**What is Tableau?**

Tableau is a powerful and fastest-growing data visualization tool used in the business intelligence industry. It allows you to simplify raw data into a very easily understandable format.

Data analysis is very fast with Tableau, and the visualizations created are in the form of dashboards and worksheets. This helps professionals to understand the data that is created using Tableau at any level in an organization.

**What is a Power BI?**

Power BI is a Business Intelligence and Data Visualization tool which helps you to convert data from the various data source into interactive dashboards and BI reports. It also provides multiple software connectors and services.

## KEY DIFFERENCES:

* Tableau deploys MDX for measures and dimensions while Power BI uses DAX for calculating and measuring columns.
* Tableau platform is known for its data visualization functionality whereas Power BI offers numerous data points to offer data visualization
* Tableau BI can handle a huge volume of data with better performance while Power BI can handle a limited volume of data.
* Tableau works best when there is a vast data in the cloud but Power Bl doesn't work better with a massive amount of data
* Tableau is used by analysts and experienced- users mostly use for their analytics purposes and Power BI is used by both naive and experienced users.
* Tableau is a little difficult whereas Power BI Interface is very easy to learn.

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| **Tableau** | **Power BI** |
| Tableau BI can handle a huge volume of data with better performance. | Power BI can handle a limited volume of data. |
| Tableau platform is known for its data visualization functionality. The users can use 24 different types of visualizations in Tableau. | PowerBi offers numerous data points to offer data visualization. lt is offering more than 3500 data points for drilling down the dataset. |
| Tableau has excellent customer support. It has a large community forum for discussions. | Power Bl provides limited customer support to its users with a free Power Bl account. However, the paid version users will get faster support compared with the free version. |
| Tableau works best when there is a vast data in the cloud. | Power Bl doesn't work better with a massive amount of data |
| Analysts and experienced- users mostly use for their analytics purposes. | It is used by both naive and experienced users. |
| Tableau is a little difficult. | Power BI Interface is very easy to learn. |
| The information can be stored by using the Tableau server. | Power BI concentrates more on reporting and analytical modeling but not for storing the data. |
| Suitable for medium & Large type of Organisation. | Suitable for Small, medium & large type of organization. |
| Tableau deploys MDX for measures and dimensions. | Power BI uses DAX for calculating and measuring columns. |
| Tableau can connect to numerous data sources. | Power BI connects limited data sources while increasing its data source connectors in monthly updates. |
| Embedding report is a real-time challenge in Tableau | Embedding report is easy with Power BI. |

**Advantages of Tableau**

Here, are pros/benefits of using Tableau BI:

* Less cost of training
* Very fast and easy to create visualizations
* Good customer support
* Data Interpreter Story-telling ability
* Tableau offers a feature of visualization
* It helps you to combine shape & clean the data for analysis.
* It helps you to handle a large amount of data.
* Uses scripting languages like R & Python to avoid performance for complex table calculations.
* Allows users to create reports, dashboards, and stories using Tableau Desktop.

**Reference:**

<https://www.guru99.com/tableau-vs-power-bi-difference.html>

<https://www.simplilearn.com/tutorihttps://www.guru99.com/tableau-vs-power-bi-difference.htmlls/power-bi-tutorial/power-bi-vs-tableau>

<https://www.youtube.com/watch?v=6RZEaEH9ZsQ>