

Hello!



I am Esmaeil Kazemi

I'm interested in learning how are you?

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NOSQL

VS

SQL



Redis

Redis stands for Remote Dictionary Server





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Map Redis



1- Features

2- application

3- data type

4- Message
Queue

5- Transactions

6- Pipelining

7- Lua Scripts

8- Persistence

9- Benchmarks

10- configuration

11- ACLs

12- Redis Cluster

13- Redis vs Memcached

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15- Redis vs RDBMS



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redis vs RDBMS

Redis Vs RDBMS

معیار ها	Redis	RDBMS
Data storage	Stores data in memory, with optional disk persistence	Stores data on disk
Data model	Supports a key-value data model and various data structures such as strings, hashes, sets, lists, and sorted sets	Supports a relational data model with tables, columns, and rows
ACID compliance	Does not guarantee ACID compliance, but offers some ACID-like guarantees	Generally supports full ACID compliance
Concurrency control	Uses a single-threaded architecture, which can limit its concurrency capabilities	Supports multi-threading, allowing for greater concurrency



Redis Vs RDBMS

معیارها	Redis	RDBMS
Performance	Offers high performance due to its in-memory storage and efficient data structures, capable of processing hundreds of thousands of requests per second	Performance may be impacted by disk I/O and relational data modeling
Scalability	Can scale horizontally through sharding or replication	Can scale vertically through hardware upgrades or partitioning
Use cases	Ideal for real-time applications and scenarios where high throughput is required	Suitable for applications with complex data structures and relationships, as well as batch processing and reporting
Query language	Offers a limited set of commands and does not support SQL	Typically supports SQL or a similar query language
Cost	Open-source version is available for free, with paid options for enterprise-level features	Often requires paid licenses and ongoing maintenance costs

ماژول های Redis



1. **RedisJSON** is a module for Redis that allows developers to store, manipulate, and query JSON data.
2. **RedisBloom** is a module for Redis that provides probabilistic data structures such as Bloom filters and HyperLogLog.
3. **RedisTimeSeries** is a module for Redis that provides time-series data functionality. It allows developers to store, manipulate, and query time-series data.
4. **RedisGraphQL** is a module for Redis that provides GraphQL functionality. It allows developers to query Redis data using the GraphQL query language.
5. **RedisGraphAI** is a module for Redis that provides graph algorithms and analytics functionality.
6. **RedisTimeFlow** is a module for RedisTimeSeries that provides anomaly detection and forecasting functionality.
7. **RedisRaft** is a Redis module that provides distributed consensus and replication functionality.
8. **RedisJSONAI** is a module for Redis that provides machine learning functionality for JSON data.
9. **RedisCell** is a Redis module that provides cell-based rate-limiting functionality for APIs and web applications.

Thanks!



Any questions?

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