

In collaboration with: dbtrail Life360 coroot :~# LABYRINTH LABS

Welcome



Peter Zaitsev,
Founder at Percona
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In collaboration with: dbtrail Life360 coroot :~# LABYRINTH LABS



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coroot :~#

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Bring Percona University to Your City!

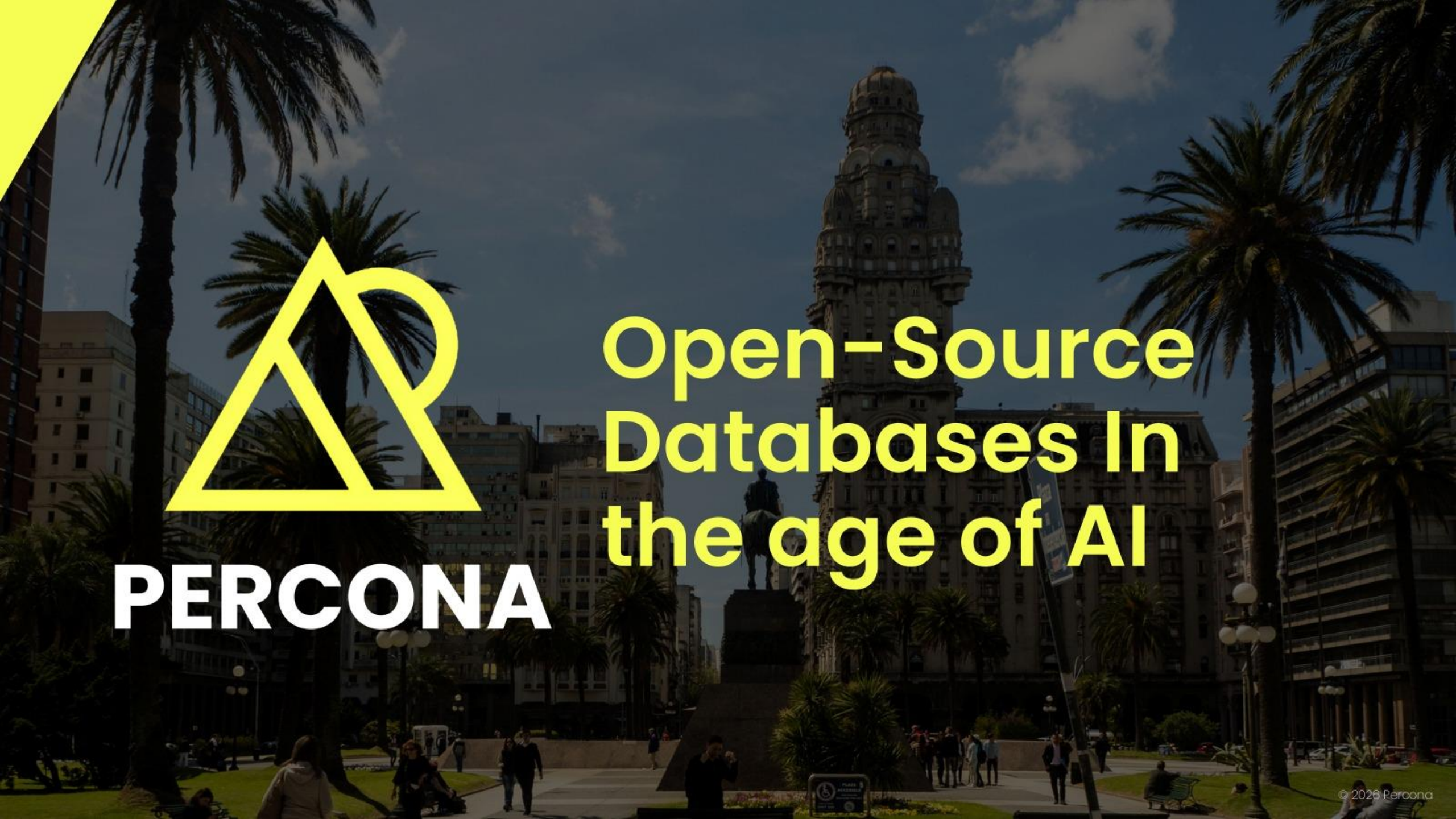


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Current openings include:

- SVP, Global Services
- Technical Writer(PostgreSQL)
- Practice Lead: AWS
- ...and more!



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AI Moves Fast!

The database ecosystem is traditionally conservative and slow-moving.

AI is moving very fast.

The “end state” is still unclear, but it is clear it will be radically different from the pre-AI world.





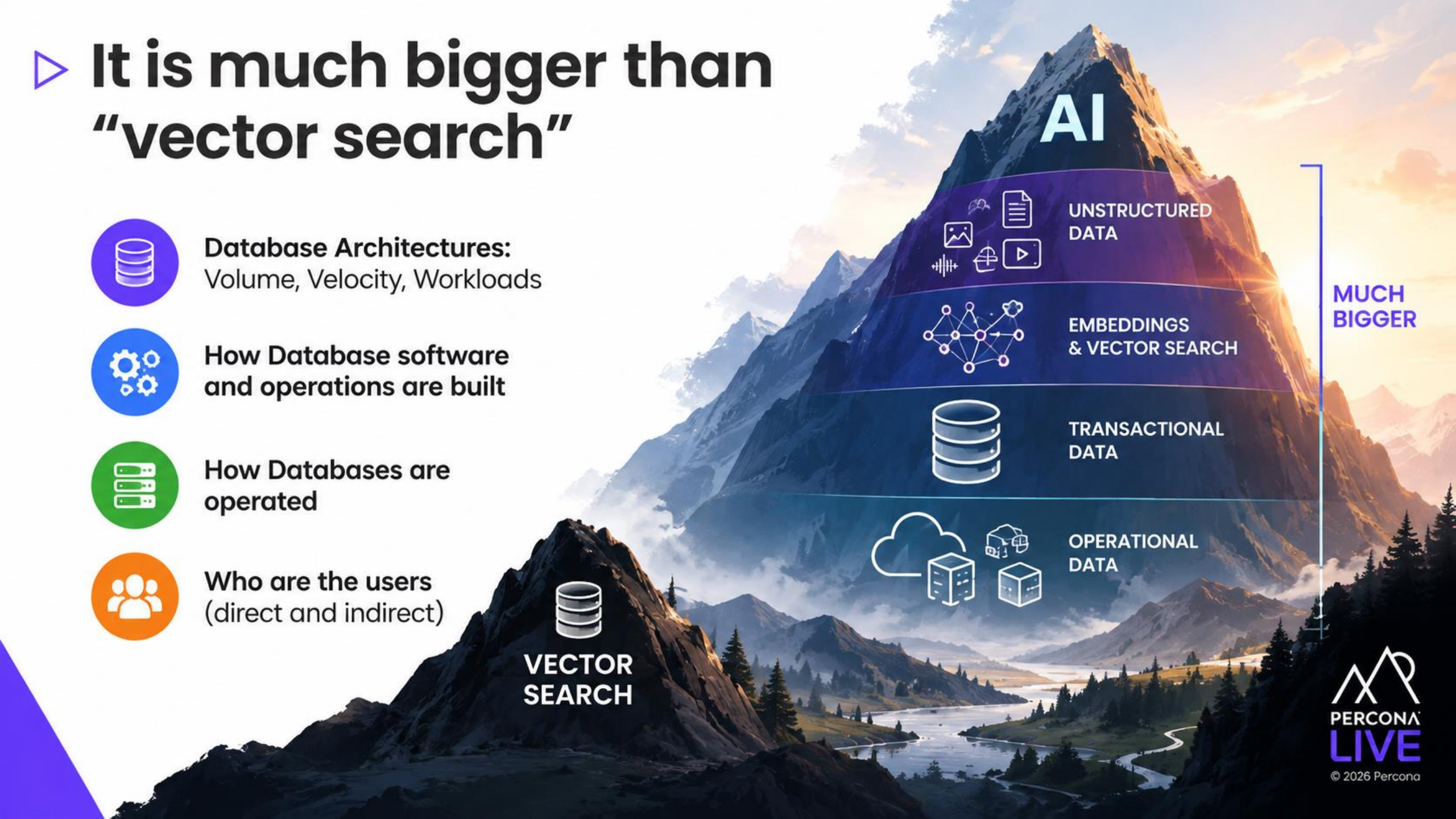
It is much bigger than "vector search"

Database Architectures:
Volume, Velocity, Workloads

How Database software and operations are built

How Databases are operated

Who are the users
(direct and indirect)



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AI and Agentic Trends



Small and bursty

Serverless



Large Data and Load

Sharded/ Distributed



Short Lived

Ephemeral



Try and Try Again

Branching



RAG, Vector Search, Embeddings, Semantic Data

More data.
More possibilities.
A different kind of scale.

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Core Database Engineering

Real examples. Real progress. A wave of new ideas.

Different Teams have different pace of AI uptake



Different teams.
Different pace.
All making progress.

PgRust

Team of 2, 3 months, 1.8m lines of Rust, 100% passing of PostgreSQL Regression Suite



A remarkable achievement by a small team.

VillageSQL

AI conversion of PostgreSQL extensions with MySQL



Bringing the PostgreSQL ecosystem to MySQL with AI.

TidesDB, DuckDB

Extensions adapted for MySQL



Popular extensions adapted for MySQL with AI.

Explosion of new database ideas



I see several new database prototypes every month.



A new generation of database innovation is already here.

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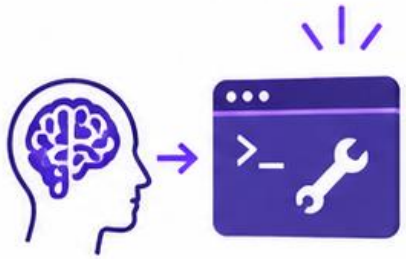
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Database Tooling

More people. More ideas. More useful tools.



Development becomes more accessible



Those with subject matter expertise can turn their ideas into reality



Narrow use cases are worth solving



Easier to maintain existing tooling



Smaller ideas.
Bigger impact.

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Examples

Real projects. Real impact. Powered by AI.

ProxySQL

PostgreSQL Support and taking on maintenance of Orchestrator and DbDeployer

ProxySQL

Orchestrator

Topology management for MySQL

DbDeployer

Fast, reproducible database environments

Percona non-Engineering Teams

MongoRewind, BinLogSum, MClusterAdmin, Hackorum, DBCanvas and more

- MongoRewind
- BinLogSum
- MClusterAdmin
- Hackorum
- DBCanvas
- and more

Not just engineering — more teams are building with AI.

Daniel Guzman

DBTrail

An example of a new, practical database tool built with AI.



Different people. Different tools.
A more innovative database ecosystem.

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The Challenge

More software. Easier to build. Harder to keep high quality.

Further Explosion of OSS Software



AI is accelerating the creation of new open source software across the database ecosystem.

AI makes it easy to make software "pretty"



AI lowers the barrier to create polished, user-friendly software and interfaces.

Curation becomes increasingly important



- Evaluate
- Test
- Maintain
- Recommend

With so many options, finding, validating, and maintaining the right tools is critical.



Great software is everywhere.
Your judgment matters more than ever.

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Agent Persona

More than a faster human. A new kind of user.

- Not just a faster human
- 24/7
- Parallel and Scalable
- Persistent
- Retry-happy
- Can process vast amounts of data
- Different failure modes
- Fearless and pain free



Different users.
Bigger possibilities.

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You can't always "try it again"

In databases, many things need to work right the first time.

Production Reliability

In database production many things need to work right from the first try.

Understanding Agent Thinking

We need to understand what agents "think" and how they make decisions.

Auditing

Actions need to be traceable and auditable.

Security and Governance

We must maintain strong security, controls, and compliance.

Clear Boundaries

What can an agent do? Where is human decision needed? What are the off limits?



Same data. Higher standards.
A human-in-the-loop where it matters.

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Beyond Observability

From data to understanding to action.



Telemetry

Collect rich, high-fidelity data across the stack.



Dashboards (largely human artifact)

Great for humans. Use AI to go beyond static dashboards.



MCP, Skills, Integrations

Connect to tools, data, and actions across your environment.



Root Cause Analyses

Find the real cause faster. Correlate across systems and time.



Remediation and Verification

Take action and verify the fix. Close the loop.



More than metrics.
Real insight. Real impact.

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Peter Zaitsev • You

Entrepreneur | Driving Success with MySQL, MariaDB, MongoDB & PostgreSQ...

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Would you trust AI to fully "Drive" your database for you today ?

You can see how people vote. Learn more

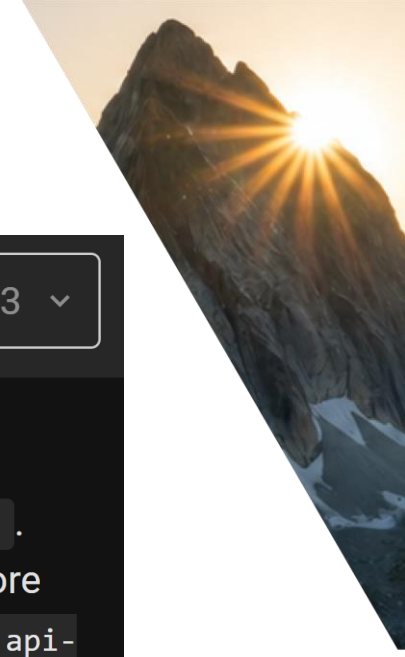
Yes	5%
No	95%

376 votes • Poll closed

24

14 comments • 6 reposts

Coroot – state of art AI RCA



coroot Enterprise Edition :~#

Anomalies > api-gateway

Sep 08, 08:49 to Sep 08, 09:23

Go to... ctrl+k

Applications
Incidents
Alerts 3
Service Map

Project
rca-lab

Settings
Anonymous
Help
Collapse

Root Cause

A database schema change removed the `orders.orders` composite index `(user_id, created_at)`. This made the `orders` lookup by `user_id` with `ORDER BY created_at DESC LIMIT ...` scan far more rows, saturating `mysql` CPU and slowing `order-service` and `payment-service`, which increased `api-gateway` latency and caused some failed upstream requests.

Show more details

Immediate Fixes

Rollback the schema change by restoring the removed composite index on `orders.orders`:

```
ALTER TABLE orders.orders
  ADD INDEX idx_orders_user_created (user_id, created_at);
```

If the index was removed by a migration, roll back that migration so it is not re-applied. After restoring the index, verify that the expensive `orders by user_id + created_at` query drops in execution time and that MySQL CPU delay/throttling returns to normal.

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Open Everest

OpenEverest for the AI era

AI applications add new workloads. Database operations must keep pace.

Faster experimentation

Automate database provisioning and management.

Capacity for changing workloads

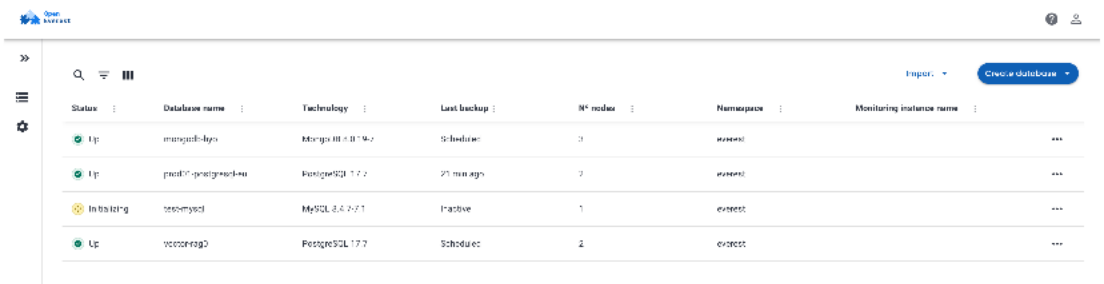
Adjust CPU, memory and storage as needs change.

Control over your data

Run on your Kubernetes, in the cloud or on premises.

Open source. Apache 2.0. No licensing fees.

PostgreSQL, MySQL and MongoDB



Explore OpenEverest

Scan to learn more

openeverest.io

Proprietary Hyperscaler Clouds

vs

Cloud Native Ecosystem

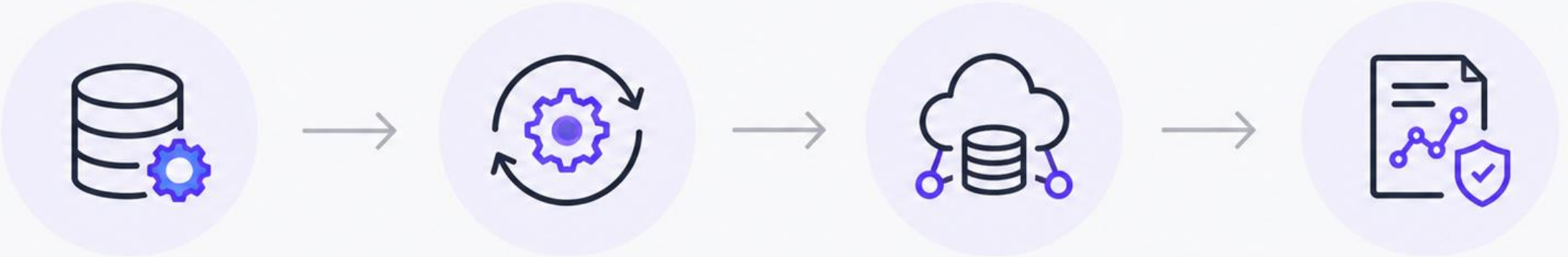


CONTROL & LOCK-IN

OPENNESS & FREEDOM

“DBA” Evolution





Database Administrator

Operate databases

Database Reliability Engineer

Automate operations

Database Platform Engineer

Build platforms

Database Platform Architect

Design policy & systems

Future: AI-assisted, policy-driven operations

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Open-Source Business Models

A new era of opportunity.

Biggest disruption since the Cloud

AI is changing how open-source software is built, delivered, and monetized.

"Service" business models disrupted by AI

AI enables new ways to deliver and consume services, lowering barriers and changing the economics.

Opportunity for higher-level services

More value in integrations, workflows, expertise, and outcomes that help customers succeed with AI transformation.

"Service as Software" models

Turning human expertise into automated intelligence that augments and scales knowledge.



Open source. Real value. A bigger future.

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Summary

A bigger opportunity for databases.

AI is accelerating everything

FASTER CHANGE.
BIGGER IMPACT.

Massive opportunity

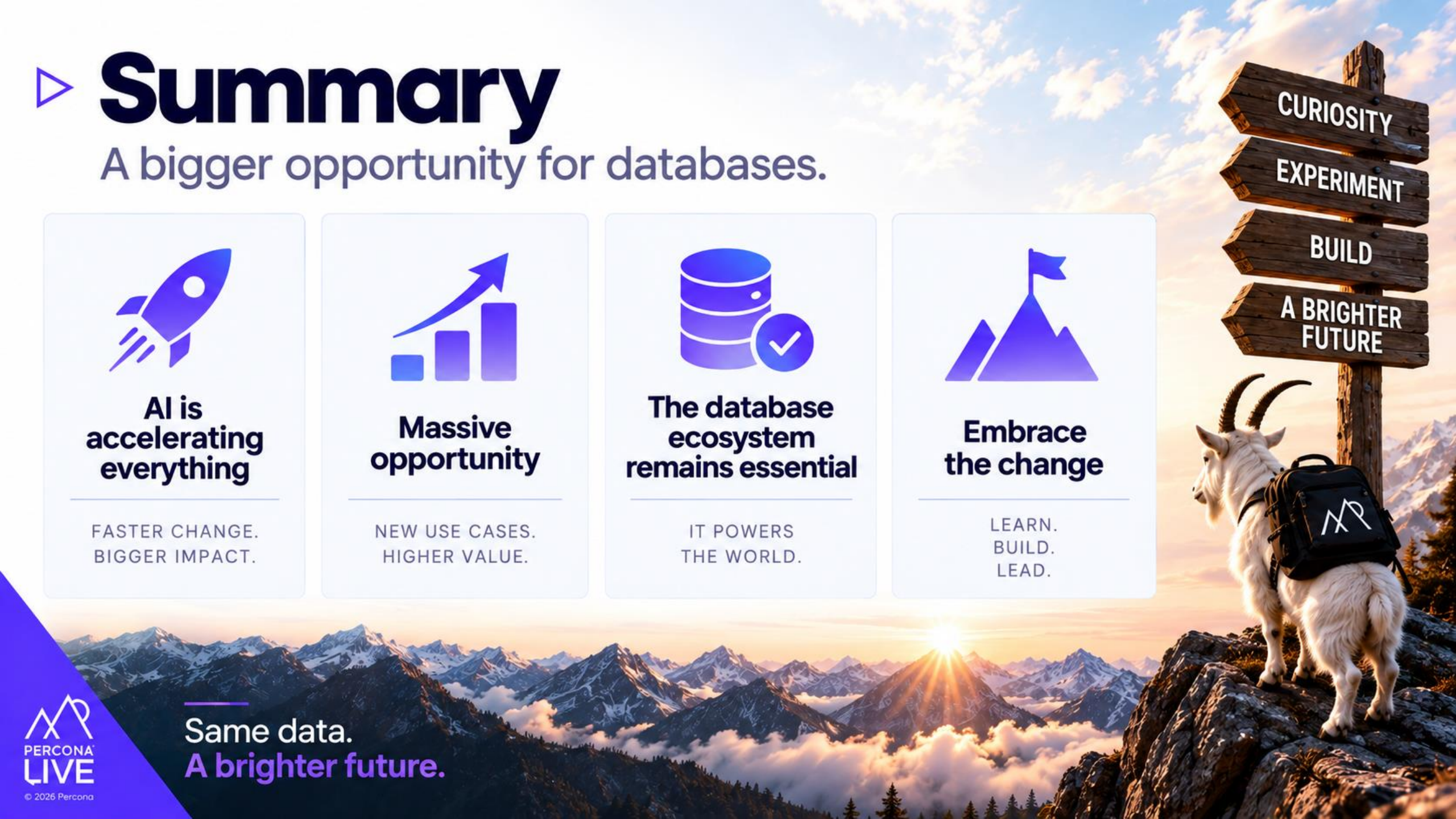
NEW USE CASES.
HIGHER VALUE.

The database ecosystem remains essential

IT POWERS
THE WORLD.

Embrace the change

LEARN.
BUILD.
LEAD.



Same data.
A brighter future.

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PERCONA LIVE 2026 Amsterdam

Slides & recordings

COMING SOON

Big ideas. Real production lessons. Ready to replay.



Slack

MySQL + Vitess at 1B+ daily messages

Eduardo Ortega Urrego



Booking.com

Right-sizing MySQL with production data

Aditya Seth



Neo4j

Graph connections for smarter AI agents

Nyah Macklin



AWS

PostgreSQL's role in the AI world

Narendra Tawar

Explore the talks and stay tuned

perconalive.com/2026-amsterdam



Percona Turns 20 in 2026!

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- **https://percona20.com**

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Celebrating 20 years of Percona

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20 Years of Open Source Database Awesomeness

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The anniversary book



SAIL THE CATAMARANS
IN GREECE



CLIMB THE QUEEN OF
DOLOMITES, ITALY (3,343 M)

GEEKS GO PEAKS

ON ANOTHER NOTE...

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MOUNTAINS



ARRANGE ADVENTUROUS
TEAM BUILDING

GEEKS GO PEAKS

Mexican volcanoes 2026

A mountain adventure with fellow geeks.

4–13 December 2026

6-day option: 4–9 December

La Malinche + Iztaccíhuatl
Add Pico de Orizaba for the full 10 days.

Up to 5,636 m. Just 8 participants.

Guided climbs. Strenuous adventure. Book by 1 November.

geeksgopeaks.com/trips/the-greatest-mexican-volcanoes-2026



Scan for details



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