

TimescaleDB: SQL made scalable for time-series data

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I Background

Time-series data is cropping up in more and more places: monitoring and DevOps, sensor data and IoT, financial data, logistics data, app usage data, and more. Often this data is high in volume and complex in nature (e.g., multiple measurements and labels associated with a single time). This means that storing time-series data demands both scale and efficient complex queries. Yet achieving both of these properties has remained elusive. Users have typically been faced with the trade-off between the horizontal scalability of NoSQL, vs. the query power of relational databases.

TimescaleDB is a new open-source database designed to make SQL scalable for time-series data. In a world typically split between RDBMS and NoSQL databases, TimescaleDB provides a third option that combines the best of both: a clustered scale-out architecture and rich support for complex queries. It scales out horizontally to support **high ingest rates** by transparently performing automatic space-time partitioning and query optimizations, yet allows users to interact with their data as if it were in a single, continuous table. It supports **fast queries** by performing efficient indexing and optimizations for selecting and aggregating non-primary keys. Data is available for querying in **real-time**, avoiding the need to delay writes in order to bulk load data. In addition, because TimescaleDB is engineered up from Postgres as an extension, it provides a **full SQL interface** (including support for secondary indexes and joins), while inheriting Postgres's reliability, mature ecosystem, and operational ease of use.

As time becomes a more critical dimension along which data is measured, TimescaleDB enables developers and organizations to harness more of its power: analyzing the past, understanding the present, and predicting the future. Unifying time-series data and relational data at the query level removes data silos, and makes demos and prototypes easier to get off the ground. The combination of scalability and a full SQL interface empowers a broad variety of people across an organization (e.g., developers, product managers, business analysts, etc.) to directly ask questions of the data. In other words, by supporting a query language already in wide use, TimescaleDB ensures that your questions are limited by your imagination, not the database.

Key Challenges. A central goal for a time-series database is to support the high write rates typical of many of these applications, which span across industries. For example, in Internet of Things (IoT) settings—whether industrial, agricultural, urban, or consumer—high write rates result from large numbers of devices coupled with modest to high write rates per device. In logistics settings, both planning data and actuals comprise time series that can be associated with each tracked object. Monitoring applications, such as in DevOps, may track many metrics per system component. Many forms of financial applications, such as those based on tick data, also rely on time-series data. All require a database that can scale to a high ingest rate.

Further, these applications often want to query their data in complex and arbitrary (yet performant) ways, beyond simply fetching or aggregating a single metric across a particular time period. Such query patterns may involve rich predicates (e.g., complex conjunctions in a WHERE clause), aggregations, statistical functions, windowed operations, JOINS against relational data, and so forth. Rather than create a new query language—which would require both new training by developers and analysts, as well as new customer interfaces or connectors to integrate with other systems—a time-series database should ideally support standard SQL and expose the abstraction of a single global table, even though the underlying storage may be partitioned or sharded between servers and/or disks. Such a design allows one to interact with data as if it were within a standard table, hiding the complexity of any data partitioning and query optimization from the user.

How do we scale SQL? At first glance, this claim of a scale-out, efficient SQL database may seem incredulous; after all, didn't the entire NoSQL movement emerge due to the limitations of SQL databases for precisely these properties? Yet this movement came in response to the use of SQL databases for traditional transactional (OLTP) workloads. In OLTP, writes are typically transactional updates of multiple rows of existing data (e.g., debiting money from one bank account and crediting another in an atomic fashion). Time-series workloads are different in two key ways.

(1) *Time-series data is largely immutable.* New data continually arrives, typically corresponding to the latest

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