Francisco Huelsz Prince A01019512

Bases de datos avanzadas

BDMS name	MySQL
Owner	Oracle
Supported Models	Relacional
Who is using it (exhaustive list)	UBER, Netflix, Youtube, Facebook, Twitter
Availability tools and how it works	Cluster (using sharding)
Data partitioning and how it works	Horizontal partitioning, sharding with MySQL Cluster or MySQL Fabric
On-Premise, on-cloud or hybrid	On-Premise
Data manipulation language	SQL
Data Storage System	InnoDB (B+ Tree)
Other Interesting Features	

BDMS name	SQLServer
Owner	Microsoft
Supported Models	Relacional
Who is using it (exhaustive list)	NASDAQ, Dell, Microsoft, Docusign
Availability tools and how it works	Cluster (Failover), Group, Mirroring
Data partitioning and how it works	tables can be distributed across several files (horizontal partitioning); sharding through federation
On-Premise, on-cloud or hybrid	On-premise
Data manipulation language	SQL
Data Storage System	Páginas de 8KB

Other Interesting Features	

BDMS name	Cosmos DB
Owner	Microsoft
Supported Models	Multi-paradigma
Who is using it (exhaustive list)	Microsoft,
Availability tools and how it works	Global distribution in several data centers. Failover replicas.
Data partitioning and how it works	Sharding. Cosmos DB added automatic partitioning capability in 2016 with the introduction of partitioned collections.
On-Premise, on-cloud or hybrid	On-Cloud
Data manipulation language	SQL-like
Data Storage System	Proprietary
Other Interesting Features	

BDMS name	MongoDB
Owner	MongoDB Inc.
Supported Models	Document Store
Who is using it (exhaustive list)	Google, UPS, Facebook, Cisco
Availability tools and how it works	Failover replica set. Master-slave replication
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	Hybrid
Data manipulation language	Proprietary protocol using JSON
Data Storage System	BSON files, up to 2GB

Other Interesting Features	

BDMS name	Oracle
Owner	Oracle
Supported Models	Relacional
Who is using it (exhaustive list)	Coca-Cola, FEMSA, Swarovski
Availability tools and how it works	Zero loss replication
Data partitioning and how it works	horizontal partitioning
On-Premise, on-cloud or hybrid	Hybrid
Data manipulation language	SQL
Data Storage System	Blocks, Extents y Segments
Other Interesting Features	

BDMS name	PostgreSQL
Owner	PostgreSQL Global Development Group
Supported Models	Relacional
Who is using it (exhaustive list)	GE, Etsy, FlightAware
Availability tools and how it works	Replication, Clustering, and Connection Pooling
Data partitioning and how it works	Declarative partitioning
On-Premise, on-cloud or hybrid	On-Premise
Data manipulation language	SQL
Data Storage System	Un archive por cada tabla, divididos en segmentos de 1GB

Other Interesting Features	

BDMS name	DB2
Owner	IBM
Supported Models	Relacional
Who is using it (exhaustive list)	IBM,
Availability tools and how it works	Clustering
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	Hybrid
Data manipulation language	SQL
Data Storage System	Storage groups
Other Interesting Features	

BDMS name	Cassandra
Owner	Apache
Supported Models	Wide-column store
Who is using it (exhaustive list)	Apple, Comcast, AT&T
Availability tools and how it works	Clustering
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	On-Premise
Data manipulation language	SQL-like DML and DDL statements
Data Storage System	Crea una estructura de varios archivos para cada SSTable

Other Interesting Features	

BDMS name	Redis
Owner	RedisLabs
Supported Models	Key-value store
Who is using it (exhaustive list)	Twitter, Github, Snapchat, StackOverflow
Availability tools and how it works	Redis Sentinel: Sistema distribuido
Data partitioning and how it works	Sharding
On-Premise, on-cloud or hybrid	Hybrid
Data manipulation language	proprietary protocol
Data Storage System	Guarda todo en memoria, HashMap. Datasets en archivos .RDB
Other Interesting Features	

BDMS name	Azure SQL
Owner	Microsoft
Supported Models	Relacional
Who is using it (exhaustive list)	Microsoft, Associated Press, Vapiano
Availability tools and how it works	Cloud failover
Data partitioning and how it works	Proprietary
On-Premise, on-cloud or hybrid	On-cloud
Data manipulation language	Proprietary
Data Storage System	

Other Interesting Features	

BDMS name	DynamoDB
Owner	Amazon
Supported Models	Document store
Who is using it (exhaustive list)	Amazon, Samsung, Snapchat, Tinder, Netflix
Availability tools and how it works	Global tables: tablas replicadas en distintas regiones
Data partitioning and how it works	Automatic partitioning, Sharding
On-Premise, on-cloud or hybrid	On-cloud
Data manipulation language	RESTful HTTP API
Data Storage System	Proprietary
Other Interesting Features	

BDMS name	SQLite
Owner	D. Richard Hipp
Supported Models	Relacional
Who is using it (exhaustive list)	Adobe, Airbus, Apple, Facebook, Microsoft, Mozilla
Availability tools and how it works	Nada
Data partitioning and how it works	Nada
On-Premise, on-cloud or hybrid	On-Premise
Data manipulation language	SQL
Data Storage System	Guarda todo en un solo archivo
Other Interesting Features	

BDMS name	Google BigQuery
Owner	Google
Supported Models	Relacional
Who is using it (exhaustive list)	Google, Motorola, Evernote, Niantic
Availability tools and how it works	Automatic data replication
Data partitioning and how it works	Nada
On-Premise, on-cloud or hybrid	On-Cloud
Data manipulation language	SQL
Data Storage System	Proprietary
Other Interesting Features	