

## **Comparative Study of dashboard software for accounting Challenges and Opportunities for BI**

Dr.Manisha Kumbhar<sup>1</sup>,Dr.Vidya Gavekar<sup>2</sup>,Shubham Kanugo<sup>3</sup>

### **Abstract:**

*This research paper is based on the report generation performance of the dashboard software. The research paper briefs the different dashboard softwares available in the market. This document will help in knowing the various challenges and opportunities while using the dashboard softwares.*

**Keywords:**Dashboard Softwares, Tableau, BI

### **I. INTRODUCTION**

This research paper speaks about the dashboard softwares which are being used for representation of data in various forms. The dashboard softwares are playing an important role in bussiness analytics. Bussiness analytics nowadays is becoming a necessary aspect of all the organizations. The concept of dashboard software can be implemented in the MS-Excel also upto some extent. The need to research in this domain is to find a dashboard software which is able to present the data in multiple types of formats and which is compatible to different databases.

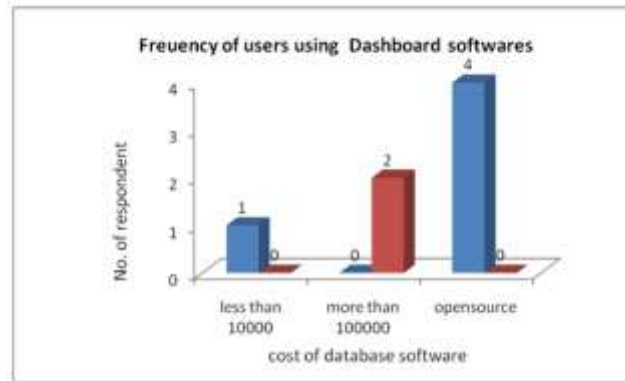
### **II. DASHBOARD SOFTWARE**

Dashboard softwares basically report generation softwares is used for the various aspects of the report generation. Although report are generated using the Excel also but there are special softwares available in market called dashboard software for the report generation purpose. Data analysis is very important for any growing organization. There are many methods tools available to analyze data and generate reports. For data analysis dashboard softwares are available, which enables user to generate a fancy visual representation of data. Dashboard softwares are so compatible to use that anon technical person can easily handle it. A data dashboard is an information management tool that visually tracks, analyzes and displays key performance indicators (KPI) to track the health of a business, department or specific process. They are customizable to meet the specific needs of a department and company. Now a days the data is getting big in size volume and variety. For analysing such a big amount of data the tools like excel are not sufficient for that there is requirement for special report generation tools such as Tableau, iDashboard etc. These all report generation tools provide various modes and method through which we can create report and represent the data in various format.

### **III. VARIOUS DASHBOARD SOFTWARES**

For researching the dashboard software various dashboard softwares on the basis of commercial and open source classification were sorted out. All the softwares were observed for their features and capability of the report generation. For that questionnaire for the analysis was surveyed which concluded in following analysis.

Graph No. 1



This table indicates the frequency of the users purchasing the dashboard softwares.

The various dashboard softwares are compared on the basis of the features of the Tableau as a benchmark.

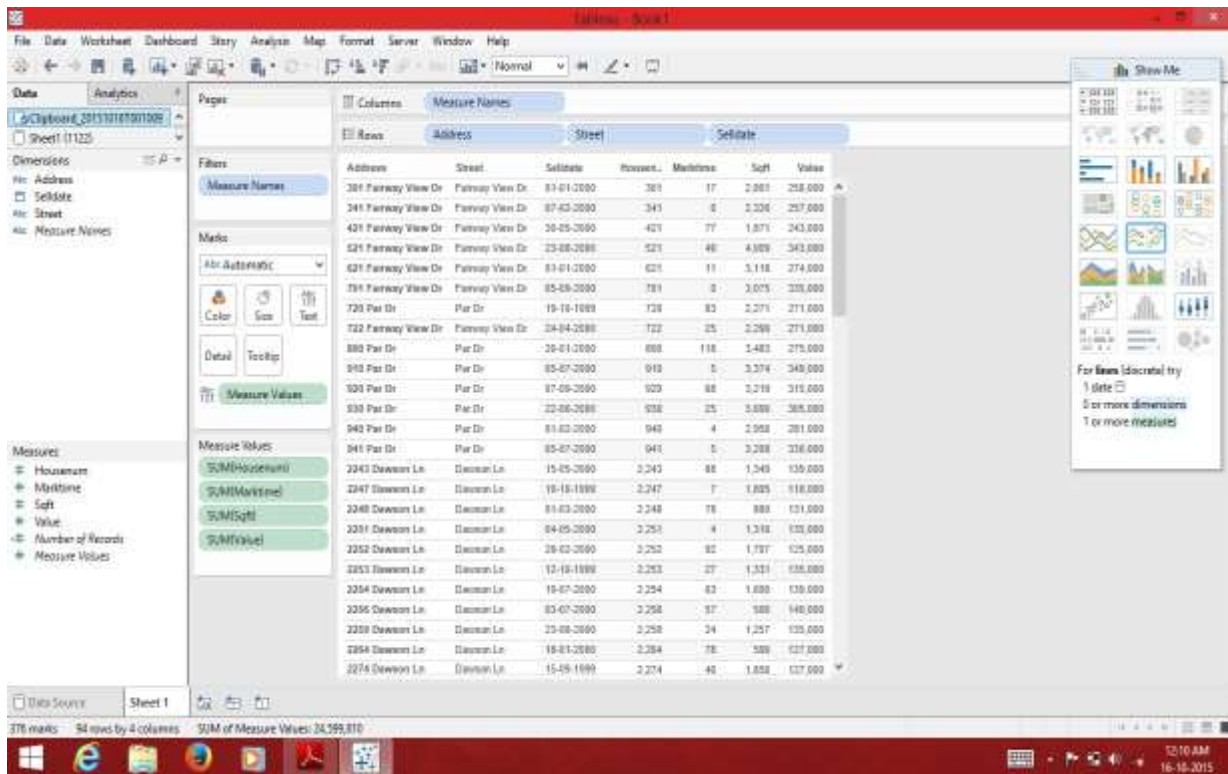
Table No. 1: Comparison of Different data analysis tools

Data analysis Tools	Support for statistical data	Extensive data source support	Ad-Hoc calculations	Query performance improvements	Smart maps	Admin views	Visual analytics	Opensource
<b>1.Tableau</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
<b>2.iDashboard</b>	No	No	Yes	Yes	No	Yes	Yes	No
<b>3.JasperReports</b>	Yes	Yes	No	No	No	Yes	No	Yes
<b>4.Libre Open Office</b>	Yes	No	Yes	Yes	No	No	No	Yes
<b>5.Pentaho</b>	Yes	Yes	No	No	No	Yes	No	Yes

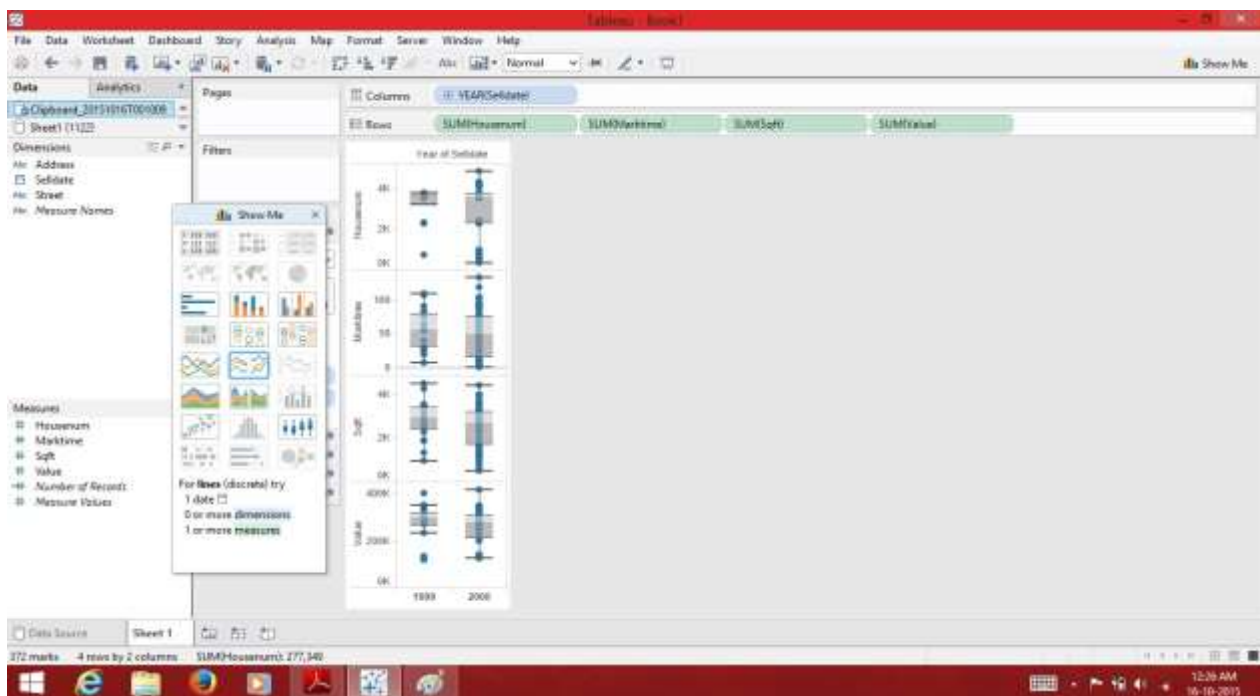
The above table shows the analysis of the different dashboard softwares

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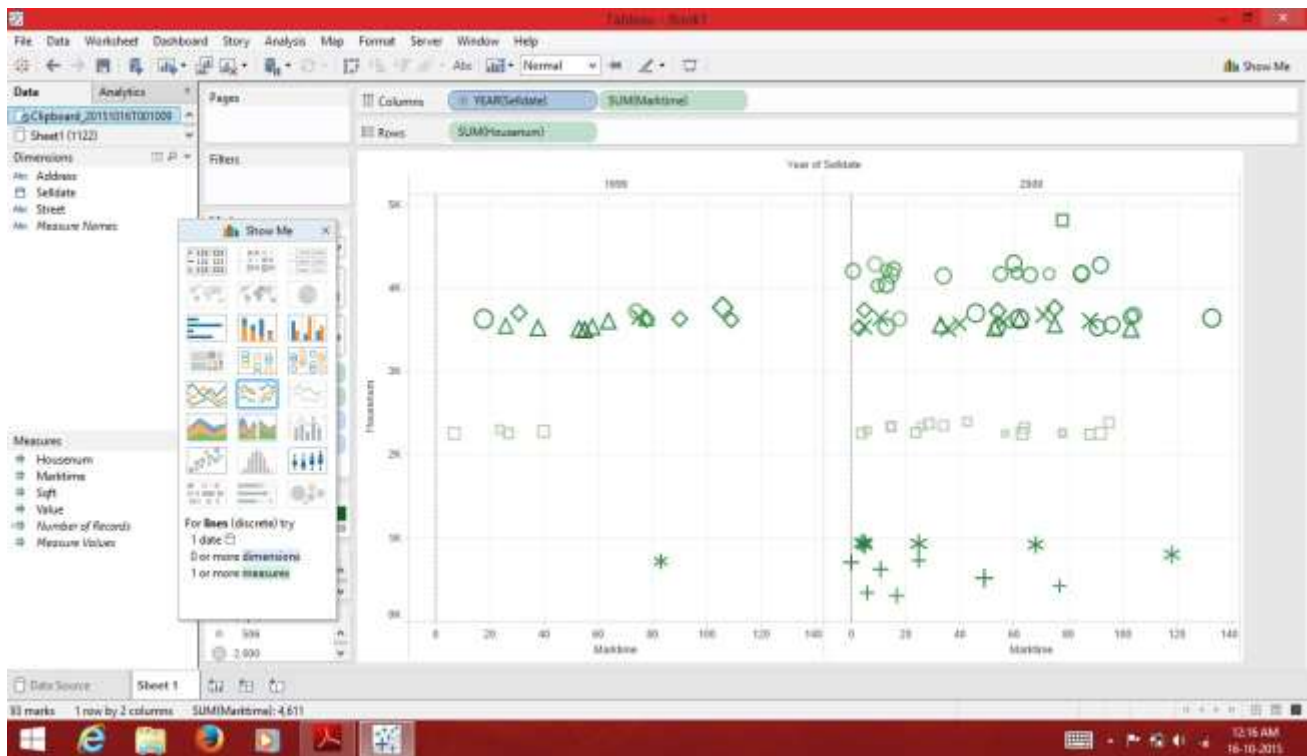


Img 1: Tableau can connect to the more than 20 databases in just one click.

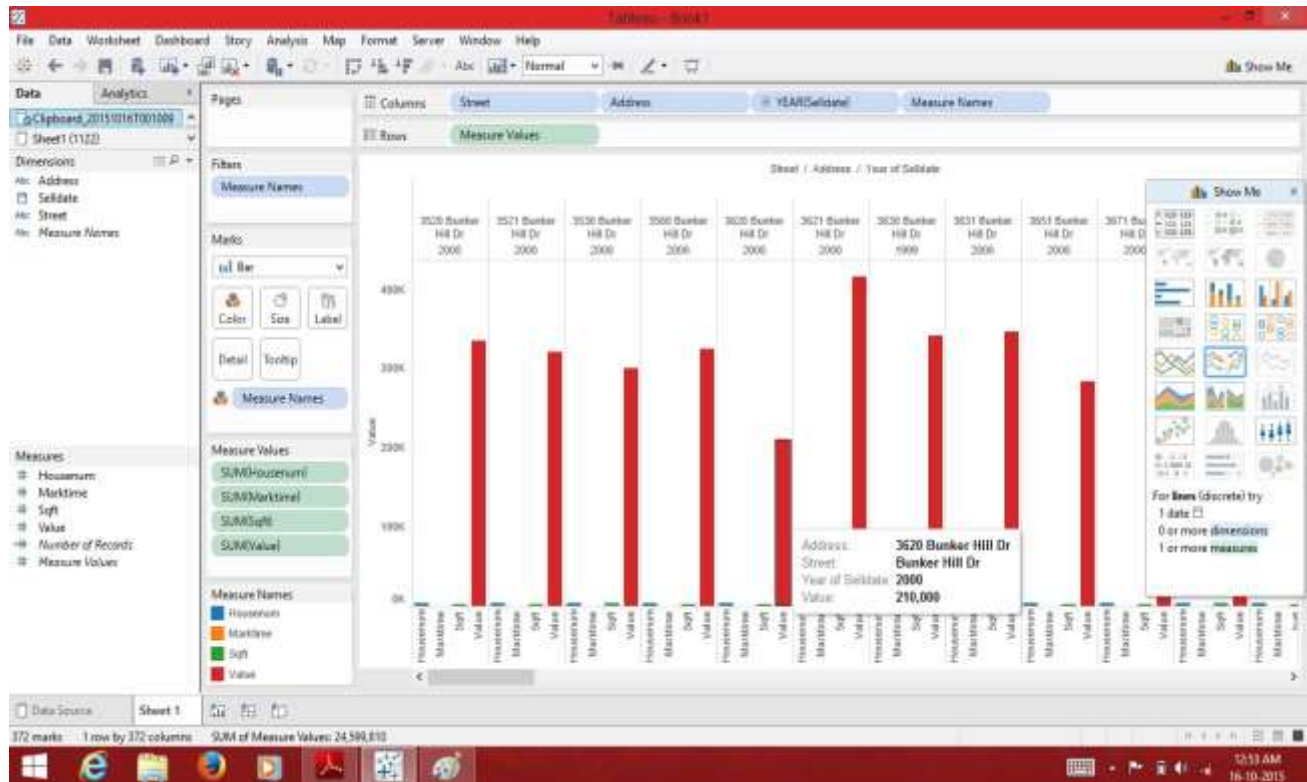


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Img 2: Representation using the box and whisker plot



Img 3: Representation using the scattered plot.



Img 4: Representation with Side by Side bars.

#### IV. CONCLUSION

Based on the analysis of the different dashboard softwares many of them provide different features for analysis of data. Many commercial and opensource options are available in market. Whereas more features are provided by commercial dashboard applications. While the opensource alternatives do not provide many features. A combination of all the basic important features and cost efficiency will give a proper solution for business intelligence.

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