

CHANGING THE WAY YOU THINK ABOUT DATA



TABLEAU

Presented by Alpha-II

Tableau?

Data Visualization

Tableau is an easy to learn and easy to use drag and drop technology. It is a visual analysis solution that allows us to explore and analyze data with simple drag and drop operations.

It connects easily to any data source like Microsoft excel, corporate data warehouse or any web-based data.



Data Visualization



- It refers to presentation of data in a graphical or pictorial form, such as a pie chart or a bar graph
- A systematic mapping is achieved through representation of graphic marks and data values
- It allows our brain to recognize patterns far more quickly than any other method.
- A visualization tool provides data in a meaningful format by analyzing previously-recorded data and predicting future patterns

IMPORTANCE OF TABLEAU



VISUAL ANALYSIS

Tableau analyzes data in a logical manner and makes visualizations

DRAG & DROP

Tableau uses drag and drop interface which offers a user-friendly environment

INTERACTIVE DASHBOARD

It has a very interactive dashboard that gives rich visualizations

DIRECT CONNECTION

Tableau connects the users directly to databases, data warehouses and other sources of data.

Data

Tableau Server

Clients

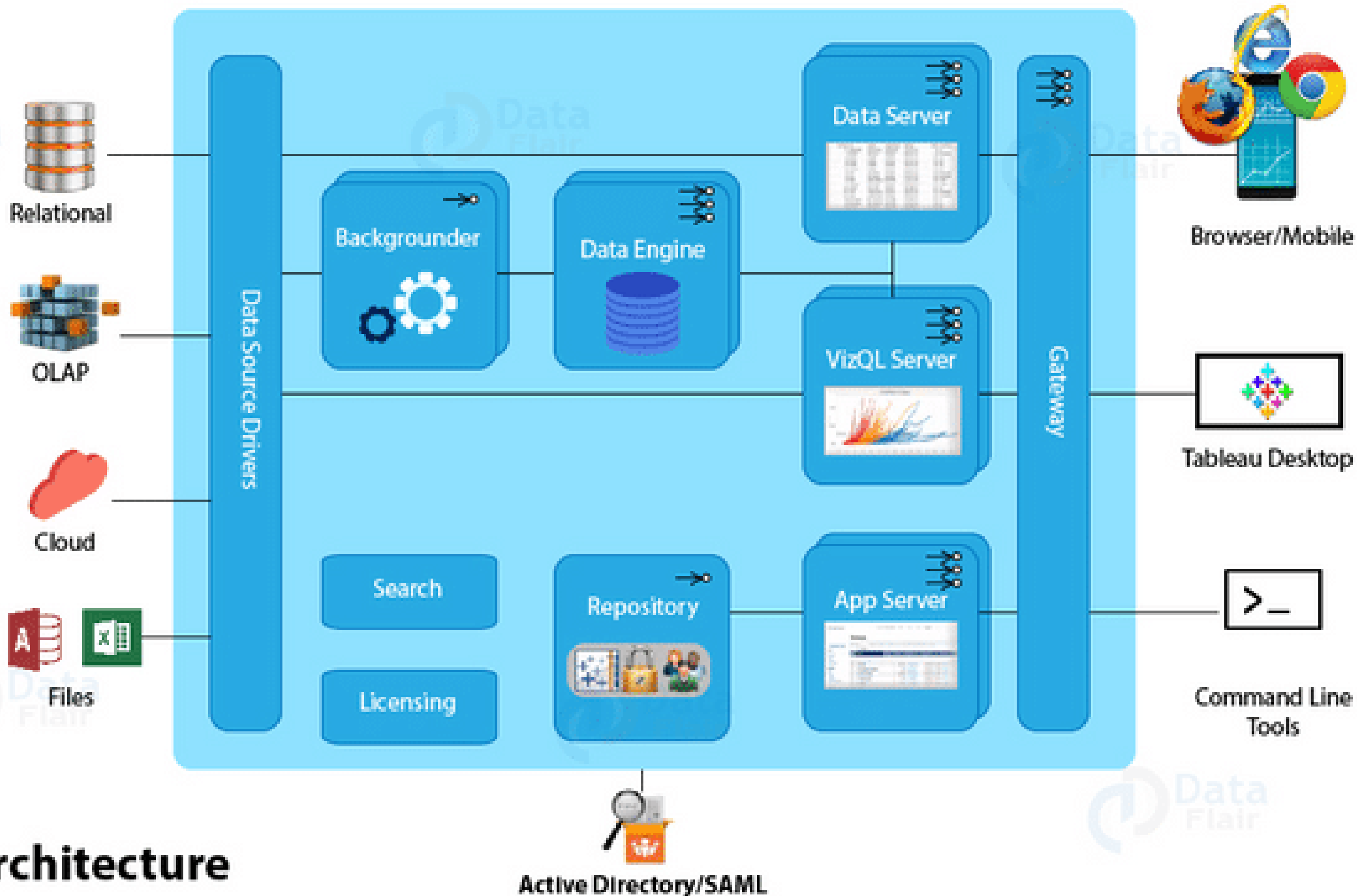


TABLEAU ARCHITECTURE CONT.

DATA SOURCE

Tableau architecture is where a user can extract data from a of data source options available like SAP, Oracle, Excel file, MySQL etc.

TABLEAU SERVER

The Tableau Server has many components working together as it manages a bunch of important processes.

VISUALIZE DATASET

The clients are the end users using Tableau through a web, mobile devices, on-cloud, on-premise, or on a command-line interface for development.

DATA CONNECTORS

1

Connect external data source

Provide an interface to connect external data sources to Tableau Data Server

2

ODBC/SQL connector

Has in-built ODBC/SQL connector – helps to connect to any databases without using their native connector

3

Live connection

Tableau can connect to real time data by linking to the external data directly

4

Extracted or In-memory data

Tableau has an option to extract the data from external data sources

DATA SERVER

MULTIPLE DATA SOURCES

Primary component – can connect to multiple data sources.

PARALLEL CONNECTION

Simultaneously connect to database, excel file and web applications

HETRO ENVIRONMENT

Connect from heterogeneous environments.

LOCAL & REMOTE DATA SOURCE

Data sources can be on premise or remotely located.

TYPES OF DATA CONNECTION

Connect	
Search for Data	
Tableau Server	
To a File	
Microsoft Excel	
Text file	
JSON file	
Microsoft Access	
PDF file	
Spatial file	
Statistical file	
More...	
To a Server	
Microsoft SQL Server	
MySQL	
Oracle	
Amazon Redshift	
More...	
Saved Data Sources	
Sample - Superstore	
World Indicators	

Search	
Actian Matrix	Marketo
Actian Vector	MarkLogic
Amazon Athena	MemSQL
Amazon Aurora	Microsoft Analysis Services
Amazon EMR Hadoop Hive	Microsoft PowerPivot
Amazon Redshift	Microsoft SQL Server
Anaplan	MonetDB
Apache Drill	MongoDB BI Connector
Aster Database	MySQL
Azure SQL Data Warehouse	OData
Box	OneDrive
Cloudera Hadoop	Oracle
Databricks	Oracle Eloqua
Denodo	Oracle Exalytics
Dropbox	Puchel Greenplum Database
Exasol	PostgreSQL
Firebird	Presto
Google Ads	Progress OpenEdge
Google Analytics	Salesforce
Google BigQuery	SAP HANA
Google Cloud SQL	SAP NetWeaver Business Warehouse
Google Drive	SAP Sybase ASE
Google Sheets	SAP Sybase IQ
Hortonworks Hadoop Hive	ServiceNow ITSM
IBM BigInsights	SharePoint Lists
IBM DB2	Snowflake
IBM FGA (Netezza)	Spark SQL
Intuit QuickBooks Online	Splunk
Intuit QuickBooks Online (9.3-2018.1)	Teradata
Kognito	Teradata OLAP Connector
MapR Hadoop Hive	TIBCO Data Virtualization
MaxDB	Vertica

JOINS...

INNER JOIN

When you use an inner join to combine tables, the result is a table that contains values that have matches in both tables..

LEFT JOIN

When you use a left join to combine tables, the result is a table that contains all values from the left table and corresponding matches from the right table.

RIGHT JOIN

When you use a right join to combine tables, the result is a table that contains all values from the right table and corresponding matches from the left table.

OUTER JOIN

When you use a full outer join to combine tables, the result is a table that contains all values from both tables.

JOINS

ConnectionsAdd

blockspring-results (2)
Text file

Files

☐ Use Data Interpreter
Data Interpreter might be able to clean your Text file workbook.

blockspring-results (1).csv

blockspring-results (2).csv

blockspring-results.csv

cal.txt

iris.data.csv

New Union

blockspring-results (2).csv

blockspring-results (1).csv

blockspring-results.csv

Sort fields

Data source order

Abc blockspring-results (1).csv imdbID (blockspr...	# blockspring-results (1).csv Year (blockspring-...	Abc blockspring-results (1).csv Type (blockspring...	Abc blockspring-results (1).csv Poster (blocksprin...	Abc blockspring-results (1).csv Title (blockspring-...	Abc blockspring-results Imdb ID
tt2705436	2007	movie	https://m.media-amaz...	Italian Spiderman	tt0934706
tt1785572	2010	movie	N/A	Spiderman	tt1673430
tt1132238	2007	movie	https://m.media-amaz...	Fighting, Flying and D...	tt0934706
tt1433184	2009	movie	https://m.media-amaz...	Spiderman and Grand...	tt1398941
tt2158533	2006	movie	N/A	Hollywood's Master S...	tt0839995
tt2158533	2006	movie	N/A	Hollywood's Master S...	tt0348150
null	null	null	null	null	tt0081573

TABLEAU IMPLEMENTATION

OMDb API

The Open Movie Database

The OMDb API is a RESTful web service to obtain movie information, all content and images on the site are contributed and maintained by our users.

If you find this service useful, please consider making a [one-time donation](#) or become a [patron](#).



Poster API

The Poster API is only available to patrons.

Currently over 280,000 posters, updated daily with resolutions up to 2000x3000.

Attention Users

04/08/19 - Added support for eight digit IMDb IDs.

01/20/19 - Supressed adult content from search results.

01/20/19 - Added Swagger files ([YAML](#), [JSON](#)) to expose current API abilities and upcoming REST functions.

[Become a Patron](#)

Sponsors

Emby, Trakt, FileBot, Cordcutting.com, Reelgood, Xirvik Servers, Yidio, Indexed, mi.tv, Couchpop, Key Video, What's on Netflix, iFlicks, Paper Leaf, Edu Reviewer, CraftResumes, Flixboss, DVD Lady, StreamingMoviesRight, TRITON, WP Setup

Usage

Send all data requests to:

<http://www.omdbapi.com/?apikey={yourkey}&>

API Key

Inbox x

The OMDb API <donotreply@omdbapi.com> [Unsubscribe](#) to me ▾

Here is your key: c772527

Please append it to all of your API requests,

OMDb API: <http://www.omdbapi.com/?i=tt3896198&apikey=c772527>

Click the following URL to activate your key: <http://www.omdbapi.com>
If you did not make this request, please disregard this email.

blockspring.com



Lists **new**

Reports

Pages

Get data fast.

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What Are You Looking to Do?

4



Use Google Sheets as a database for my website



Get API data into my Bubble app



Build an add-on for Asana, Trello, or Github



Build a connector for Excel, Sheets, or Tableau



Lists

Reports

Pages

Untitled Function

5

```
1 import blockspring
2 import requests
3
4 def block(request, response):
5     url = "http://www.omdbapi.com/?apikey=c772527&"
6     res = requests.get(url, params={"s": request.params["search"], "type": request.params["type"]})
7     response.addOutput("movies", res.json()["Search"])
8     response.end()
9
10 blockspring.define(block)
```

Add Parameter

6

Type

Text

Variable Name

type

Label

Type

Is Optional



Description

Enter your first name.

Input Features

☐ Free Form ☒ Static Options ☐ Dynamic Options

Display Name

movie

series

edisode

+ Add Option

Allow Freeform

Input Value

movie

series

episode

Delete

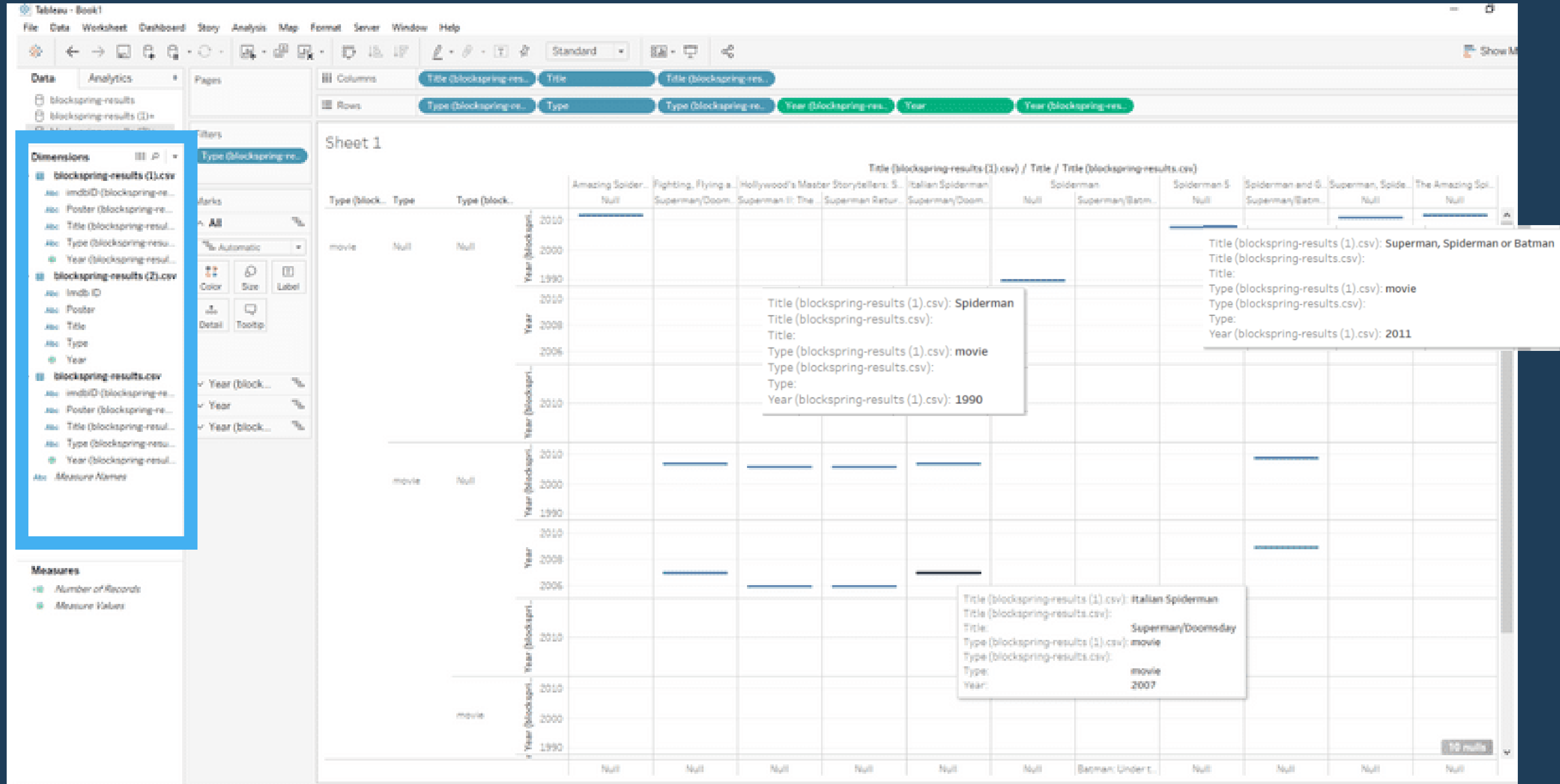
Delete

Delete

```
movies
[
  {
    "imdbID": "tt0106057",
    "Year": "1993-1997",
    "Type": "series",
```

7

TABLEAU DASHBOARD





Be Inspired

THANKS FOR YOUR TIME!

ALPHA-II

