

# Tableau Assignment- 1

## Food List Data Analysis in Tableau

### Problem Statement:

You have been provided with a Food List file that contains two sheets: "Food Time" and "Category". Your task is to load this file into Tableau and perform the following tasks:

**Food List file Data URL:** <https://github.com/Learn-With-Karthik/NCPL-DataAnalytics/blob/main/Tableau%20-%20Data%20Analytics%20and%20Visualization/Food%20List.xlsx>

1.Create a new calculated field in the "Food Time" table:

- Open Tableau and connect to the Food List file.
- Select the "Food Time" sheet and navigate to the Data Source tab.
- Create a new calculated field called "Total\_time" using the formula:  $\text{Total\_time} = \text{PrepTime} + \text{CookTime}$ .
- Ensure that the data types of PrepTime, CookTime, and Total\_time are appropriate.

2.Establish a data relationship between the two sheets:

- Drag the Food ID field from both the "Food Time" and "Category" sheets onto the canvas to establish a data relationship based on Food ID.
- Verify that the relationship is correct by checking the data blending options and the resulting data structure.

3.Create View 1: Food Time Analysis:

- Click on the "Sheet 1" tab in Tableau to create a new worksheet.
- Drag the desired fields from the "Food Time" sheet to the Rows and Columns shelves to analyze the food time data.
- Use the "Show Me" feature to choose an appropriate visualization type for the analysis.

4.Create View 2: Category Analysis:

- Click on the "Sheet 2" tab in Tableau to create another worksheet.
- Drag the relevant fields from the "Category" sheet to the Rows and Columns shelves to analyze the food category data.
- Utilize the "Show Me" feature to select an appropriate visualization type for the analysis.

5.Customize and Format the Views:

- Format the visualizations by adjusting labels, colors, axes, and other properties as required.
- Apply appropriate titles, legends, and tooltips to enhance the clarity of the views.
- Add filters or highlight actions if necessary to further explore the data.

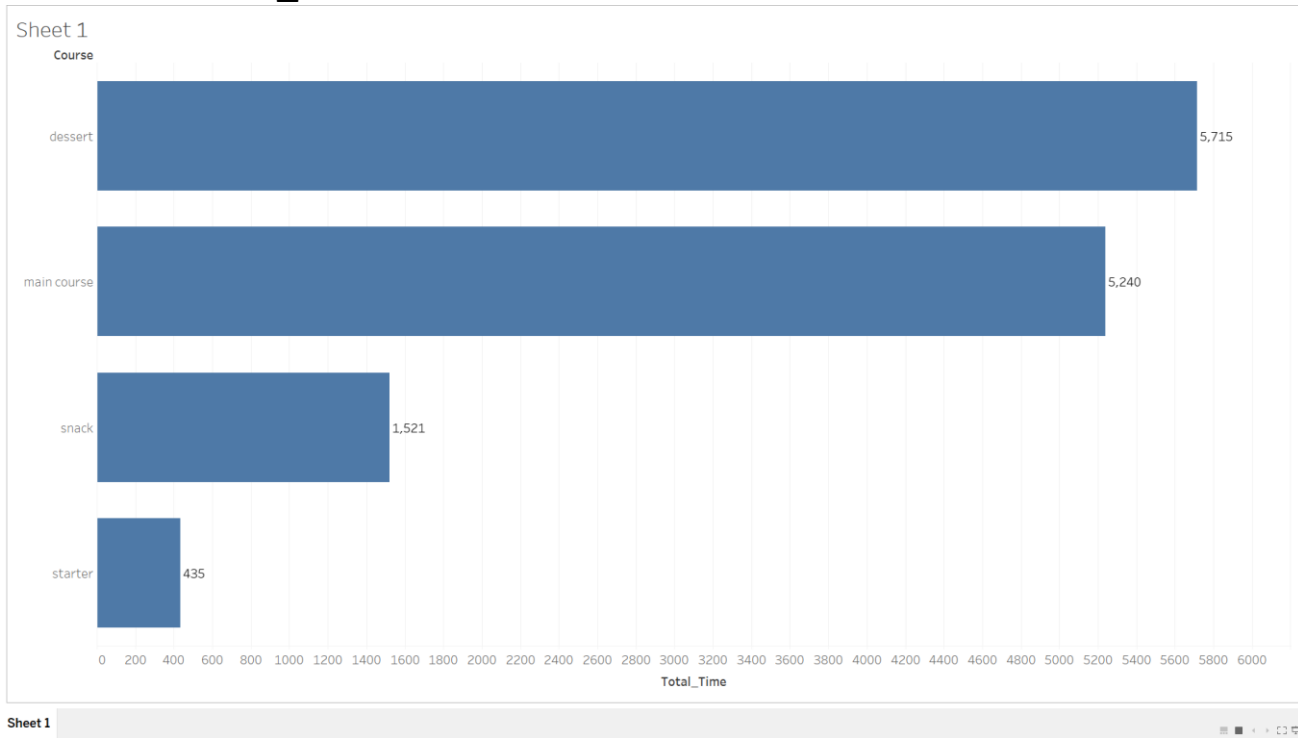
6.Save and Submit:

- Save the Tableau workbook containing the two views.
- Export the workbook to Tableau public account and share the URL or take screenshots of the views and submit them as part of your assignment.

Sample Output:

Sheet1 Fields:

- Course
- Total\_Time



Sheet2Fields:

- Region
- Total\_Time

