DBRE: MySQL Heatwave

MySQL Database Service & HeatWave to run Analytics

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Safe Harbor Statement

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About Our Live Session

MySQL and the IT Market

Create an Oracle Analytics Cloud instance

Launch MySQL DB-Systems

Host for MySQL Shell
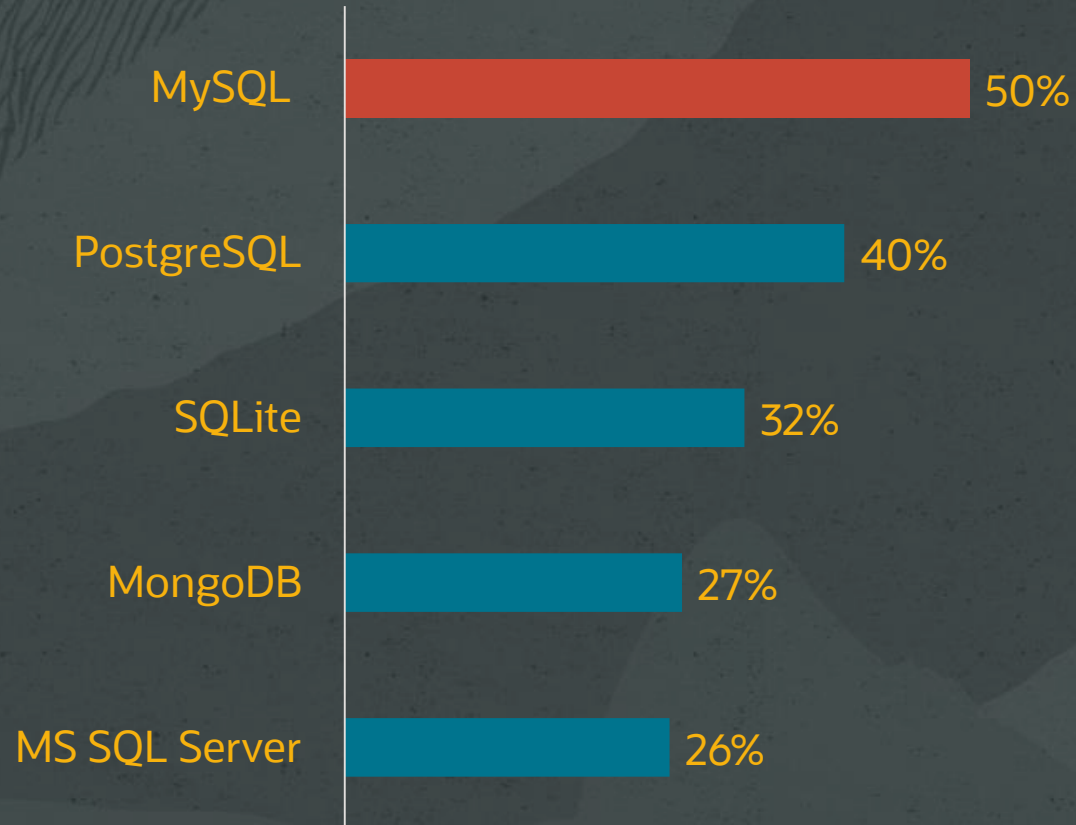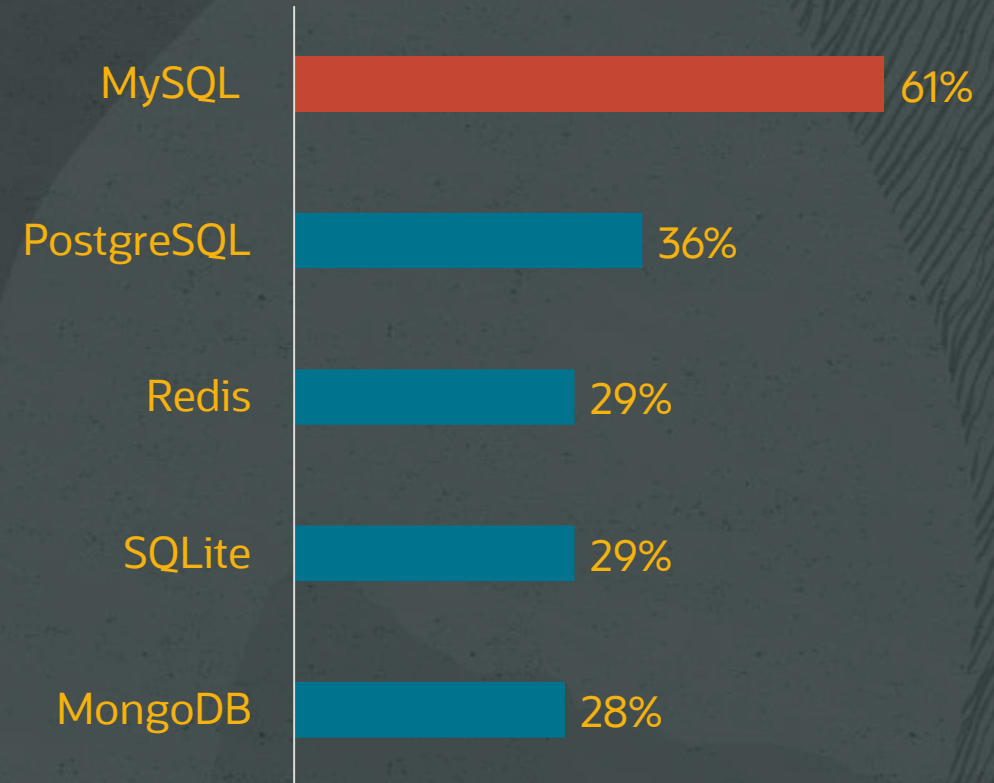
Enable Heatwave Cluster

My First OAC Dashboard

MySQL DB-Systems

MySQL is the most popular database for developers

Most popular databases

- MySQL — 50%
- PostgreSQL — 40%
- SQLite — 32%
- MongoDB — 27%
- MS SQL Server — 26%

Stackoverflow survey 2021

Which databases have you used in the last 12 months?

- MySQL — 61%
- PostgreSQL — 36%
- Redis — 29%
- SQLite — 29%
- MongoDB — 28%

Jetbrains survey 2021

Innovative enterprises across many industries run MySQL

Social	E-Commerce	Tech	Finance	Manufacturing
facebook	Booking.com	APPDYNAMICS part of Cisco	Bank of America	TESLA
twitter	NETFLIX	GitHub	J.P.Morgan	VW
Linked in	UBER	HubSpot	citi	TOYOTA
WeChat	airbnb	zendesk	Fidelity INVESTMENTS	CAT
Pinterest	Taobao.com	intuit mint	VISA	
	阿里巴巴 Alibaba.com	New Relic	CA	

MySQL Database Service costs less

Annual cost for a 100 OCPUs, 1TB Storage configuration

$250.000			
	$215.652	$212.974	
$200.000			
			$170.244
$150.000			
$100.000			
$65.833			
$50.000			
$0			
MySQL Database Service	Amazon RDS	Microsoft Azure	Google Cloud SQL
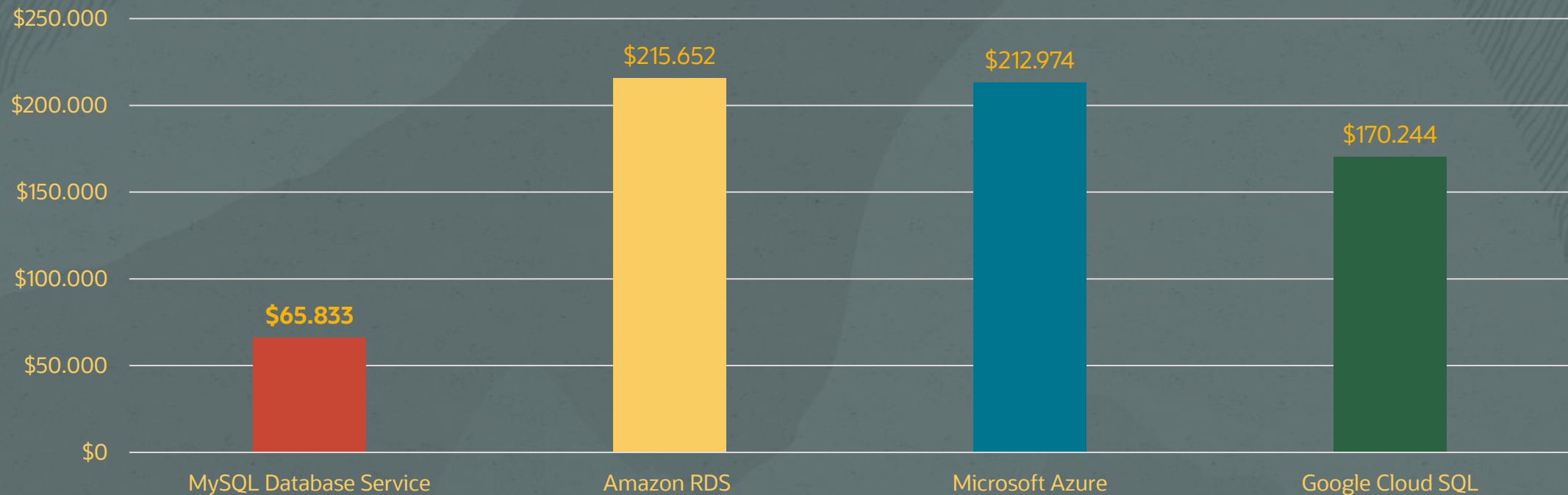
MySQL Database Service: Standard E3 AMD 16GB/Core, all regions have the same price.
Amazon RDS: Intel R5 16GB/Core, AWS US East.
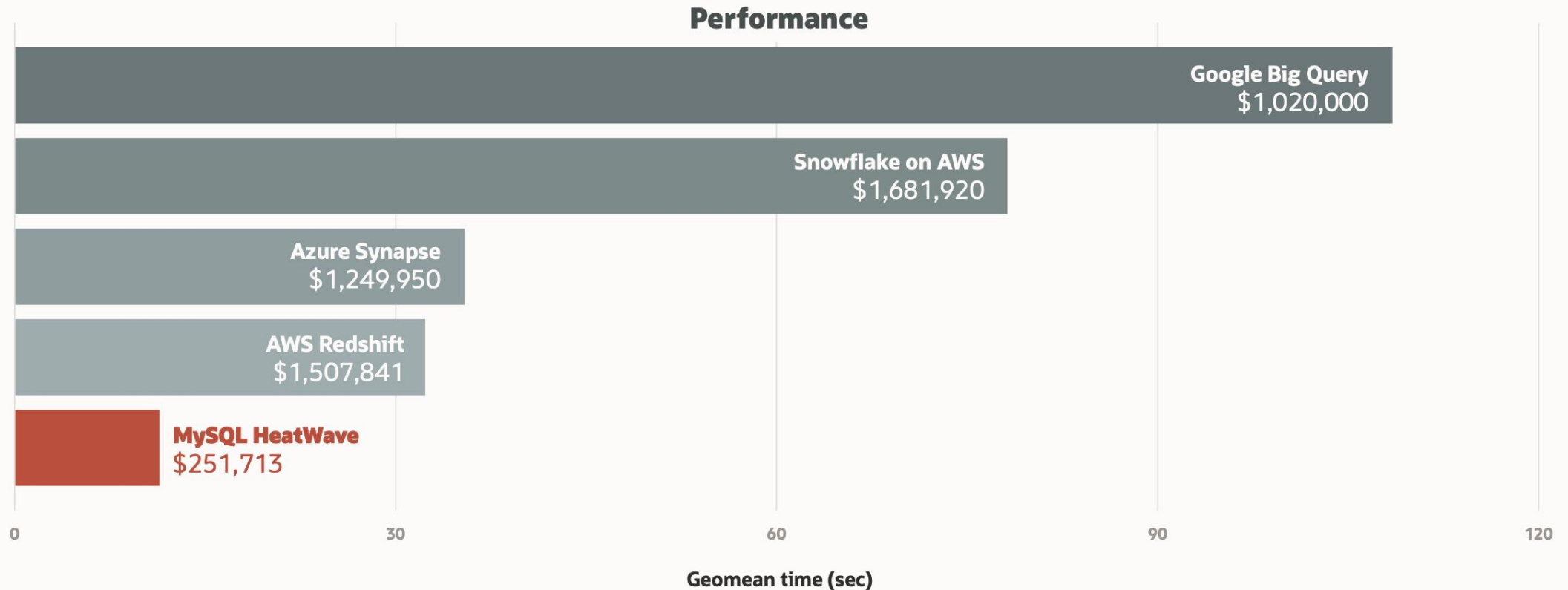Azure: Memory Optimized Intel 20GB/Core, MS Azure US-East.
Google: High Memory N1 Standard Intel 13GB/Core, GCP Northern Virginia.
Configuration: 100 OCPUs, 1 TB Storage.

Performance and price comparison

30TB TPCH, HeatWave is **faster and cheaper** than all the competitive database services

Performance

Google Big Query $1,020,000	
Snowflake on AWS $1,681,920	
Azure Synapse $1,249,950	
AWS Redshift $1,507,841	
MySQL HeatWave $251,713	

0   30   60   90   120
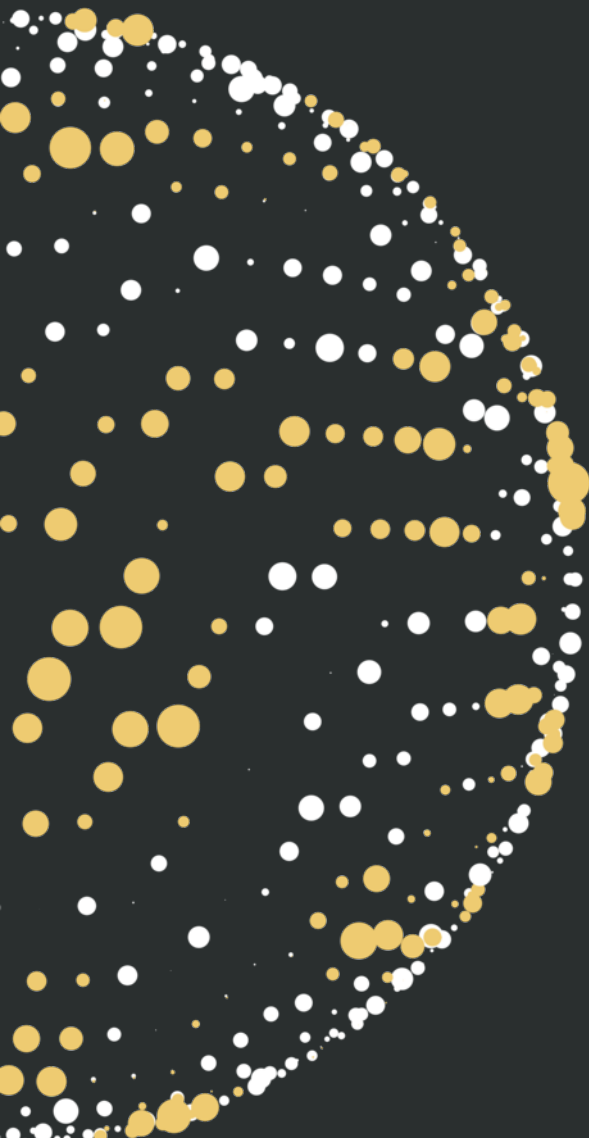
Geomean time (sec)

3rd party numbers derived from Gigaom report of Oct 2020
Using PAYG pricing for Snowflake. Other prices are based on 1 year pricing
*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.

Benchmarks & TCO Savings

+1000x Faster than RDS

+1000x Faster than Aurora

6.5x Faster than Redshift AQUA

7x Faster than Snowflake

MySQL Database Service: High Availability

Fault-tolerant system with automatic failover and zero data loss

- Single Click High Availability
- Automatic Failover
- Increased Uptime
- Zero Data Loss

- Recover Time Objective (RTO): Minutes
- Recovery Point Objective (RPO): Zero

Create MySQL DB System

Standalone	High Availability
Single-instance MySQL DB System	Run 3-node MySQL DB System providing automatic failover and zero data loss ✓

Test Drive MySQL Database Service For Free Today

Get **$300** in **credits** and try

MySQL Database Service

free for 30 days.

https://www.oracle.com/mysql/free/

Oracle Analytics Cloud

What is Oracle Analytics Cloud?

Oracle Analytics Cloud is **a single and complete platform that empowers your entire organization to ask any question of any data—across any environment, on any device**.

Oracle Analytics Cloud is a scalable and secure Oracle Cloud service that provides a full set of capabilities to explore and perform collaborative analytics for you, your workgroup, and your enterprise.

It fits into your ecosystem, enabling analysis in the cloud while also providing easy access to any data source.

PRACTICE

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Feedback/Comments/Ask for help

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Thank you