

# Real-Time Stream Data Analysis

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# Architectural Overview:

Visual Paradigm Online Free Edition

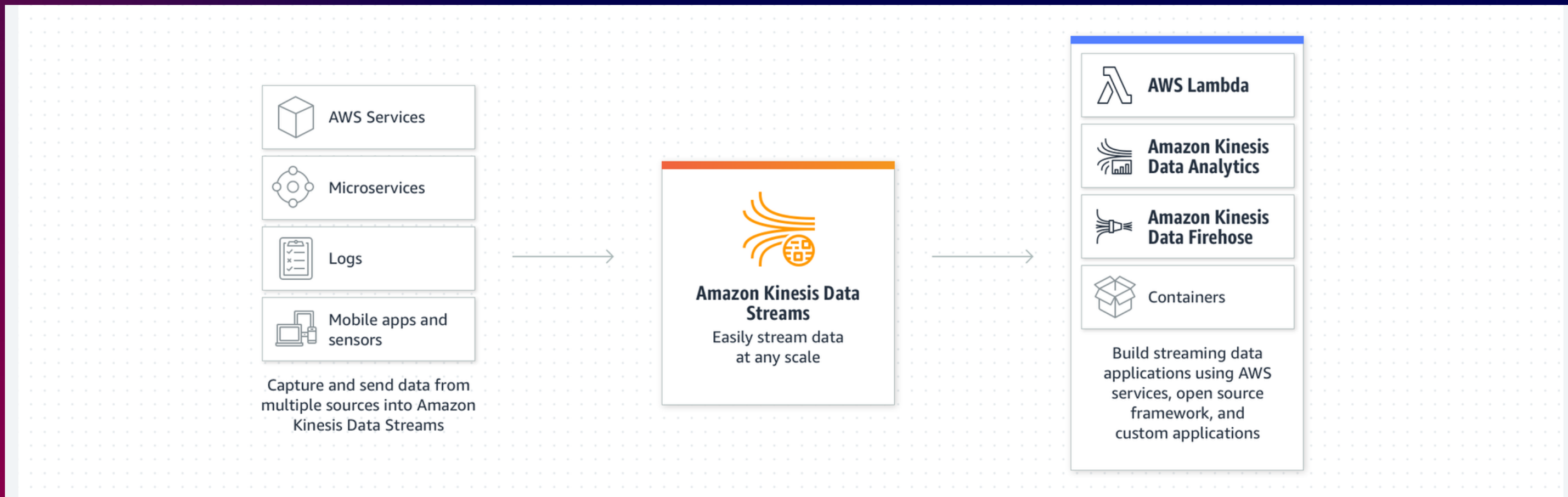


Visual Paradigm Online Free Edition



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# Amazon Kinesis Data Streams



To Collect and process large streams of data records in real time  
Use Case: Data-processing applications



# AWS S3



Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. Customers of all sizes and industries can use Amazon S3 to store and protect any amount of data for a range of use cases, such as data lakes, websites, mobile applications, backup and restore, archive, enterprise applications, IoT devices, and big data analytics.

# AWS Glue



AWS Glue is a serverless data integration service that makes it easy for analytics users to discover, prepare, move, and integrate data from multiple sources. You can use it for analytics, machine learning, and application development. It also includes additional productivity and data ops tooling for authoring, running jobs, and implementing business workflows.

Automates Data Discovery, Simplifies Access with management of data catalog





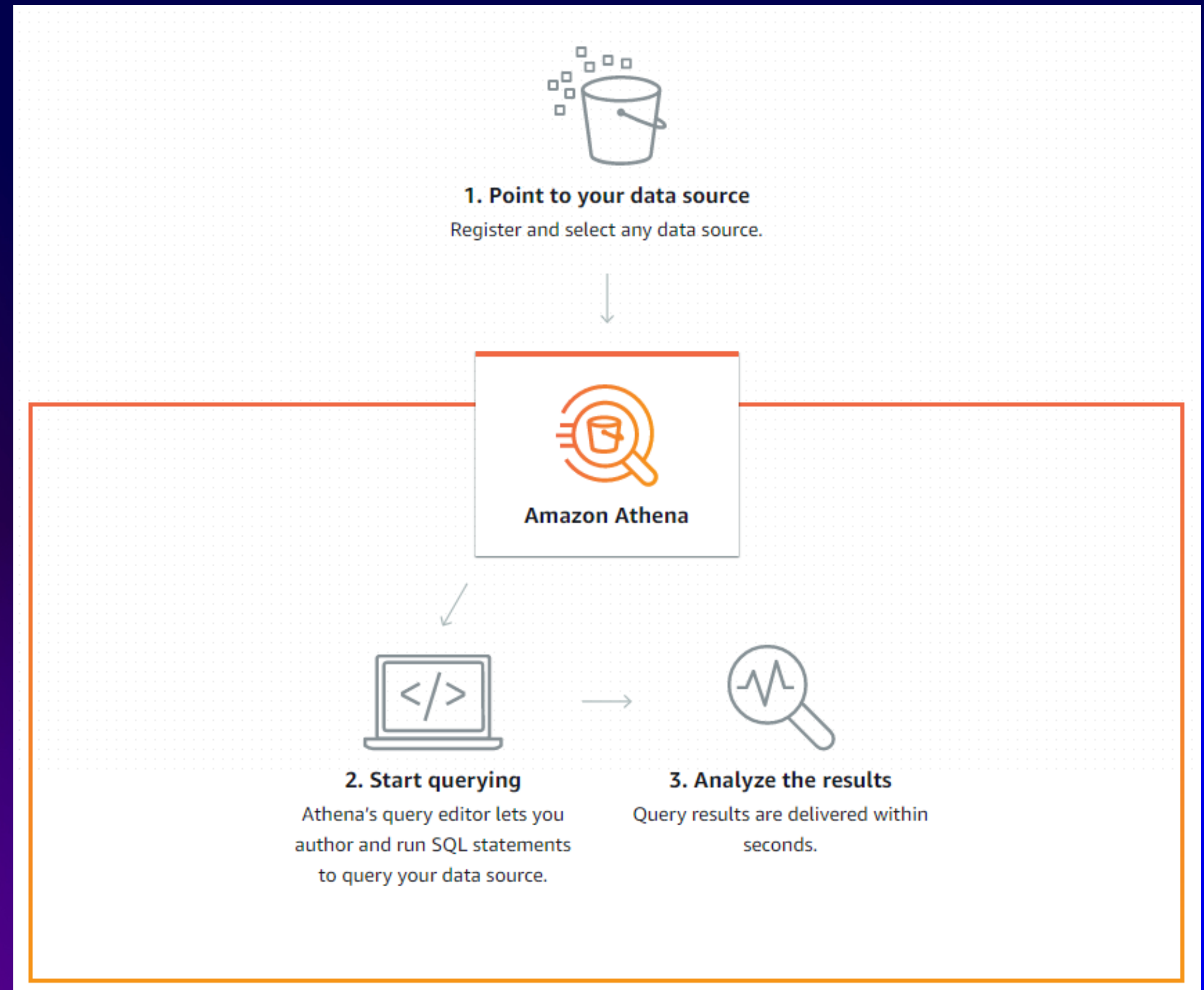
# AWS Athena

Amazon Athena is a serverless, interactive analytics service built on open-source frameworks, for Bigdata analysis. Athena provides a simplified, flexible way to analyze petabytes of data where it lives. Analyze data or build applications from an Amazon Simple Storage Service (S3) data lake and 25+ data sources, including on-premises data sources or other cloud systems using SQL or Python. Athena is built on open-source Trino and Presto engines and Apache Spark frameworks, with no provisioning or configuration effort required.

Store data in CSV, JSON format

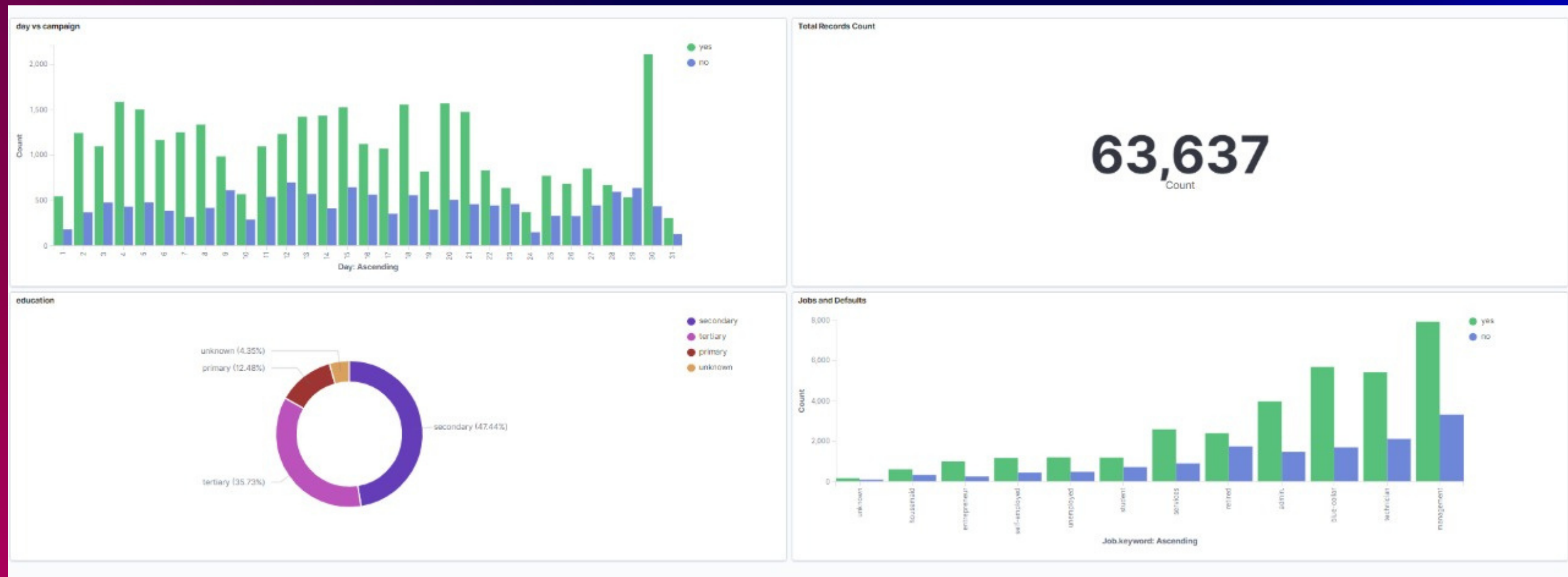
Automatic Parallel execution for fast performance

No Need of EMR Clusters



# Screenshots:

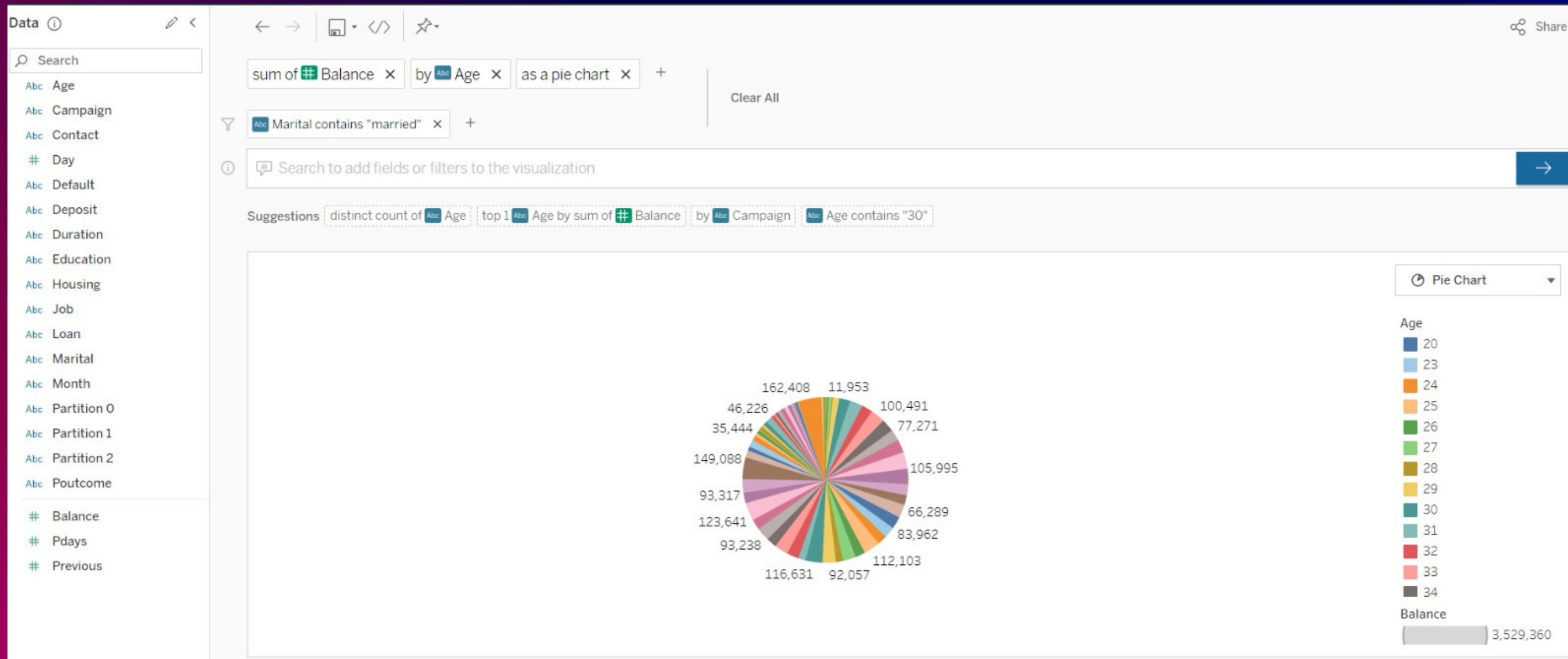
## Kibana Visualization:





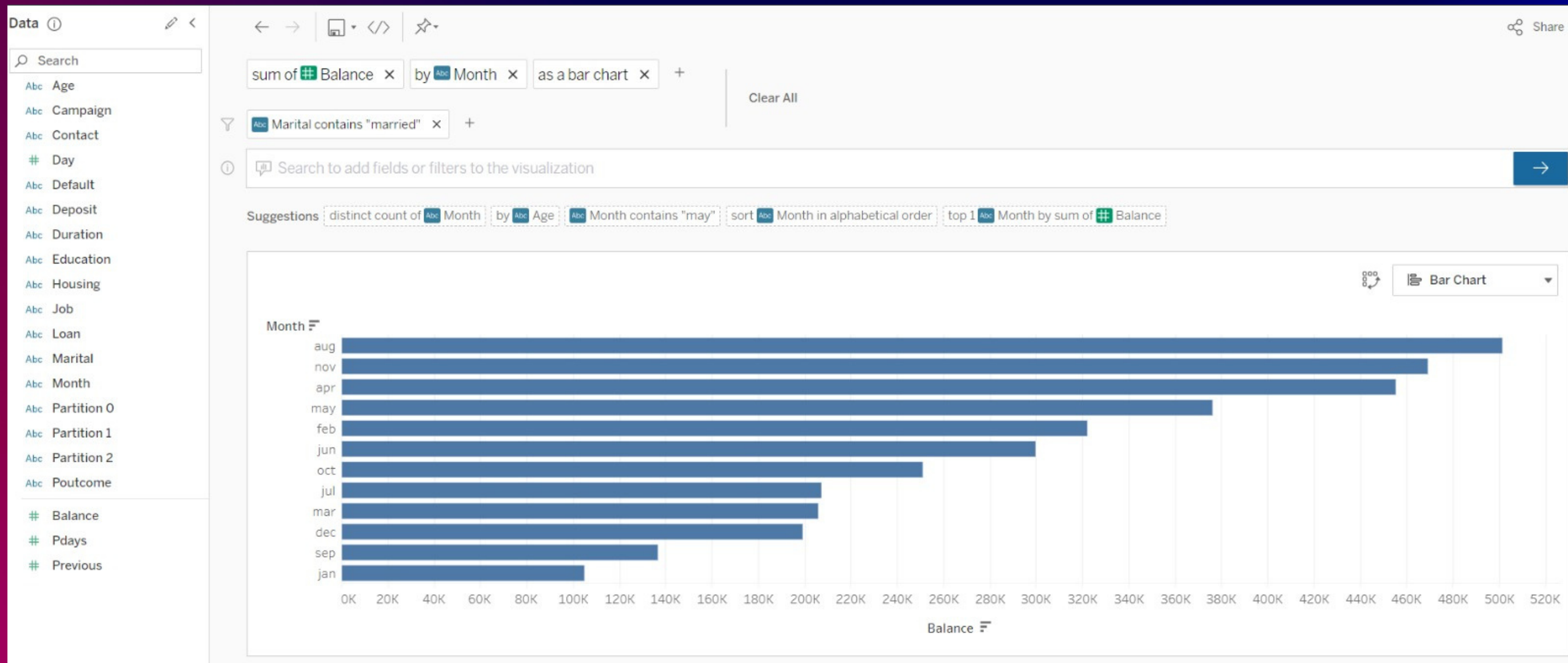
# Screenshots:

## Tableau Visualization:



# Screenshots:

## Tableau Visualization:





# Future Scope

1-Click Deployment  
Multiple source to single

# Thank you

Any questions?