

Database Management Systems

Do an internet search and find the most used DBMS (at least 15), then fill the following table:

BDMS name	Apache Hadoop
Owner	Apache
Supported Models	No SQL
Who is using it (min 3)	Alibaba, AOL, CloudSpace, Dropfire, Ebay, Facebook
Availability tools and how it works	El HDFS hace nodos, en inicio se copia completa la información de la base de datos sin embargo en grandes cantidades de información, se hacen nodos con información específica y dividida en diferentes racks.
Data partitioning and how it works	Lo hace el HDFS, lo decide hadoop al realizar el map reduce
On-Premise, on-cloud or hybrid	hybrid
Data manipulation language	Hive
Data Storage System	Csv, TSV, Sequence files, Parquet
Other Interesting Features	Es posible ejecutar un cluster completo por medio de un live cd

BDMS name	MySQL
Owner	Oracle
Supported Models	SQL
Who is using it (min 3)	Facebook, Airbnb, Telenor, Pinterest
Availability tools and how it works	MySQL Master-HA, consiste de dos componentes, de un manejador y un nodo. El manejador maneja las fallas, toma decisiones y realiza copias en los esclavos
Data partitioning and how it works	InnoDB es el motor de almacenamiento que ocupa MySQL, las tablas se pueden segmentar horizontalmente o verticalmente, y con el manejador de Mysql, puedes gestionar los datos
On-Premise, on-	On-premise, On-cloud

cloud or hybrid	
Data manipulation language	SQL
Data Storage System	Csv,tsv
Other Interesting Features	Cloud service

BDMS name	Oracle Database 12c
Owner	Oracle
Supported Models	sql
Who is using it (min 3)	Linkedin, Toshiba, Philips
Availability tools and how it works	Oracle Active Data Guard, permite unicamente lecturas a los datos fisicos. Extracción de datos y respaldos. Aligera la carga minimizando el impacto.
Data partitioning and how it works	Oracle tiene sus propias formas de hacer data partitioning: Range, list, auto-list, composite, multi-column, Interval virtual, Interval, range.
On-Premise, on-cloud or hybrid	hybrid
Data manipulation language	SQL
Data Storage System	NAS,SAN,Tape
Other Interesting Features	Cloud, Paas.

BDMS name	PostgreSQL
Owner	PostgreSQL (Berkeley)
Supported Models	SQL
Who is using it (min 3)	Cisco, Juniper Networks, Skype

Availability tools and how it works	VMware vFabric Data Director. Con un master server y servidores esclavos
Data partitioning and how it works	Usa constrain exclusion dentro de las query para mejorar el desempeño
On-Premise, on-cloud or hybrid	hybird
Data manipulation language	SQL
Data Storage System	XML, XSLT, JSON
Other Interesting Features	Big data, SCRAm Auth.

BDMS name	IBM DB2
Owner	IBM
Supported Models	SQL, No-SQL
Who is using it (min 3)	SAP, Banamex, Banorte
Availability tools and how it works	Data replication. Minimizando el tiempo asociado con las fallas de batch
Data partitioning and how it works	By Hash, Dimension and Range.
On-Premise, on-cloud or hybrid	Hybird
Data manipulation language	SQL
Data Storage System	Json,Bson,Xml,csv
Other Interesting Features	Data mining.

BDMS name	Apache Cassandra
Owner	Apache

Supported Models	nosql
Who is using it (min 3)	Walmart, Apple, Cico, CERN, Twitter
Availability tools and how it works	Nodetool. Un nodo master y esclavos.
Data partitioning and how it works	Cada nodo es responsable de alguna parte de los datos, puede ser por random, ordenado
On-Premise, on-cloud or hybrid	Hybird
Data manipulation language	CQL
Data Storage System	JSON,XML
Other Interesting Features	

BDMS name	SQL Server
Owner	Microsoft
Supported Models	SQL
Who is using it (min 3)	NASDAQ, Yahoo,Dell.
Availability tools and how it works	SQL server ocupa Windows server failover clustering (WSFC), es distribuido a partir de nodos, sobre subnets
Data partitioning and how it works	Lo hace a partir de columnas e indices
On-Premise, on-cloud or hybrid	On-permise
Data manipulation language	Transact-SQL
Data Storage System	XML
Other Interesting Features	Compatibilidad con Azure

BDMS name	Firebird
Owner	Firebird foundation
Supported Models	SQL, PSQL(Procedural)
Who is using it (min 3)	U.S Navy, British Rail, KIMData
Availability tools and how it works	Firebird failover Cluster
Data partitioning and how it works	By column, clause, row.
On-Premise, on-cloud or hybrid	On-Premise
Data manipulation language	Subset of SQL
Data Storage System	Csv, json
Other Interesting Features	

BDMS name	SQLite
Owner	D.Richard Hipp
Supported Models	SQL
Who is using it (min 3)	Mozilla firefox, Skype,XBMC
Availability tools and how it works	No hay
Data partitioning and how it works	Lo hace por medio de attachments, sin embargo no son permaentes.
On-Premise, on-cloud or hybrid	On-Premise
Data manipulation language	SQL
Data Storage System	JSON,csv

Other Interesting Features	
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