# ESSENTIALS OF DATA WAREHOUSING AND DATA MINING

## LAB ASSIGNMENT - 2

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**Questions -**

1. **Explain in the detail about 'Marks' card in tableau sheet.**

   **ANS -**
   - In Tableau, the Marks card is a crucial element that allows you to control and customize how your data is represented on the visualization canvas.

   - As you drag fields to different properties in the Marks card, you add setting and detail to the marks in the view.

   - The Marks card is located on the left side of the Tableau interface, typically above the Columns and Rows shelves. It plays a central role in defining the visual encoding of your data points in the view.

   - The fields on the Marks card are listed at the bottom of the card. Each field has an icon next to it to identify the mark property it is setting.

2. **Explain about different options in marks card that are Color, Tooltil, Size, Detail, Lable in Tableau.**

   **ANS -**
   **Color -**
   - The Color shelf on the Marks card enables us to assign colors to the marks based on a dimension or a measure.

   - This helps in visually distinguishing different categories or showcasing variations in the data. We can choose from a range of color palettes or create custom color assignments.

   - For example, we can use color to represent different regions, categories, or highlight data points based on certain conditions.

**Tooltip -**
- The Tooltip shelf allows us to define what information is displayed when we hover over a data point in your visualization.

- We can drag and drop fields onto the Tooltip shelf to include details such as the actual values, percentages, or any other relevant information.

- Tooltips provide additional context to the viewers without cluttering the main visualization.

**Size -**
- The Size shelf on the Marks card allows us to adjust the size of the marks based on a measure.

- This is particularly useful when we want to emphasize certain data points or indicate the magnitude of a particular variable.

- For example, we might use size to represent sales volume, population, or any other quantitative measure. Larger marks can draw attention to significant data points.

**Detail -**
- The Detail shelf enables us to add more detail to marks by breaking them down into sub-categories.

- We can drag a dimension to the Detail shelf to show additional information without changing the primary visual encoding.

- This is useful when we want to explore data at a more granular level without cluttering the main view. It's a way to drill down into specific aspects of th data.

**Label -**
- The Label shelf allows us to add text labels to marks, typically displaying the values of a specific field.

- Labels are useful for providing precise information about data points in visualization.

- We can choose to display labels for the entire mark or customize them to show specific information, such as percentages or averages.