## **Database Management Systems**

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

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| --- | --- |
| BDMS name | MySQL |
| Owner | Oracle |
| Supported Models | Relational |
| Who is using it (exhaustive list) | Wikipedia, Google, Youtube |
| Availability tools and how it works | Yes, MySQL Fabric |
| Data partitioning and how it works | Yes, MySQL Cluster |
| On-Premise, on-cloud or hybrid | On-premise |
| Data manipulation language | SQL |
| Data Storage System | InnoDB |
| Other Interesting Features | MariaDB fue creado con base en MySQL, en 2009, por antiguos desarrolladores de MySQL. |

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| --- | --- |
| BDMS name | Postgresql |
| Owner | PostgreSQL Global Development Group |
| Supported Models | Object-Relational |
| Who is using it (exhaustive list) | MySpace, Instagram, TripAdvisor |
| Availability tools and how it works | Yes, master-slave |
| Data partitioning and how it works | Yes, Citus |
| On-Premise, on-cloud or hybrid | On-premise |
| Data manipulation language | SQL |
| Data Storage System | PGDATA |
| Other Interesting Features | Los orígenes fueron creados en la Universidad de California, Berkeley |

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| --- | --- |
| BDMS name | MongoDB |
| Owner | MongoDB inc. |
| Supported Models | No Relational |
| Who is using it (exhaustive list) | MetLife, Expedia, Google |
| Availability tools and how it works | Yes, master-slave |
| Data partitioning and how it works | Yes, with shards cluster |
| On-Premise, on-cloud or hybrid | On-premise |
| Data manipulation language | NoSQL |
| Data Storage System | GridFS |
| Other Interesting Features | Usa documentos parecidos a JSON como schemas |

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| --- | --- |
| BDMS name | Microsoft SQL Server |
| Owner | Microsoft |
| Supported Models | Relational |
| Who is using it (exhaustive list) | Progressive, Fujifilm, Nasdaq |
| Availability tools and how it works | Yes, master-slave |
| Data partitioning and how it works | Yes, Microsoft Windows Failover Clustering |
| On-Premise, on-cloud or hybrid | On-premise |
| Data manipulation language | SQL |
| Data Storage System | Physical |
| Other Interesting Features | Fue creado desde 1989 |

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| --- | --- |
| BDMS name | Azure |
| Owner | Microsoft |
| Supported Models | Relational |
| Who is using it (exhaustive list) | Geico, Marc Jacobs, Citrix |
| Availability tools and how it works | Yes, master-slave |
| Data partitioning and how it works | Yes, Microsoft Windows Failover Clustering |
| On-Premise, on-cloud or hybrid | on-cloud |
| Data manipulation language | SQL |
| Data Storage System | Data centers |
| Other Interesting Features | Fue basado en Microsoft SQL Server para hacer un SaaS |

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| --- | --- |
| BDMS name | SQLite |
| Owner | Richard Hipp |
| Supported Models | Relational |
| Who is using it (exhaustive list) | Adobe, Apple, Dropbox |
| Availability tools and how it works | Yes, litereplica |
| Data partitioning and how it works | No |
| On-Premise, on-cloud or hybrid | on-premise |
| Data manipulation language | SQL |
| Data Storage System | InnoDB |
| Other Interesting Features | Hipp diseñó SQLite cuando trabajaba para el ejército estadounidense |

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| --- | --- |
| BDMS name | Firebird |
| Owner | Firebird Project |
| Supported Models | Relational |
| Who is using it (exhaustive list) | U.S. Navy, British Rail, Broadview Software Ltd |
| Availability tools and how it works | Yes, Firebird failover cluster |
| Data partitioning and how it works | Yes, natively |
| On-Premise, on-cloud or hybrid | on-premise |
| Data manipulation language | SQL |
| Data Storage System | MGA |
| Other Interesting Features | Se basó en Interbase |

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| --- | --- |
| BDMS name | Cassandra |
| Owner | Apache Software Foundation |
| Supported Models | No Relational |
| Who is using it (exhaustive list) | Cisco, Walmart, Talentica |
| Availability tools and how it works | Yes, natively |
| Data partitioning and how it works | Yes, natively. In Cassandra all nodes are equal |
| On-Premise, on-cloud or hybrid | on-premise |
| Data manipulation language | NoSQL |
| Data Storage System | Tables |
| Other Interesting Features | No puede hacer joins o subqueries |

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| --- | --- |
| BDMS name | Versant |
| Owner | Versant Corporation |
| Supported Models | Object Oriented |
| Who is using it (exhaustive list) | Bloomberg, Citi, FICO |
| Availability tools and how it works | Yes, master-slave |
| Data partitioning and how it works | yes, with Actian Vector |
| On-Premise, on-cloud or hybrid | all three |
| Data manipulation language | C/C++ java |
| Data Storage System | Actian Data Cloud backup |
| Other Interesting Features | Fully-managed B2B integration service that automates workflows with buyers and suppliers to improve financial results for procure to pay and leads to cash. |

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| --- | --- |
| BDMS name | Teradata Database |
| Owner | Teradata |
| Supported Models | Relational |
| Who is using it (exhaustive list) | Wells fargo, Boeing, McCain |
| Availability tools and how it works | Yes, master-slave |
| Data partitioning and how it works | Yes, with a flexible architecture |
| On-Premise, on-cloud or hybrid | on-premise |
| Data manipulation language | adapts |
| Data Storage System | hybrid row/column |
| Other Interesting Features | Industry’s Most Intelligent Cost Based Optimizer  Automated and Low Administration |

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| --- | --- |
| BDMS name | Red Brick |
| Owner | IBM |
| Supported Models | Relational |
| Who is using it (exhaustive list) | IBM |
| Availability tools and how it works | yes, master-slave |
| Data partitioning and how it works | yes, with clusters |
| On-Premise, on-cloud or hybrid | hybrid |
| Data manipulation language | SQL |
| Data Storage System | Tables |
| Other Interesting Features | Red Brick Warehouse supports two sets of analytic functions: the original RISQL *display functions* developed exclusively for the Red Brick server and a set of *SQL OLAP functions*, which adhere to and extend the ANSI SQL-99 standard. |

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| --- | --- |
| BDMS name | Actian NoSQL |
| Owner | Actian Corporation |
| Supported Models | Object |
| Who is using it (exhaustive list) | Bloomberg, Citi, FICO |
| Availability tools and how it works | yes, Online Schema evolution |
| Data partitioning and how it works | yes, with Actian Vector |
| On-Premise, on-cloud or hybrid | all three |
| Data manipulation language | C/C++ java |
| Data Storage System | Actian data cloud backup |
| Other Interesting Features | Fully-managed B2B integration service that automates workflows with buyers and suppliers to improve financial results for procure to pay and leads to cash |

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| --- | --- |
| BDMS name | TimesTen |
| Owner | Oracle |
| Supported Models | relational |
| Who is using it (exhaustive list) | Oracle |
| Availability tools and how it works | Yes, in-memory |
| Data partitioning and how it works | Yes, with clusters |
| On-Premise, on-cloud or hybrid | On-Premise |
| Data manipulation language | SQL |
| Data Storage System | No |
| Other Interesting Features | TimesTen provides applications with short, consistent response-times and very high throughput as required by applications with database-intensive workloads |

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| --- | --- |
| BDMS name | Velocis |
| Owner | Centura Software |
| Supported Models | Relational and Network |
| Who is using it (exhaustive list) | Raima Inc |
| Availability tools and how it works | - |
| Data partitioning and how it works | - |
| On-Premise, on-cloud or hybrid | On-Premise |
| Data manipulation language | SQL |
| Data Storage System | Physical |
| Other Interesting Features | It now has dynamic DDL |

|  |  |
| --- | --- |
| BDMS name | Firebase |
| Owner | Google |
| Supported Models | Relational |
| Who is using it (exhaustive list) | Shazam, Duolingo, Trivago |
| Availability tools and how it works | No |
| Data partitioning and how it works | Yes, with table clusters |
| On-Premise, on-cloud or hybrid | hybrid |
| Data manipulation language | differs |
| Data Storage System | Google Cloud Storage |
| Other Interesting Features | One of the best DBMS for mobile use for its scalability and ease of use. |