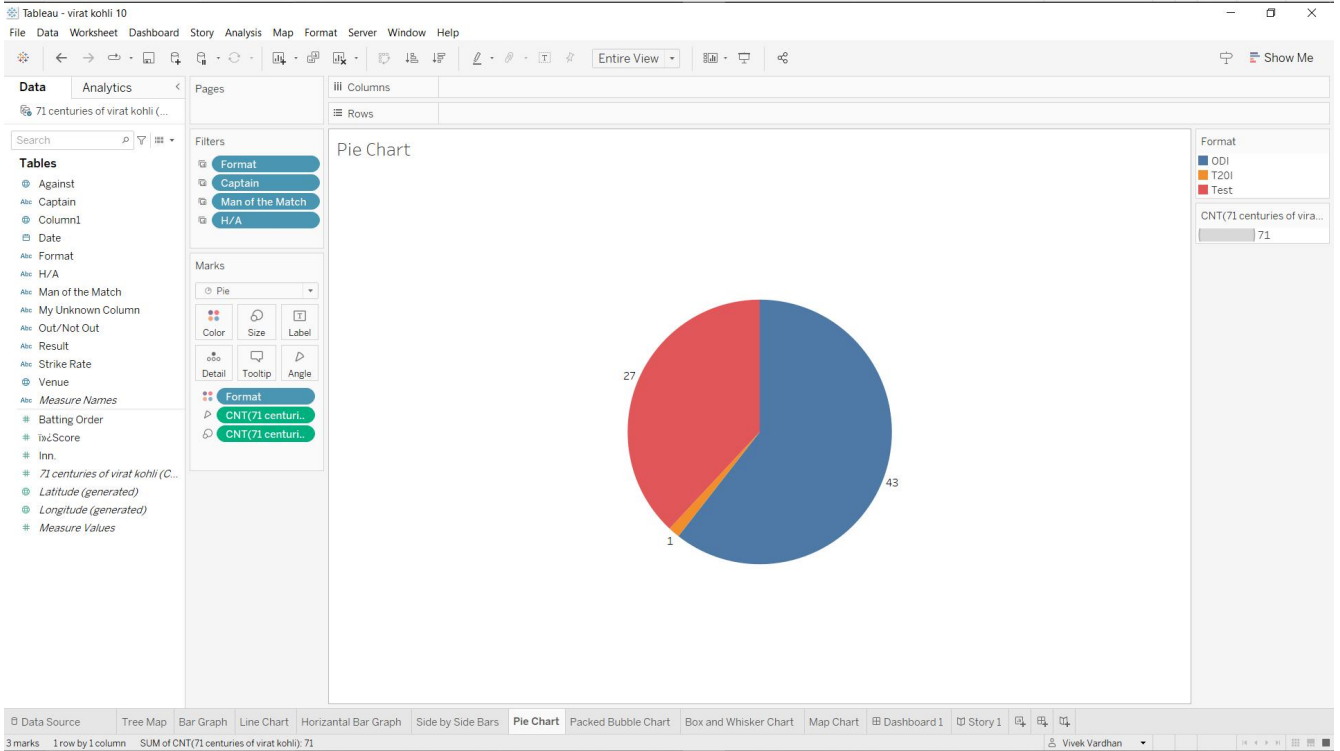
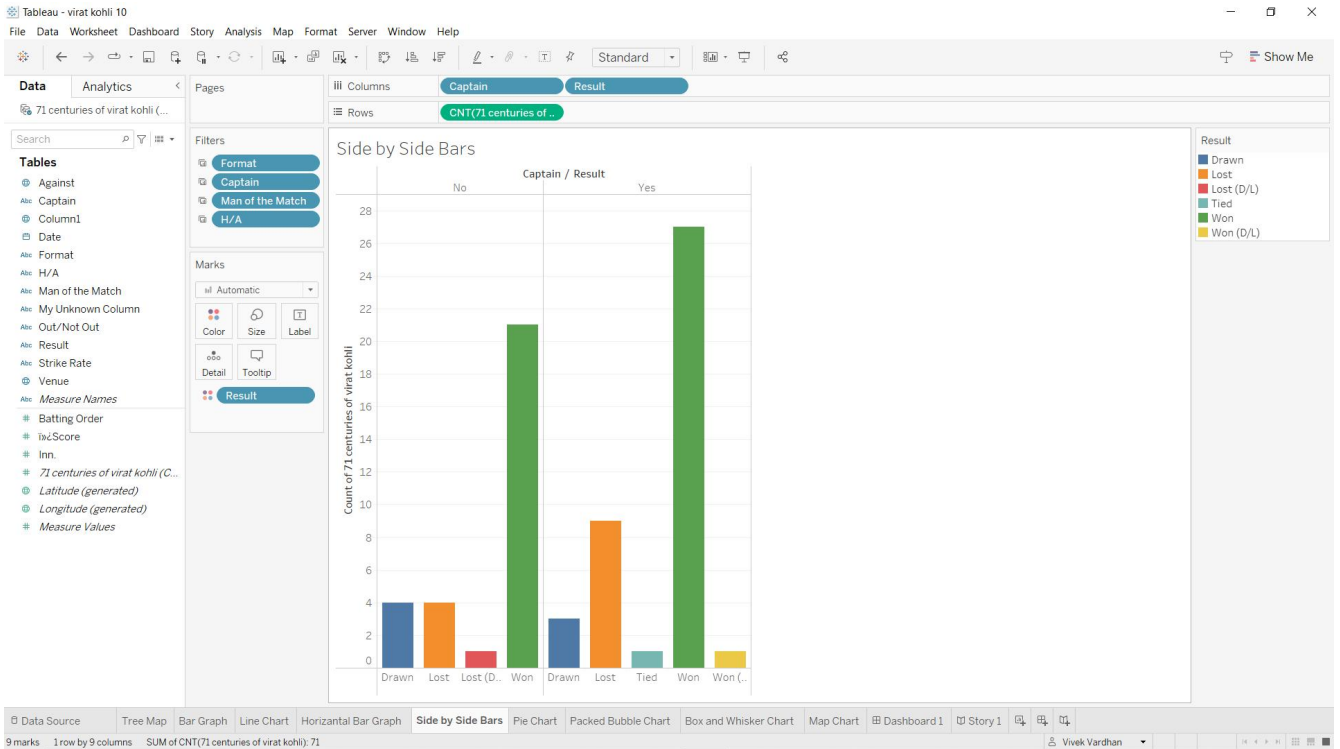
## Milestone 4: Data Visualization

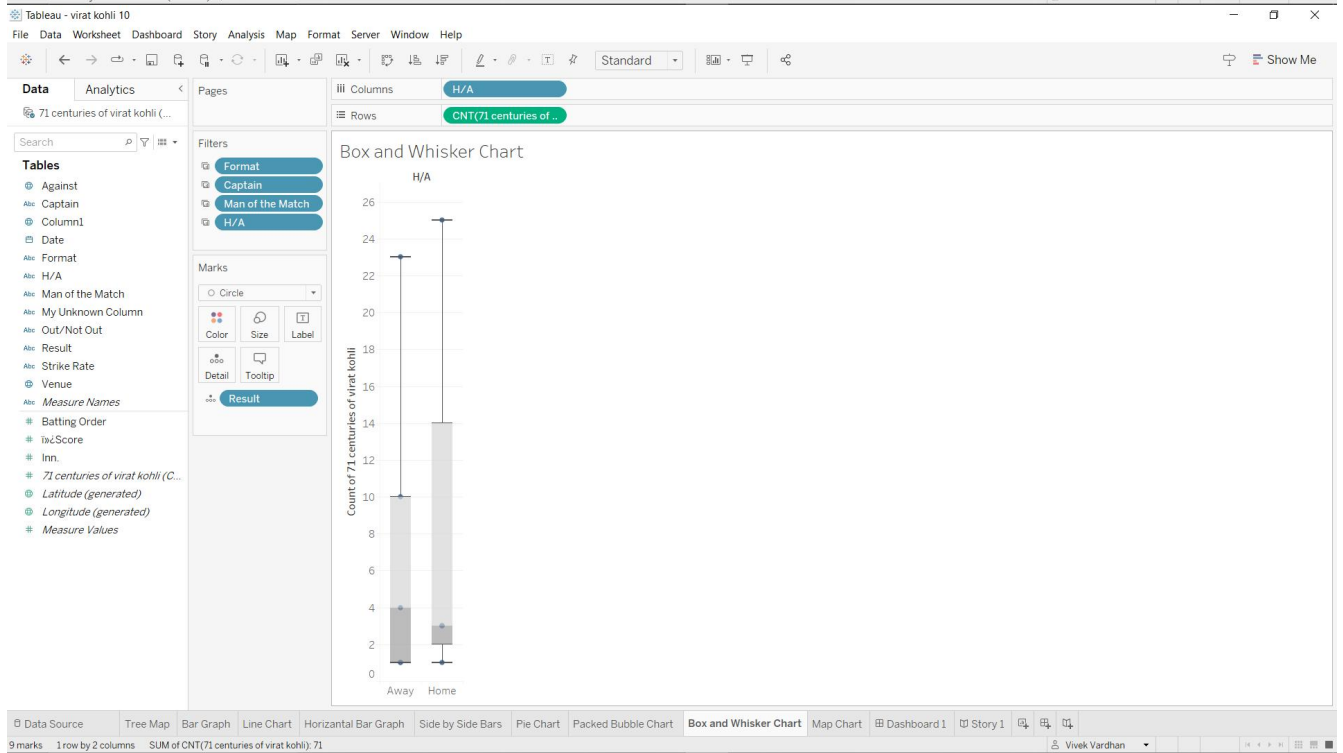
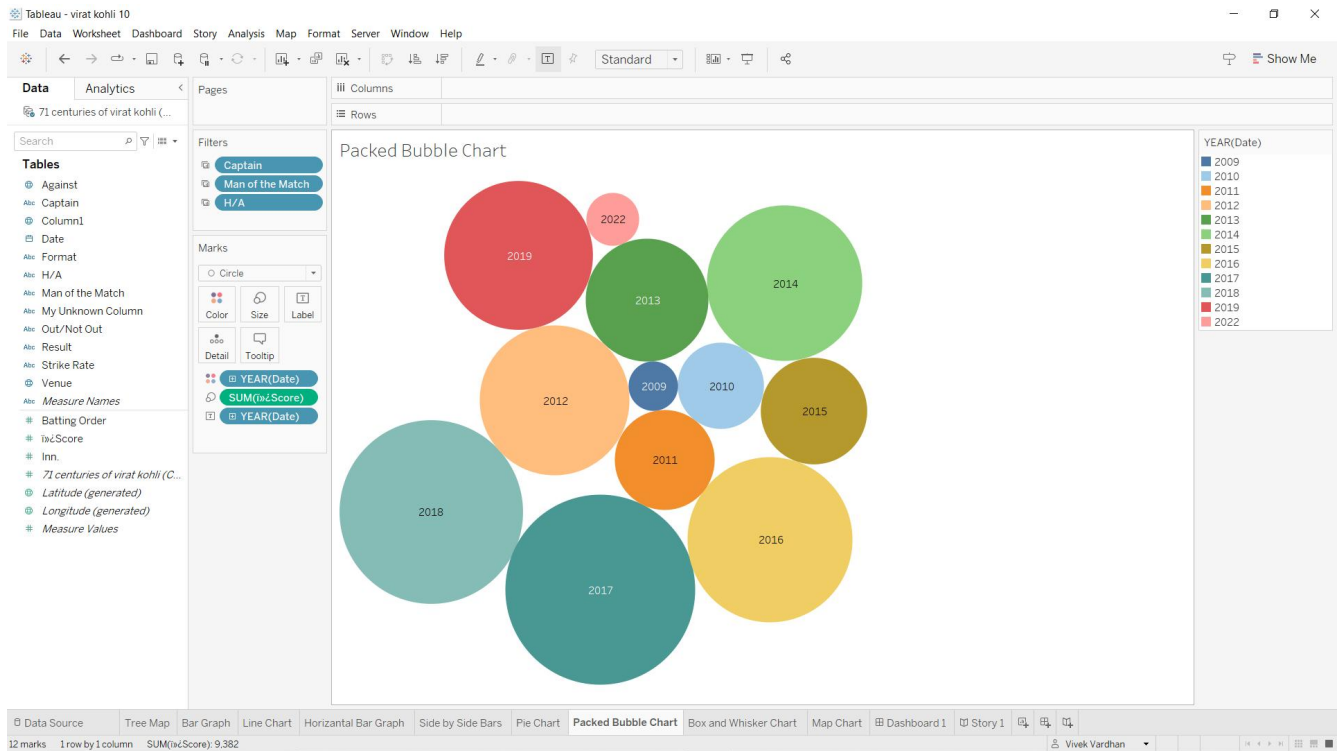
### Activity 1: Understanding Data Visualization

Data visualization is the process of transforming data into visual elements to facilitate comprehension and exploration. Its core aim is to simplify intricate data sets, rendering them more accessible, user-friendly, and interpretable. By employing graphical tools such as charts, graphs, and maps, data visualization enables individuals to swiftly discern patterns, trends, and exceptional data points, empowering them to make informed decisions and gain deeper insights from the data.













## **Milestone 6: Story**

A data story is a method of conveying data and analysis through a narrative structure, aimed at enhancing engagement and facilitating comprehension. Typically, a data story comprises a well-defined introduction to provide context and background for the data, a structured body that systematically presents the data and analysis, and a concluding section that encapsulates key insights and their significance. Data stories can take various forms, including reports, presentations, interactive visualizations, and videos, making data communication more versatile and effective."Activity:1- No of Scenes of Story

<https://drive.google.com/file/d/1xUCV1GkLxODdi6lo1YEF-UoJEHwdc313/view?usp=sharing>

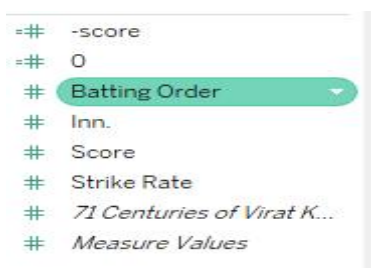
## **Milestone 7: Performance Testing**

Performance testing for Tableau entails the evaluation of the software's responsiveness and scalability, including its underlying infrastructure. This evaluation is centered around assessing how Tableau functions in various scenarios, including its capabilities with large datasets, intricate visualizations, simultaneous user access, and resource-intensive data queries. Through performance testing, organizations can verify that Tableau consistently provides top-tier performance, responsiveness, and reliability. This, in turn, empowers users to analyze and visualize data efficiently and effectively.

### **Activity 1: Amount of Data Rendered to DB**

- The amount of data that is rendered to a database depends on the size of the dataset and the capacity of the database to store and retrieve data.
- Open the MySQL Workbench, go to the database then click to expand the tables, select the table and click on (i) button to get the information related to table such as column count, table rows etc.

### **No of Calculated Fields:**

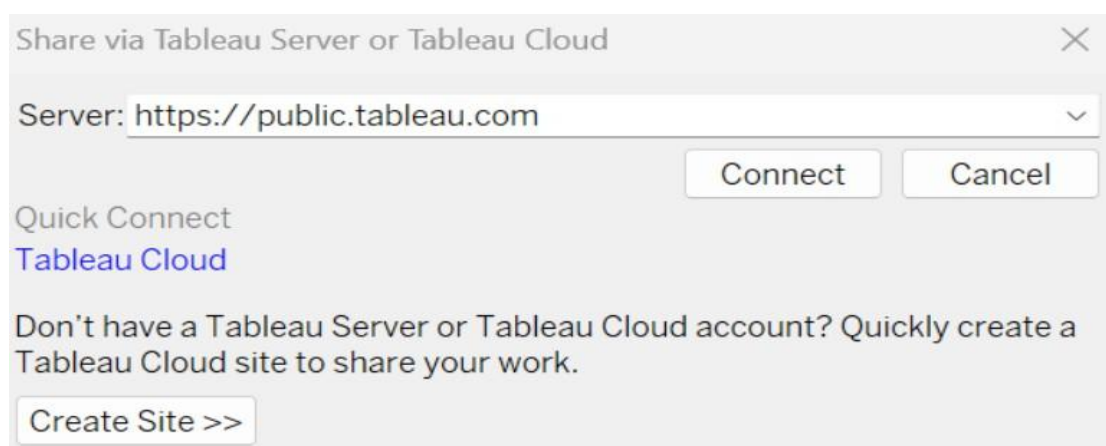


### **Milestone 8: Web integration**

Publishing helps us to track and monitor key performance metrics, to communicate results and progress. help a publisher stay informed, make better decisions, and communicate their performance to others.

#### **Publishing dashboard and reports to tableau public**

Step 1: Go to Dashboard/story, click on share button on the top ribbon



Give the server address of your tableau public account and click on connect.

**Step 2:** Once you click on connect it will ask you for tableau public user name and password

## Sign In

Email

Password

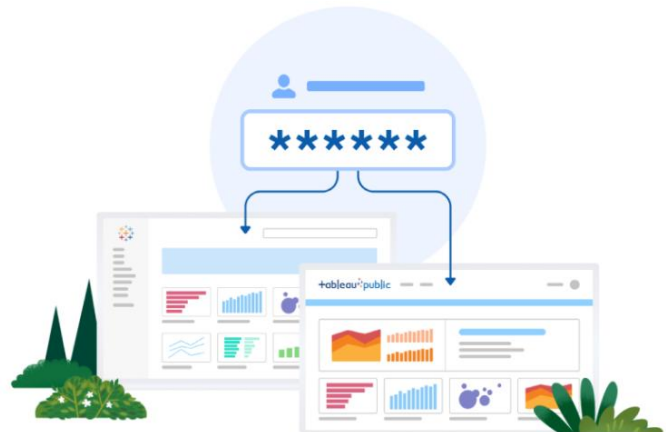
☐ Remember me

SIGN IN

[FORGOT PASSWORD](#) | [CREATE AN ACCOUNT](#)

[SIGN IN WITH SALESFORCE](#)

You can now **access all of Tableau** and **Tableau Public** with a **single user account**.



Once you login into your tableau public using the credentials, the particular visualization will be published into tableau public

**Note:** While publishing the visualization to the public, the respective sheet will get published when you click on share option.


### Home page:-



## About page:

Virat Kohli

HomeAboutVisualizationsDashboard



Virat Kohli is a renowned Indian cricketer who is widely regarded as one of the greatest batsmen in the history of the sport. Born on November 5, 1988, in Delhi, India, Kohli has achieved numerous records and accolades throughout his career. He is known for his aggressive and consistent batting style, remarkable fitness, and passionate leadership. Kohli made his debut for the Indian national cricket team in 2008 and has since become one of its most iconic figures. He has consistently been among the top run-scorers in international cricket and has achieved numerous centuries in both Test and One Day International (ODI) formats. In addition to his individual achievements, Kohli has led the Indian cricket team as captain in all three formats, contributing to several memorable victories. His aggressive and no-nonsense approach has endeared him to cricket fans around the world. Off the field, Kohli is also known for his philanthropic endeavors, fashion sense, and charismatic personality. As of my last knowledge update in January 2022, he was a prominent figure in Indian and international cricket, but please note that his career and achievements may have evolved since then.

## Visualization page:-

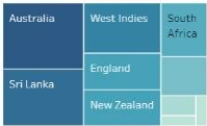
Virat Kohli

HomeAboutVisualizationsDashboard

Visualizations

Tree Map

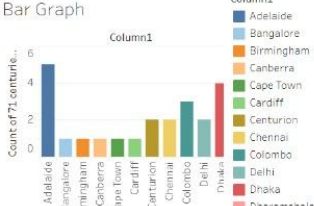
Count of 71 centuries of v...



Bar Graph

Count of 71 centuries of v...

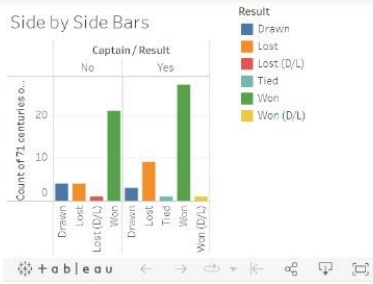
Column1



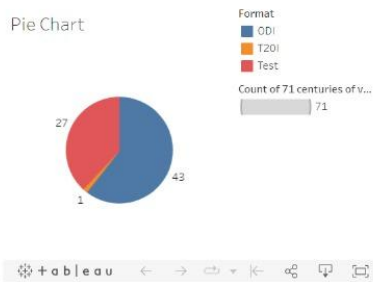
## Virat Kohli

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Side by Side Bars



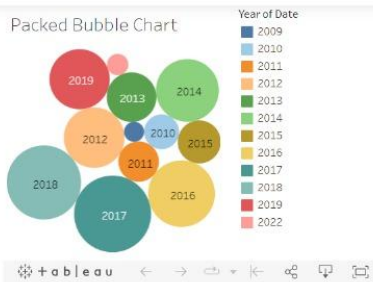
Pie Chart



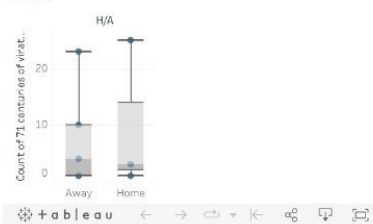
## Virat Kohli

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Packed Bubble Chart



Box and Whisker Chart



## Dashboard page:



## Milestone 9: Project Demonstration & Documentation

[https://drive.google.com/file/d/1IAdRqMtNjfQxSPYGhA\\_94SAI1c3jmQOI/view?usp=sharing](https://drive.google.com/file/d/1IAdRqMtNjfQxSPYGhA_94SAI1c3jmQOI/view?usp=sharing)