**EDB POSTGRES AI**

Enhancing Your Open Source Data Foundation with PostgreSQL

Six Reasons Why MySQL Users Need Postgres Today

The challenge: When open source falls into the single-vendor trap

The core promise of genuine open source is strategic freedom and flexibility. However, many foundational technologies operate under the shadow of corporate ownership, posing a critical risk of shifting roadmaps and proprietary mandates. When deployment options narrow, forced support contracts arise, development slows, and businesses are exposed to hidden costs and vendor lock-in that compromise the intended open-source strategy. This risk is illustrated by the deceleration in unique code contributions in technologies such as MySQL, as shown in the chart below, which highlights the potential effect of a vendor-controlled open source platform. The enterprise needs a truly independent alternative.
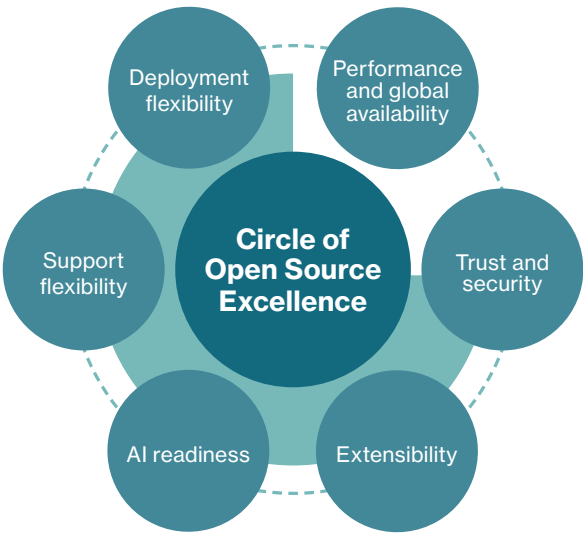
Total Number of Commits
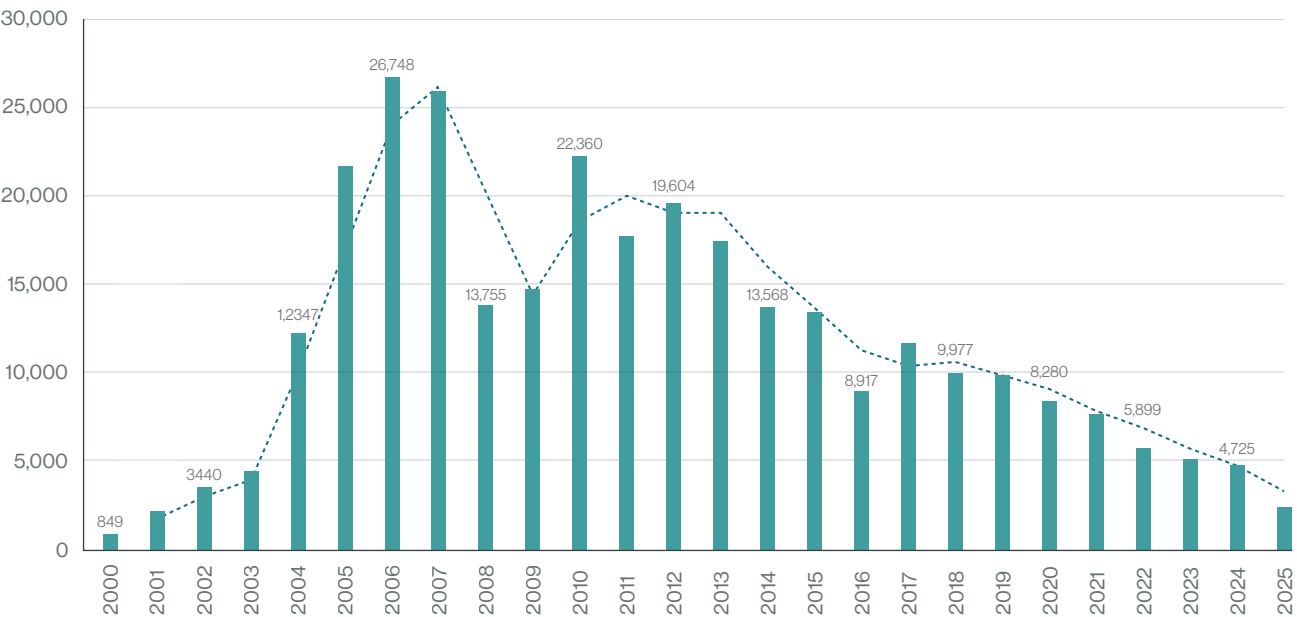
PostgreSQL, instead, is governed by a community-led core team under a permissive license. This structure provides the ultimate safeguard for users, guaranteeing the **strategic freedom and independence** fundamental to open source excellence.

Embracing Open Source Excellence for Enterprises: The Six Principles

Open-source excellence for enterprises is framed around six non-negotiable principles: deployment flexibility, performance and global availability, trust and security, extensibility, AI readiness, and Support flexibility.

PostgreSQL is the ideal foundational database for this framework, as its design philosophy inherently upholds all six, whereas other technologies, such as MySQL, introduce unnecessary business risk and complexity.

Principle	MySQL	PostgreSQL
Deployment flexibility	MySQL's managing entity promotes support and proprietary offerings within a single cloud ecosystem. This creates vendor lock-in risk, forcing your business into deployment models and cost structures that compromise your broader hybrid or multi-cloud strategy.	PostgreSQL maintains a universal, vendor-neutral standard. Its community governance has established it as the go-to for both cloud and on-prem deployments, giving businesses the freedom to distribute workloads strategically to optimize for the lowest cost at the highest performance in any region.
Performance and global availability	MySQL's simpler architecture often leads to unpredictable performance during traffic spikes, jeopardizing service-level agreements. Its replication methods also introduce greater risk when maintaining continuous uptime.	PostgreSQL is designed for enterprise-level resilience and predictable performance. Its advanced concurrency architecture ensures that high-volume read operations never block critical write operations, guaranteeing high, consistent performance even during peak spikes. For global availability, its efficient streaming replication facilitates rapid disaster recovery, ensuring the speed and resilience required to protect revenue.
Trust and security	MySQL introduces unnecessary risk; its transactional integrity is often weaker under stress, and its cloud-first commercial features create long-term legal and strategic uncertainty.	PostgreSQL ensures data integrity through its rigorous adherence to ACID compliance. This serves as a critical safety net, ensuring that mission-critical operations succeed, thereby protecting data integrity and simplifying compliance. Security features allow users to apply fine-grained access policies down to the individual record level, which is essential for meeting modern regulatory mandates.
Extensibility	MySQL, being a purely relational database, forces data fragmentation and continuous adoption of new databases, increasing operational overhead and complexity. While it has some basic JSON, its functionality is limited.	PostgreSQL excels as a versatile, multipurpose data store. Its core architecture is deliberately designed for extensibility, operating as a central hub that seamlessly integrates specialized data capabilities. With extensions that support relational, document, time-series, and vector data, your teams can consolidate workflows and eliminate the need to deploy and manage separate, specialized databases.
AI readiness	MySQL's structural limitation forces the creation of separate data silos for any AI initiative, increasing latency and complexity. Using MySQL for AI requires adoption of proprietary enterprise forks.	PostgreSQL is uniquely positioned for AI. Its inherent extensibility allows it to integrate advanced data capabilities directly, enabling it to function as a vector database through specialized extensions. This means the complex data needed for large language models (LLMs) can be stored and managed alongside your mission-critical data. This capability eliminates the need to export data to external systems, speeding up innovation cycles and lowering the TCO of every AI project.
Support flexibility	MySQL creates a direct dependency risk because its core roadmap is heavily influenced by its maintainer, centralizing enterprise support and limiting your choice of vendors, making your business vulnerable to single-source pricing hikes and dependency lock-in.	PostgreSQL's community ensures a reliable, transparent release cycle. This unique structure allows organizations to procure support services from a wide, competitive ecosystem of specialized third-party vendors. This competitive market guarantees high-quality service, competitive pricing, and flexibility, minimizing support risk.

EDB Postgres® AI: Enterprise-hardened excellence

The choice is clear: PostgreSQL provides the only secure, extensible, and flexible data foundation required by these six principles. To secure a database future free from vendor shifts, **EnterpriseDB (EDB)** offers **EDB Postgres AI (EDB PG AI)**, the first open, enterprise-grade sovereign data and AI platform, providing a secure, compliant, and scalable on-premises and across-cloud solution. Built on Postgres, EDB PG AI unifies transactional, analytical, and AI workloads, enabling organizations to operationalize their data and LLMs while maintaining control over sovereign environments.

1. **Deployment flexibility:** Flexibly manage EDB PG AI databases across multi-cloud and hybrid environments, including VM, bare metal, and Kubernetes deployments, allowing you to run your critical workloads with sovereignty **while avoiding conflicting deployment and vendor lock-in**.

2. **Performance and global availability:** EDB Postgres AI extends performance with up to **4x faster performance than MySQL** and up to **99.999% global availability** across geo-distributed, active/active deployments, supporting applications that can never go down.

3. **Trusted, secure open source:** EDB PG AI extends the Postgres ACID standards with comprehensive security features such as **Transparent Data Encryption (TDE)** and data redaction, ensuring auditable transparency and helping you meet evolving compliance regulations including SOC 2 and GDPR.

4. **Extensibility:** With EDB PG AI, you can build modern applications faster, leveraging a wide variety of Postgres-supported data types—relational, vector, JSON, time-series, and more—from a single data store. This includes unlocking **Oracle compatibility mode** to accelerate your end-to-end modernization.

5. **AI readiness:** EDB Postgres AI closes the gap by letting Postgres act as a single, powerful vector database. This means all your AI data lives securely with your regular database, speeding up complex searches. EDB PG AI's built-in AI application builder and vector capabilities make it **3x faster to design and deliver GenAI applications**.

6. **Global support:** EDB's award-winning global support is built on a foundation of unmatched expertise with rapid response to critical issues, security patches, and proactive advice. Because EDB's focus is 100% Postgres, your roadmap is protected from the priority shifts inherent to multi-product support vendors.

EDB PG AI provides supported open source for your future, guaranteed — 24/7/365 globally. Meaning that it is not merely a database alternative; EDB PG AI offers a strategic path to open source excellence within a secure, resilient, and fast-moving environment, empowering your business to advance by:

- **Accelerating migration:** Kickstart a seamless migration with proven tools and expert-led methodology, squashing the stress and uncertainty of migrating your business-critical applications.

- **Eliminating business risk:** Directly address the crippling uncertainty of vendor lock-in, chaotic license audits, and critical data integrity concerns. EDB PG AI provides a stable, secure, regulatory-compliant, sovereign, open source environment that will grow with your business.

- **Future-proofing your platform:** Deliver a clear, supported path for your open source architecture to evolve, ensuring immediate alignment with agentic and GenAI roadmaps and hybrid flexibility, thereby future-proofing your organization and encouraging innovation.

Don't delay. Make the strategic choice to future-proof your data. Talk to an EDB expert about your path to Postgres.