

## Database Management Systems

1.

BDMS name	Mongo DB
Owner	MongoDB Inc
Supported Models	Document Store, NoSQL
Who is using it (exhaustive list)	<ul style="list-style-type: none"><li>• Expedia</li><li>• Forbes</li><li>• Bosch</li><li>• AstraZeneca</li><li>• MetLife</li><li>• Cisco</li><li>• Urban Outfitters</li><li>• Sprinklr</li><li>• theGuardian</li><li>• Comcast</li></ul>
Availability tools and how it works	Master-Slave replication
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	hybrid
Data manipulation language	JSON query syntax
Data Storage System	Data as documents, Binary BSON
Other Interesting Features	<ul style="list-style-type: none"><li>• Efficient for users and large array of addresses</li><li>• Geo-Spatial indexing</li><li>• Structure built to evolve</li><li>• Flexible structure</li></ul>

2.

BDMS name	Amazon DynamoDB
Owner	Amazon
Supported Models	Document Store, NoSQL
Who is using it (exhaustive list)	<ul style="list-style-type: none"><li>• Samsung</li><li>• Snapchat</li><li>• CapitalOne</li><li>• Expedia</li><li>• Tinder</li><li>• Airbnb</li><li>• Comcast</li><li>• Lyft</li><li>• Redfin</li><li>• Netflix</li><li>• Adobe</li><li>• Amazon</li></ul>
Availability tools and how it works	Cross-region replication
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	On-Cloud
Data manipulation language	JSON query syntax
Data Storage System	Data as documents
Other Interesting Features	<ul style="list-style-type: none"><li>• Scalable</li><li>• Has three data type (scalar, multi value and document)</li><li>• Used for streaming</li><li>• Works with javascript webshell</li></ul>

3.

BDMS name	Impala
Owner	Cloudera
Supported Models	DBMS Relational
Who is using it (exhaustive list)	<ul style="list-style-type: none"><li>• FireEye</li><li>• Thomson Reuters</li><li>• Bank Of America</li></ul>

	<ul style="list-style-type: none"> <li>• Deutsche Telekom</li> <li>• Ring Central</li> </ul>
Availability tools and how it works	replicable
Data partitioning and how it works	sharding
On-Premise, on-cloud or hybrid	On-Premise
Data manipulation language	SQL-like
Data Storage System	Data as documents
Other Interesting Features	Uses massive parallel processing Uses data stored in cluster Runs on computers with Hadoop

4.

BDMS name	Redis
Owner	Redis Labs, Salvatore Sanfilippo
Supported Models	Key Value store
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• Twitter</li> <li>• GitHub</li> <li>• Weibo</li> <li>• Pinterest</li> <li>• Snapchat</li> <li>• Craigslist</li> <li>• Digg</li> <li>• StackOverflow</li> <li>• Flickr</li> </ul>
Availability tools and how it works	Master-slave replication Multi-master replication
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	On-premise
Data manipulation language	EVAL
Data Storage System	Data structure store
Other Interesting Features	<ul style="list-style-type: none"> <li>• Supported IoT hardware</li> </ul>

5.

BDMS name	MariaDB
Owner	MariaDB Enterprise
Supported Models	Relacional
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• Alibaba</li> <li>• Huatai</li> <li>• Tencent</li> </ul>
Availability tools and how it works	Master-master replication Master-slave replication
Data partitioning and how it works	Horizontal partitioning Sharding with spider storage engine Galera cluster
On-Premise, on-cloud or hybrid	On- premise
Data manipulation language	SQL
Data Storage System	Document store
Other Interesting Features	<ul style="list-style-type: none"> <li>• Has additional database models</li> </ul>

6.

BDMS name	DB2
Owner	IBM
Supported Models	Relacional
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• Sicoob</li> <li>• Chinja Minsheng Banking Corp</li> <li>• Yazaki Europe limited</li> </ul>
Availability tools and how it works	Data replication setup
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	Hybrid
Data manipulation language	SQL

Data Storage System	Document store
Other Interesting Features	<ul style="list-style-type: none"> <li>• It's free</li> <li>• Can emulate partial indexes</li> </ul>

7.

BDMS name	Firebird
Owner	Firebird Foundation
Supported Models	Relational
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• MASA</li> <li>• Streamsoft</li> <li>• XPert Billing</li> <li>• Delta Quadrant: Horizons</li> </ul>
Availability tools and how it works	No, solamente con software de terceros
Data partitioning and how it works	No tiene
On-Premise, on-cloud or hybrid	On-Premise
Data manipulation language	SQL
Data Storage System	Key-Value store
Other Interesting Features	<ul style="list-style-type: none"> <li>• Built for ACID compliance</li> <li>• Multi generational structure</li> </ul>

8.

BDMS name	Oracle
Owner	Oracle
Supported Models	Relational
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• Amazon</li> <li>• Target</li> <li>• Google</li> <li>• Walmart</li> <li>• BestBuy</li> </ul>
Availability tools and how it works	Master-master and master-slave replication

Data partitioning and how it works	Horizontal partitioning
On-Premise, on-cloud or hybrid	On premise and on cloud
Data manipulation language	SQL
Data Storage System	Disk files
Other Interesting Features	Advanced replication

9.

BDMS name	PostgreSQL
Owner	PostgreSQL Global Development Group
Supported Models	Relational
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• Cisco</li> <li>• Red Hat</li> <li>• GreenPeace</li> <li>• IMDB</li> <li>• Debian</li> <li>• Macrworld</li> <li>• Etsy</li> </ul>
Availability tools and how it works	Master - slave replication
Data partitioning and how it works	Declarative partitioning
On-Premise, on-cloud or hybrid	On premise and on cloud
Data manipulation language	SQL
Data Storage System	PGDATA
Other Interesting Features	<ul style="list-style-type: none"> <li>• You can create your own data types</li> <li>• Query XML data</li> <li>• Streaming replication</li> </ul>

10.

BDMS name	Cassandra
Owner	Apache Software foundation
Supported Models	NoSQL

Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• Constant contact</li> <li>• Netflix</li> <li>• Cern</li> <li>• Comcast</li> <li>• eBay</li> <li>• Reddit</li> <li>• Instagram</li> </ul>
Availability tools and how it works	Selectable replication
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	On premise and on cloud
Data manipulation language	CQL
Data Storage System	Memtable
Other Interesting Features	Uses complex primary key

11.

BDMS name	Hadoop
Owner	Open Source
Supported Models	NoSQL
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• Adobe</li> <li>• IBM</li> <li>• Facebook</li> <li>• Amazon</li> </ul>
Availability tools and how it works	Selective replication
Data partitioning and how it works	Cluster partitioning, hash partitioning
On-Premise, on-cloud or hybrid	Hybrid
Data manipulation language	Hive
Data Storage System	HDFS
Other Interesting Features	<ul style="list-style-type: none"> <li>• Can import and export data to and from HDFS</li> <li>• HDFS compression</li> </ul>

12.

BDMS name	MySQL
Owner	Oracle
Supported Models	Relational
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• Twitter</li> <li>• Facebook</li> <li>• Booking.com</li> <li>• Verizon</li> <li>• Zappos</li> </ul>
Availability tools and how it works	Master-master and master-slave replication
Data partitioning and how it works	Horizontal partitioning and sharding with MySQL Cluster or MySQL Fabric
On-Premise, on-cloud or hybrid	Hybrid
Data manipulation language	SQL
Data Storage System	Files or binary trees
Other Interesting Features	<ul style="list-style-type: none"> <li>• Supports 64 indexes per table</li> </ul>

13.

BDMS name	Teradata
Owner	Teradata
Supported Models	Relational
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• Qualcomm</li> <li>• Deloitte</li> </ul>
Availability tools and how it works	Master-master replication
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	On premise and cloud
Data manipulation language	SQL
Data Storage System	Document store
Other Interesting Features	<ul style="list-style-type: none"> <li>• Storage configuration of hybrid</li> </ul>



	storage <ul style="list-style-type: none"> <li>• Class analytic</li> <li>• BI solution</li> </ul>
--	---

14.

BDMS name	CouchDB
Owner	Apache Software Foundation
Supported Models	NoSQL
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• BBC</li> <li>• LHC</li> </ul>
Availability tools and how it works	Couch replication protocol
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	On premise and on cloud
Data manipulation language	HTTP/JSON API
Data Storage System	Document store
Other Interesting Features	<ul style="list-style-type: none"> <li>• Has globally distributed server-clusters</li> <li>• Speaks JSON natively</li> </ul>

15

BDMS name	BigQuery
Owner	Google
Supported Models	Relational
Who is using it (exhaustive list)	<ul style="list-style-type: none"> <li>• Spotify</li> <li>• Smyte</li> <li>• Wolters Kluwer</li> </ul>
Availability tools and how it works	None
Data partitioning and how it works	None
On-Premise, on-cloud or hybrid	On cloud

Data manipulation language	SQL
Data Storage System	<ul style="list-style-type: none"> <li>• Serverless</li> </ul>
Other Interesting Features	<ul style="list-style-type: none"> <li>• Internet of things</li> <li>• Predictive digital marketing</li> <li>• Real-time inventory management system</li> </ul>

Sources:

- <https://db-engines.com/en/ranking>
- <https://www.mongodb.com>
- <https://aws.amazon.com/dynamodb/>
- <https://redis.io>
- <https://impala.apache.org>
- <https://cloud.google.com/bigquery/>
- <http://couchdb.apache.org>
- <https://www.teradata.com>
- <http://hadoop.apache.org>
- <https://www.postgresql.org>
- <https://www.mysql.com>
- <http://cassandra.apache.org>
- <http://www.firebirdsql.org>
- <https://www.ibm.com/analytics/us/en/db2/>
- <https://mariadb.com>