Editorial information provided by DB-Engines

Name	MongoDB X	Prometheus X	Redis X
Description	One of the most popular document stores available both as a fully managed cloud service and for deployment on self-managed infrastructure	Open-source TimeSeries DBMS and monitoring system	In-memory data structure store, used as database, cache and message broker ℹ
Primary database model	Document store	Time Series DBMS	Key-value store ℹ
Secondary database models	Search engine ℹ		Document store ℹ Graph DBMS ℹ Search engine ℹ Time Series DBMS ℹ

DB-Engines Ranking ℹ
Trend Chart
	Score 437.08
	Rank #5 Overall
	        #1 Document stores
		Score 4.59
		Rank #72 Overall
		        #3 Time Series DBMS
			Score 145.64
			Rank #8 Overall
			        #1 Key-value stores

Website	www.mongodb.com	prometheus.io	redis.io
Technical documentation	docs.mongodb.com/manual	prometheus.io/docs	redis.io/documentation
Developer	MongoDB, Inc		Salvatore Sanfilippo ℹ
Initial release	2009	2015	2009
Current release	4.2.8, June 2020		6.0.5, June 2020
License ℹ	Open Source ℹ	Open Source ℹ	Open Source ℹ
Cloud-based only ℹ	no ℹ	no	no
DBaaS offerings (sponsored links) ℹ	MongoDB Atlas: Deploy a fully managed cloud database on-demand and ready for use in minutes. Available on AWS, Azure, and GCP.		
Implementation language	C++	Go	C
Server operating systems	Linux OS X Solaris Windows	Linux Windows	BSD Linux OS X Windows ℹ
Data scheme	schema-free ℹ	yes	schema-free
Typing ℹ	yes ℹ	Numeric data only	partial ℹ
XML support ℹ		no ℹ	no
Secondary indexes	yes	no	yes ℹ
SQL ℹ	Read-only SQL queries via the MongoDB Connector for BI	no	no
APIs and other access methods	proprietary protocol using JSON	RESTful HTTP/JSON API	proprietary protocol ℹ
Supported programming languages	Actionscript ℹ C C# C++ Clojure ℹ ColdFusion ℹ D ℹ Dart ℹ Delphi ℹ	.Net C++ Go Haskell Java JavaScript (Node.js) Python Ruby	C C# C++ Clojure Crystal D Dart Elixir Erlang

	Erlang Go Groovy ℹ️ Haskell Java JavaScript Lisp ℹ️ Lua ℹ️ MatLab ℹ️ Perl PHP PowerShell ℹ️ Prolog ℹ️ Python R ℹ️ Ruby Scala Smalltalk ℹ️		Fancy Go Haskell Haxe Java JavaScript (Node.js) Lisp Lua MatLab Objective-C OCaml Pascal Perl PHP Prolog Pure Data Python R Rebol Ruby Rust Scala Scheme Smalltalk Swift Tcl Visual Basic
Server-side scripts ℹ️	JavaScript	no	Lua
Triggers	yes ℹ️	no	no
Partitioning methods ℹ️	Sharding ℹ️	Sharding	Sharding
Replication methods ℹ️	Master-slave replication	yes ℹ️	Master-slave replication ℹ️ Multi-master replication ℹ️
MapReduce ℹ️	yes	no	no
Consistency concepts ℹ️	Eventual Consistency Immediate Consistency ℹ️	none	Eventual Consistency Strong eventual consistency with CRDTs
Foreign keys ℹ️	no ℹ️	no	no
Transaction concepts ℹ️	Multi-document ACID Transactions with snapshot isolation	no	Optimistic locking, atomic execution of commands blocks and scripts
Concurrency ℹ️	yes	yes	yes ℹ️
Durability ℹ️	yes ℹ️	yes	yes ℹ️
In-memory capabilities ℹ️	yes ℹ️	no	yes
User concepts ℹ️	Access rights for users and roles	no	Simple password-based access control ℹ️