**Business Intelligence Testing**

**Steps to download Tableau**

**Step1:** Login to google drive

link: [Tableau - Google Drive](https://drive.google.com/drive/u/0/folders/1MCD4yU1B66X4Tklks4dR9GNpmHCeEDfq)

**Step 2:** download all the files

1.readme.txt

2.setup (1).exe

3.tabui.dll

**Step 3:** click on setup (1).exe file and install and after installation close the window.

**Step 4:** go to the below path

C:\Program Files\Tableau\Tableau 2019.3\bin

**Step 5:** Replace tabui.dll file in path C:\Program Files\Tableau\Tableau 2019.3\bin

**Step 6:** Go to start menu and type tableau and open.

**Tableau**

* Tableau is powerful data visualization tool used in BI
* It simplifies the raw data into a very understandable format.
* It visualizes and creates interactive, sharable dashboards.
* Tableau is not required any technical programming skills

**Features**

**1.Data Blending:** It is used to combine related data from multiple sources, which you want to analyze together in single view, and represent in the form of graph.

**2.Rela-time analysis:** Real time analysis makes users able to understand and analyze data when volume of data is high and real-time analysis of data is complicated.

Tableau can help extract valuable information from fast-moving data with interactive dashbords.

**3.Collabrtion of data:** Team members can share data, and create simple visualizations at one place so that every one can understand data and make use and make decisions.

**Tableau Tools:**

**1.Tableau Desktop:**

Tableau desktop establishes the connection between DWH and other various types of files.

Tableau desktop will help to create dashboards and workbooks which can be shared locally or publicly.

**2.Tableau Public:**

This Tool is built to design cost-effective reports and the word PUBLIC means , Created workbooks can not be shared locally and which kept publicly and which can viewed and accessed by everyone.

**3.Tableu Online:**

Tableau online has similar functionality as tableau server but data stored on server is hosted on the cloud, there is no storage limit on which data is published.

**4.Tableau Server:**

Tableau server is used to share workbooks, Visualizations which is created on tableau desktop and which can be shared on tableau server.

First, we need to publish workbook on tableau desktop and then we can upload to server and it can be accessed by authorized users.

**5.Tableau Reader:**

It is free tool which allow us to view the visualizations and workbooks which is created using tableau desktop.

**Terminologies In tableau:**

**1.Bookmark (.tbm):**

A. tbm document in the bookmarks folder in tableau repository that contain single worksheet.

It is just like web browser bookmarks.

**2.Workbook:**

A workbook is a file with .twb extension that holds one or more worksheets as well dashboards and stories.

**3.Dashboard:**

Dashboard combines a several views that arranged on single page, Dashboards are used to observe and compare variety of data together.

**4.Data Source page:**

Data Source page is page where you can set up your data source, data source consists of four main areas i.e., Join area, Left Pane, Preview area and Metadata area.

**5.Worksheet:**

Worksheet is collection of sheets. It’s place where you can build views of your data by dragging fields into shelves.

**6.Dimension:**

Dimensions are always descriptive in nature and which describes allthe detail information about the fields.

**7.Measures:**

Measures are the measurable quantities of the data and which can be analyzed along with dimension table.

**8.Filter Shelf**

Filter shelf is located on the left side of the workbook. Filter shelf is used to exclude data from view by filtering it using both dimension and measures.

**9.Pages Shelf**

Page Shelf is on the left side of the view. With the help of page shelf, we can split a view into a sequence of pages based on values.

**10.Marks Shelf**

Marks shelf is on the left side of the worksheet. The user can drag fields to control mark properties such as color, type, shape, size, label, detail, and tooltip.

**Data Types in Tableau**

* Tableau expresses fields and assigns data types automatically.
* If the data source does not assign data type, then tableau will assign automatically.

Tableau Consists following data types

* Date values – Calendar symbol
* Text Values – Abc symbol
* Numeric values - # symbol
* Date and time Values – Clock and calendar symbol
* Boolean Values – T/F symbol
* Geographic values – Word symbol

**Different Types of connection**

1. **Live:** Live connection sends queries to your database and retrieved data. These queries will return whatever data currently in the database.
2. **Extract:** Extracts connection saved subsets of data that use to improve performance and which can be analyzed by using tableau.

**BI Testing Document**

To test any BI reports or analysis made by using BI tool we need below documents

1. SRS/BRS/FSD document of that report.
2. Data Usage Sheet (Specifies attribute/Column details about the report)
3. Report Wireframe (Blue Print or exact copy of report)
4. Data Sample sheet (Data Populated in report)
5. BI Mapping sheet (Optional)