

ORACLE  
Red Bull Racing



CLOUD PARTNER

# Racing to The Cloud



# MySQL HeatWave Database Service



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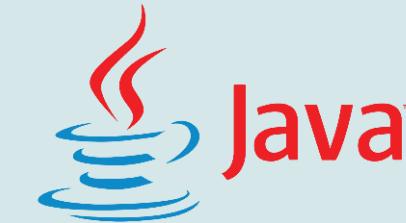
Rank			DBMS	Database Model	Jan 2023
Jan 2023	Dec 2022	Jan 2022			
1.	1.	1.	Oracle 	Relational, Multi-model 	1245.17
2.	2.	2.	MySQL 	Relational, Multi-model 	1211.96
3.	3.	3.	Microsoft SQL Server 	Relational, Multi-model 	919.39
4.	4.	4.	PostgreSQL 	Relational, Multi-model 	614.85
5.	5.	5.	MongoDB 	Document, Multi-model 	455.18

**DB-ENGINES**

## Custom Apps Development



**django**



## Content management and eCommerce



## Learning platforms



**Social applications**

**Fraud detection**

**Authentication systems**

**E-Commerce**

**Digital payments**

**Content management**

**Retail POS systems**

**IoT monitoring systems**

**Digital marketing**

**Online gaming**

**Users profile management**

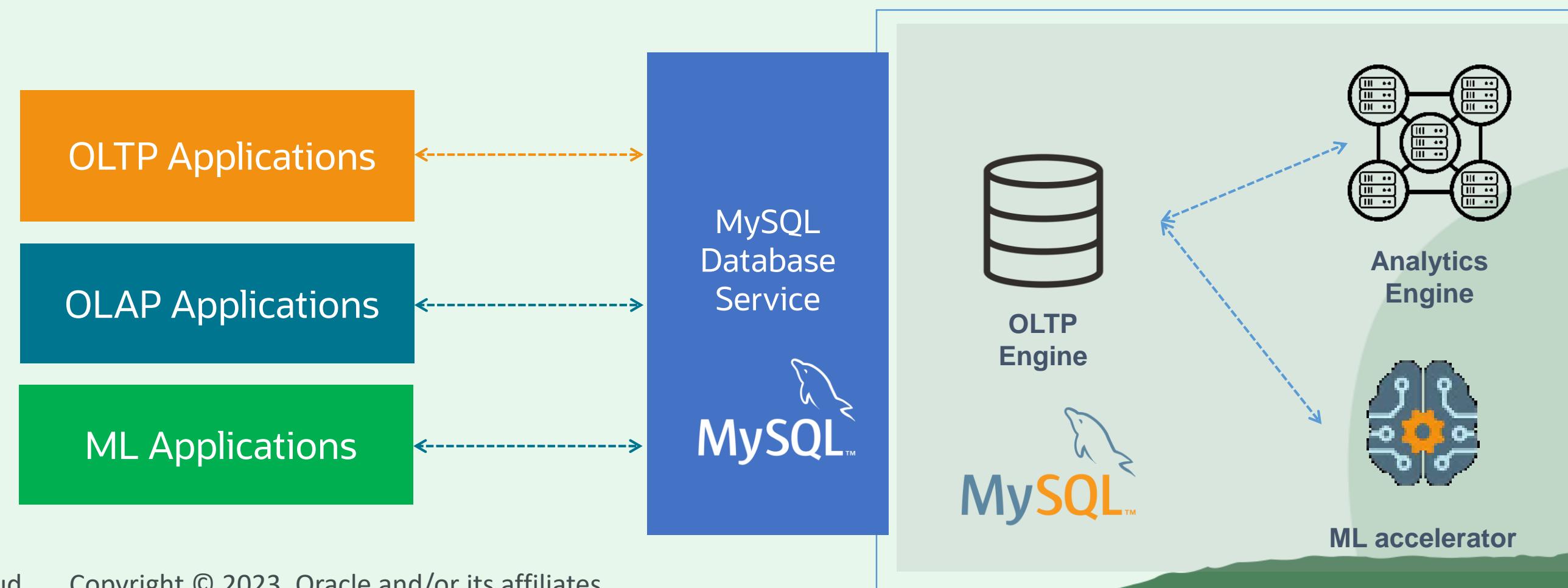
**Employee portals**

**Logistics applications**

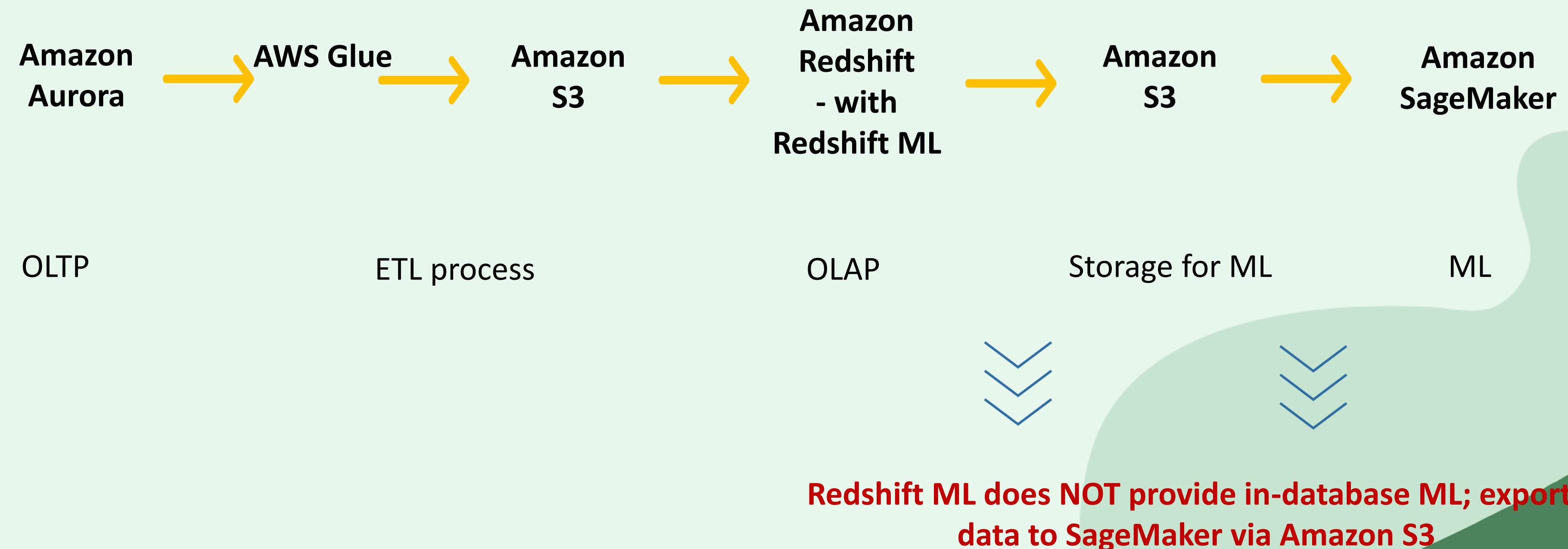
- Fully Managed Cloud Service with ease to use:
  - Deploy
  - Backup & Restore
  - Replication
  - MySQL High Availability Recover Point Objective (RPO) = ZERO (Zero Data loss )
- Powerfull union: Oracle Cloud Infrastructure (Gen2) E **MySQL Enterprise Edition 8**
- Last security updates
- 100% by Oracle **MySQL**
- Includes 24/7 and complemented with **Oracle Premier Support for MySQL**
- Specific options **MySQL Shell**

# HeatWave – Overview

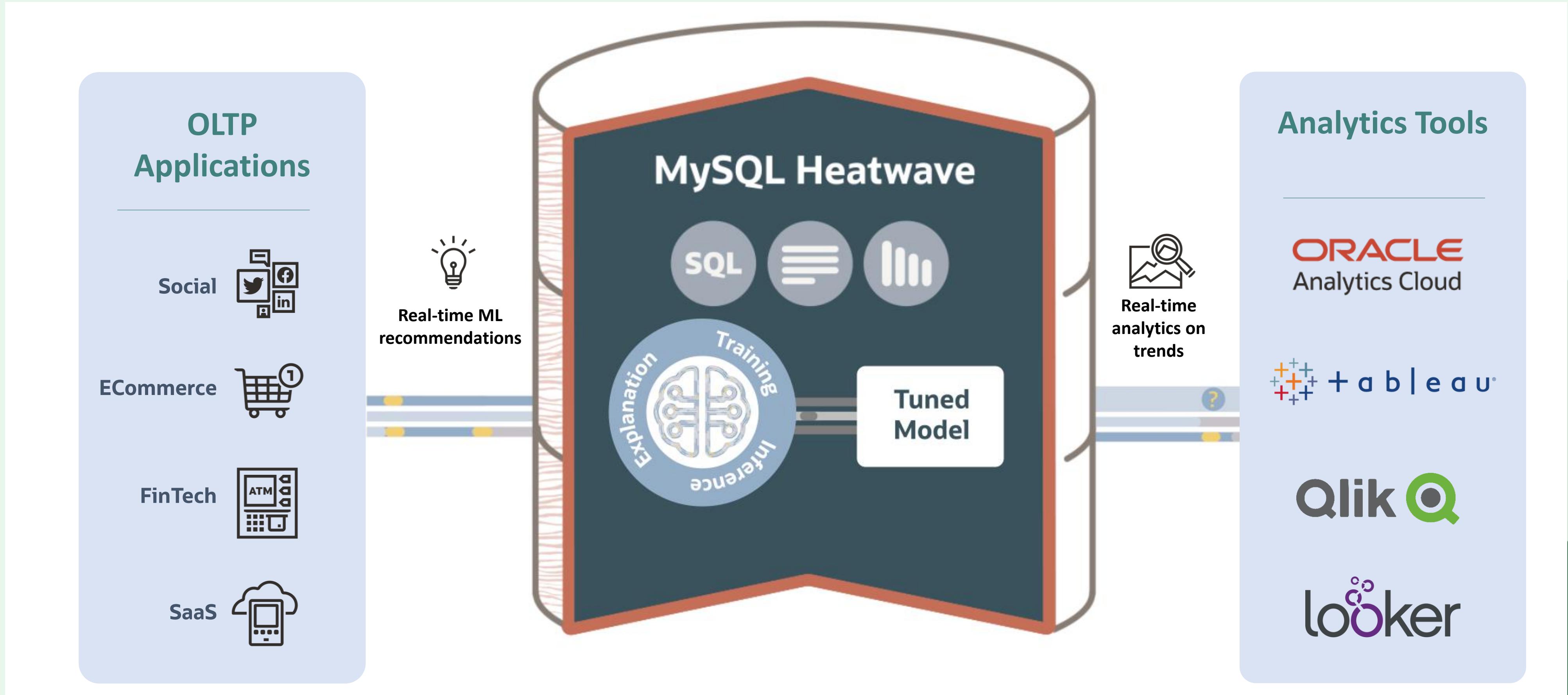
- Single DB MySQL for **OLTP, OLAP/Analytics e Machine Learning**
- No changes in already existing Apps, inc. Tableau, Qlik and Looker
- **Extreme Performance:** Many times faster than any other MySQL deployment
- NO ETL/ELT needed
- Automation based in **Machine Learning**



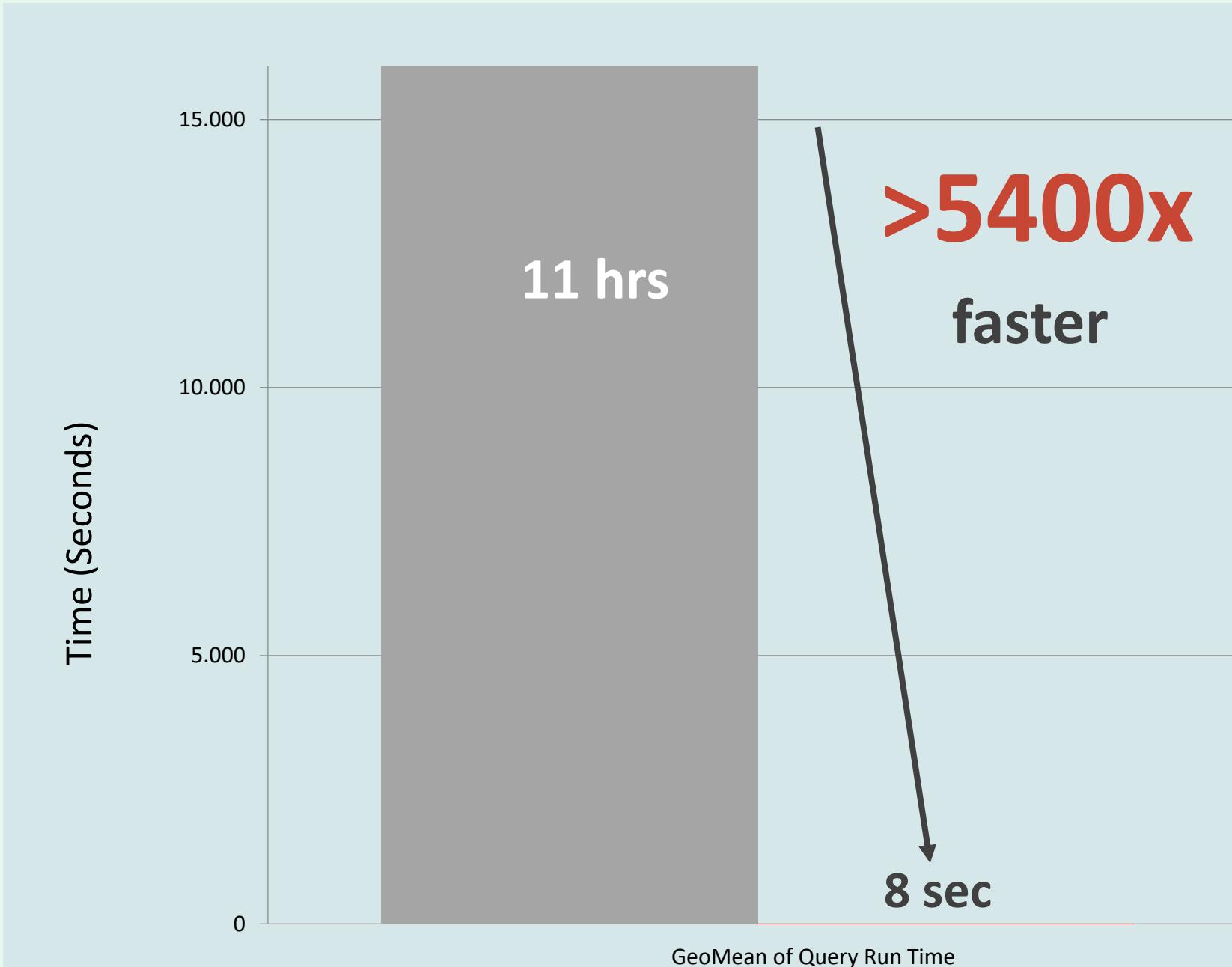
# A sample AWS deployment...



# Machine learning in action with MySQL HeatWave



4 TB

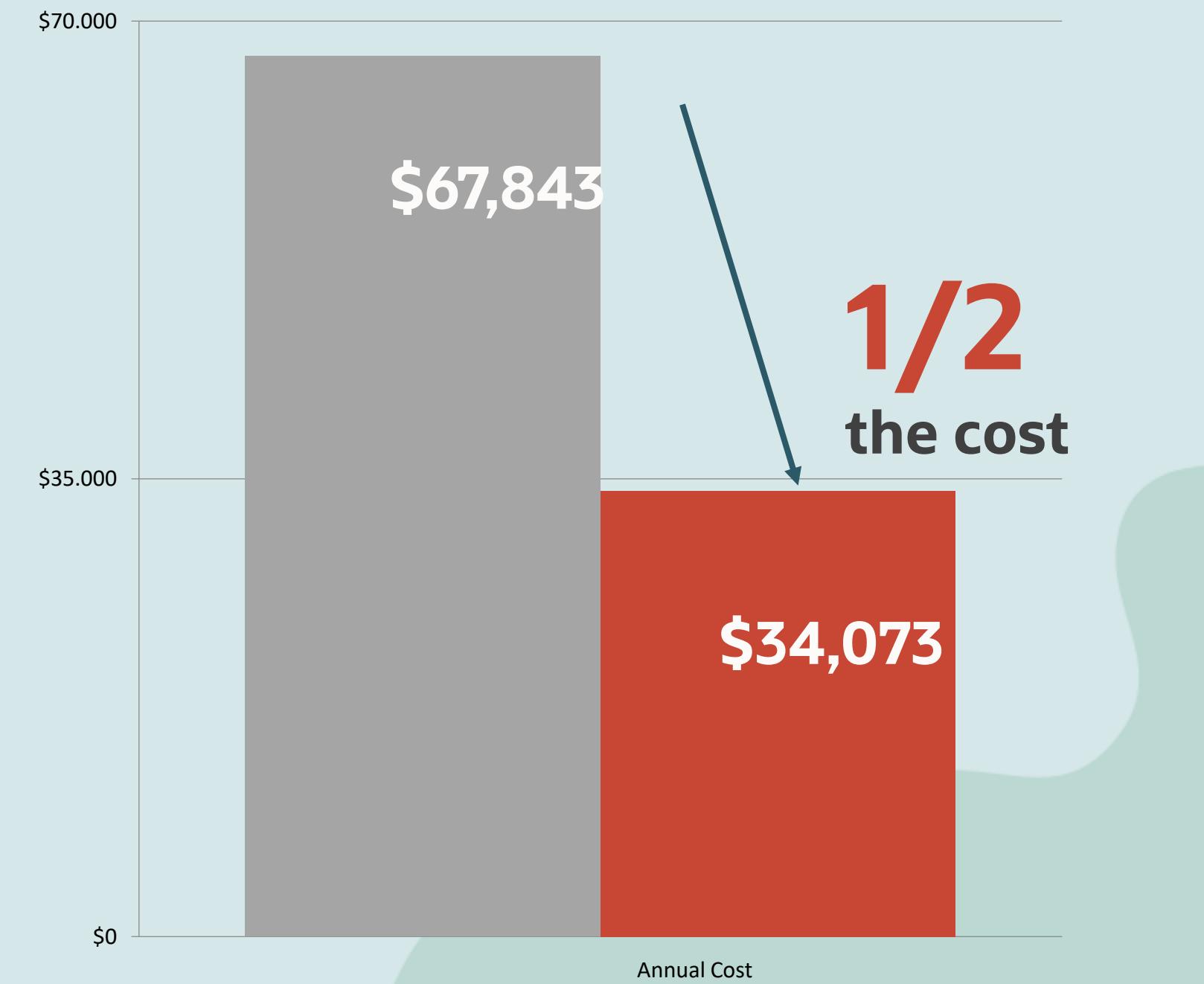
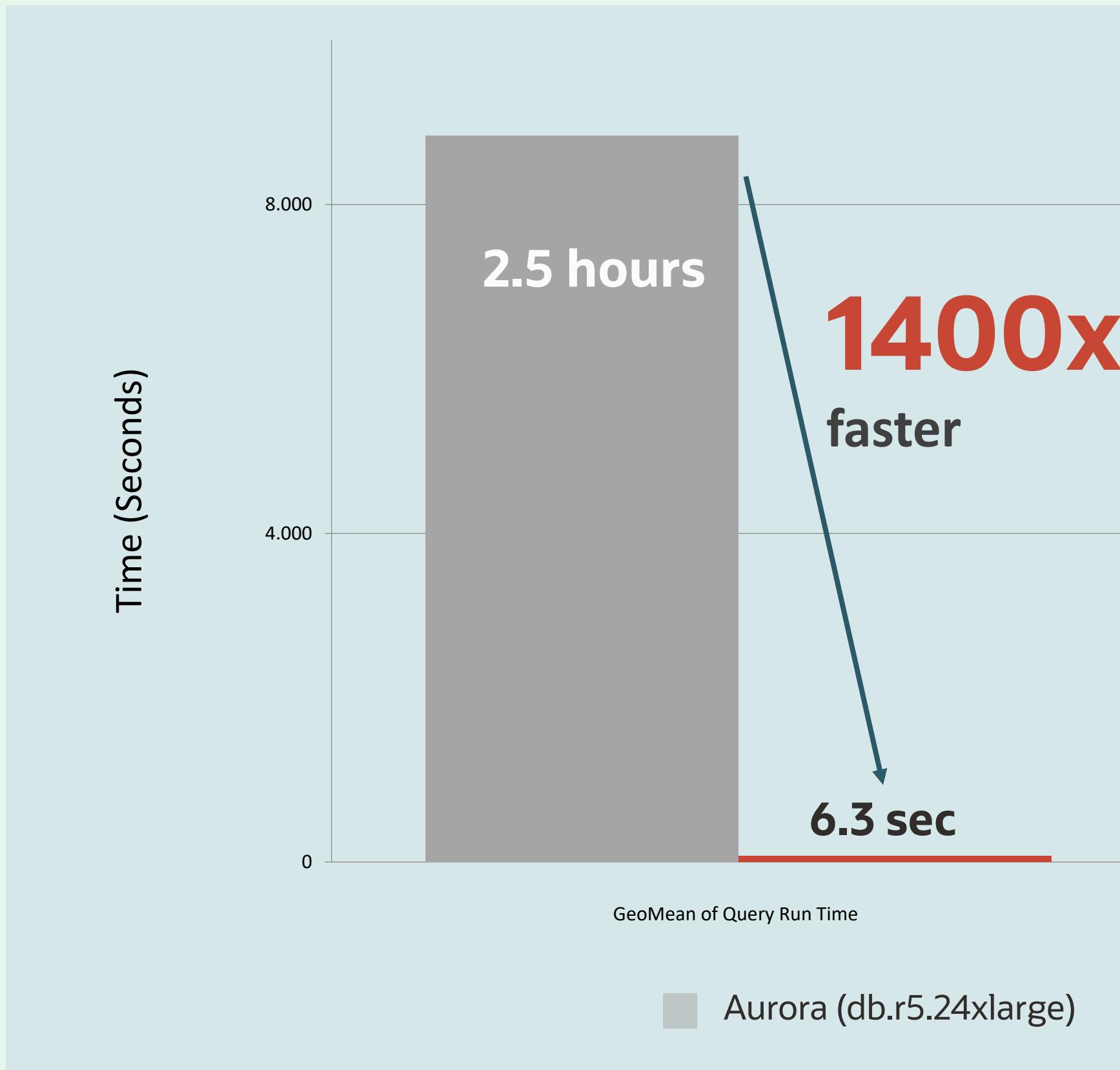


RDS-MySQL (db.r5.24xlarge)

MySQL HeatWave (10 E3 nodes)

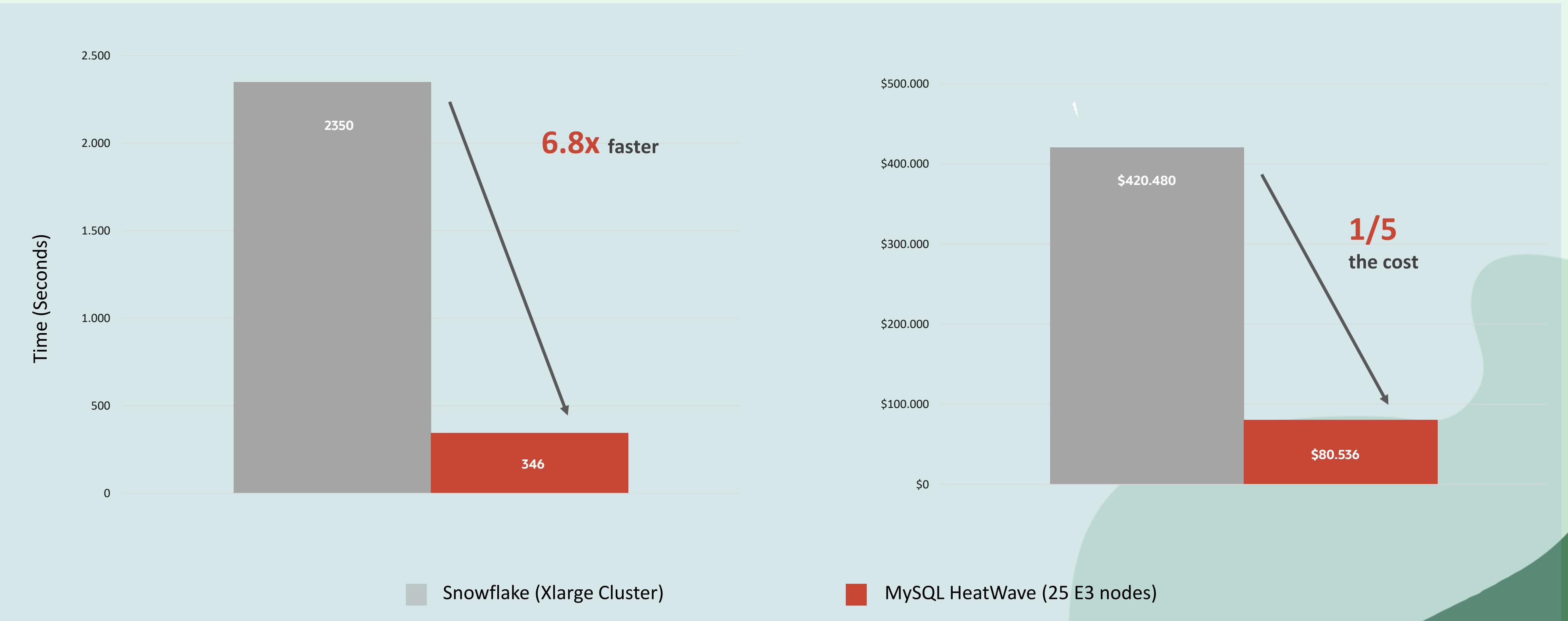
\*Benchmark queries are derived from TPC-H benchmark, but results are not comparable to published TPC-H benchmark results since they do not comply with TPC-H specification.

4 TB



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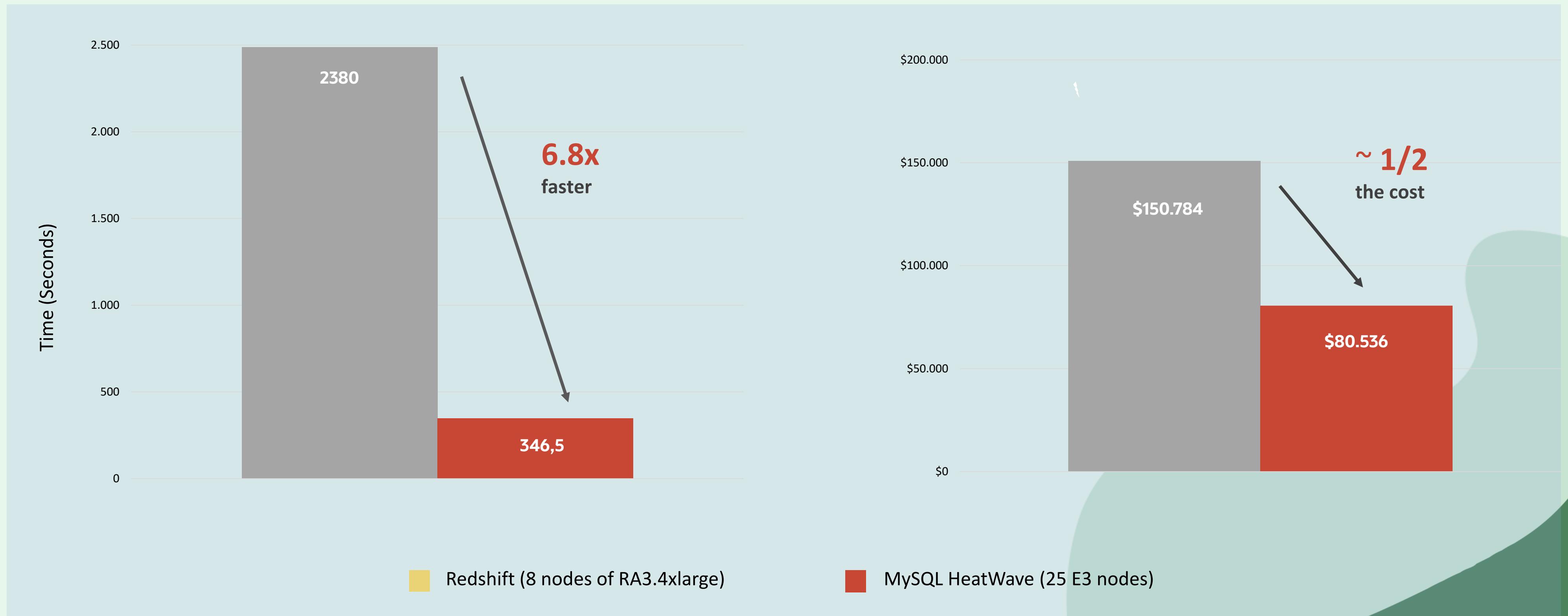
# 10 TB



\*Benchmark queries are derived from the TPC-H benchmark, but results are not comparable to published TPC-H benchmark results since they do not comply with the TPC-H specification

# MySQL HeatWave vs. Amazon Redshift AQUA: 13x better price performance

10 TB



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## Racing conclusion points:

- 10 points **MySQL**
- 8 points **HeatWave**
- 6 points **MySQLShell**

## Classification

Ranking will be done in accordance with the execution order and email evidence arrival

<https://apexapps.oracle.com/pls/apex/f?p=133:180:7323543960587::::wid:870>



Position	Points
First	
Second	
Third	
Fourth	
Fifth	