K J Somaiya College of Engineering, Mumbai-77

(Constituent college of Somaiya Vidyavihar University)

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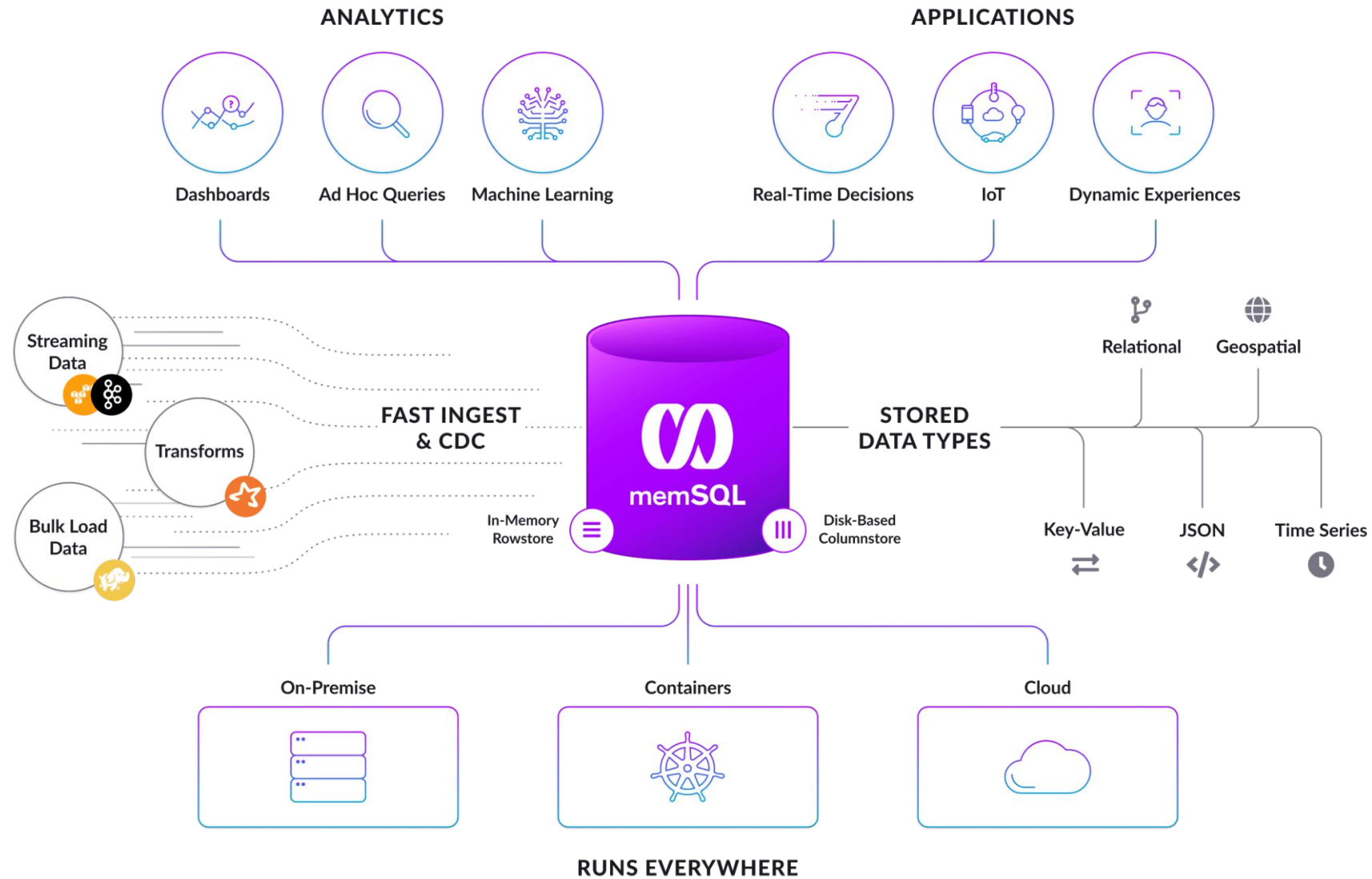
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INTRODUCTION

MemSQL is a distributed, relational, SQL database management system(RDBMS) that features ANSI SQL support and is known for speed in data ingest, transaction processing, and query processing.

MemSQL primarily stores relational data, though it can also store JSON data, graph data, and time series data. It supports blended workloads, commonly referred to as HTAP workloads, as well as more traditional OLTP and OLAP use cases. For queries, it compiles Structured Query Language (SQL) into machine code. The MemSQL database engine can be run in various Linux environments, including on-premise installations, public and private cloud providers, in containers via a Kubernetes operator, or as a hosted service in the cloud known as MemSQL Managed Service.

ANALYTICS

Dashboards Ad Hoc Queries Machine Learning

APPLICATIONS

Real-Time Decisions IoT Dynamic Experiences

Streaming Data

Transforms

Bulk Load Data

FAST INGEST & CDC

memSQL

In-Memory Rowstore Disk-Based Columnstore

STORED DATA TYPES

Relational Geospatial

Key-Value JSON Time Series

On-Premise Containers Cloud

RUNS EVERYWHERE

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MemSQL and Node.js Application Example

- **Install Node and NPM**

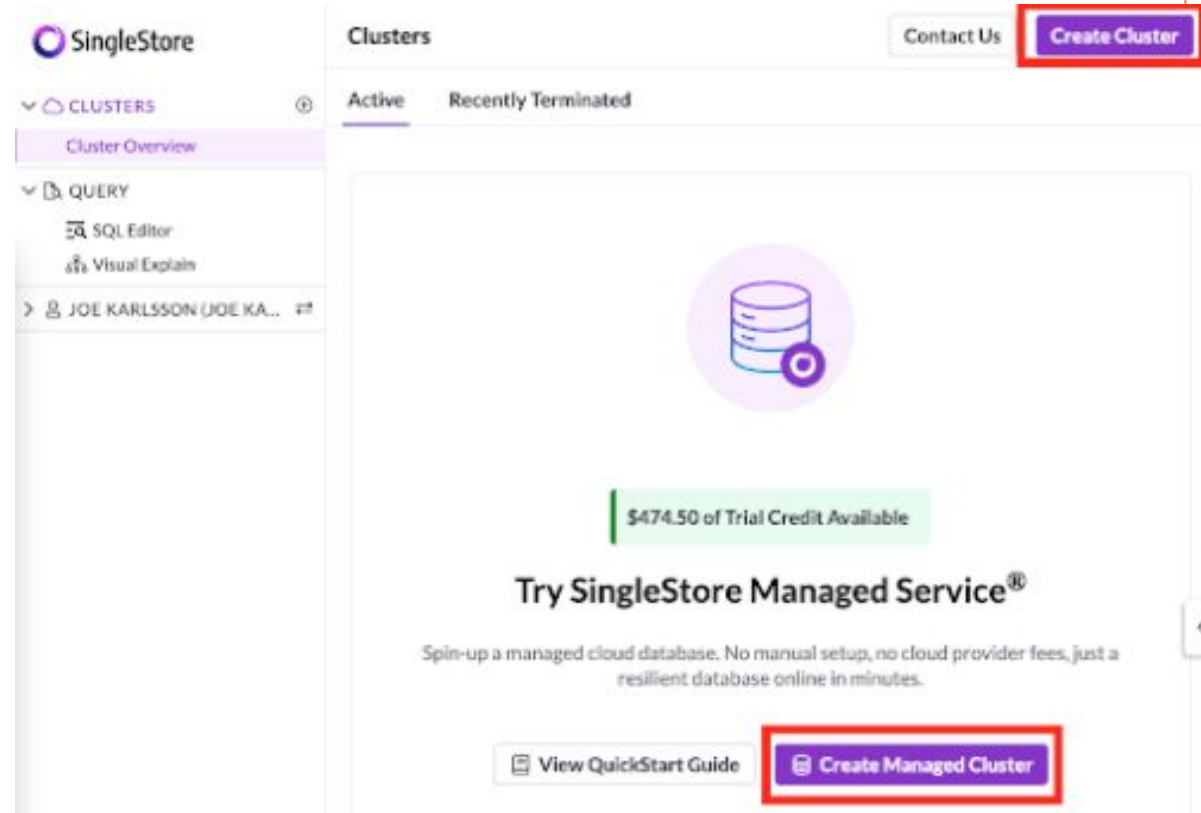- **Initialize Your Node.js Project**

```
mkdir MemSQL_node_quickstart

cd MemSQL_node_quickstart

npm init -y
```

- **Add MySQL2 as a Dependency**

```
npm install --save mysql2
```

- Create a MemSQL Cluster
- Set up a Free MemSQL Managed Cluster
- Create a Database and Table
- Connect to your Cluster
- Test to see that you have successfully connected to your MemSql database by saving the file, and by running commands in the terminal.

References

https://www.singlestore.com/blog/how-to-use-singlestore-and-node-js/

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https://docs.singlestore.com/managed-service/en/getting-started-with-managed-service/getting-started---next-steps/tutorials/building-a-new-application.html

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THANK YOU