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## 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 | Oracle Database |
| Owner | Oracle |
| Supported Models | Relational , document store, key value store. |
| Who is using it (exhaustive list) | Varsity, Vivo, Evry, NeML, Pinterest, Uber |
| Availability tools and how it works | Master-master replication  Master- slave replication |
| Data partitioning and how it works | Horizontal partitioning. |
| On-Premise, on-cloud or hybrid | on-premise and cloud |
| Data manipulation language | SQL |
| Data Storage System | JSON and XML columns |
| Other Interesting Features | Oracle's wild ride, with significant highs and lows, has taken the company from a small database management firm more than 30 years ago to a power player in the cloud industry today. In between, Oracle transitioned itself from a database and enterprise software company to a software company with a hardware play, thanks partly to the company's history of acquisitions, including the mega-buy of Sun Microsystems for $7.4 billion in 2010. |

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| BDMS name | Hive |
| Owner | Apache |
| Supported Models | Relational, document store |
| Who is using it (exhaustive list) | IBM, HortonWorks, Facebook. |
| Availability tools and how it works | UDF |
| Data partitioning and how it works | Data Tables, modules |
| On-Premise, on-cloud or hybrid | On premise |
| Data manipulation language | HQL |
| Data Storage System | XML |
| Other Interesting Features | Long-lived daemons for query fragment execution, I/O and caching |

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| --- | --- |
| BDMS name | Microsoft SQL Server |
| Owner | Microsoft |
| Supported Models | Relational |
| Who is using it (exhaustive list) | Microsoft |
| Availability tools and how it works | SQL, OLE DB, TDS, ODBC, JDBC. |
| Data partitioning and how it works | SQL Server supports table and index partitioning. The data of partitioned tables and indexes is divided into units that can be spread across more than one filegroup in a database. The data is partitioned horizontally, so that groups of rows are mapped into individual partitions. All partitions of a single index or table must reside in the same database. |
| On-Premise, on-cloud or hybrid | On-Premise |
| Data manipulation language | SQL |
| Data Storage System | XML |
| Other Interesting Features | High availability and disaster recovery. |

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| BDMS name | Elasticsearch |
| Owner | Elastic |
| Supported Models | Relational, Nested Objects |
| Who is using it (exhaustive list) | Sprint, Science Warehouse, Glomex |
| Availability tools and how it works | Mapping, Analysis, Query DSL |
| Data partitioning and how it works | Sharding |
| On-Premise, on-cloud or hybrid | Cloud |
| Data manipulation language | C, C++, Python |
| Data Storage System | JSON |
| Other Interesting Features | Quick and flexible search engine. |

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| BDMS name | SAP Adaptive Service |
| Owner | IBM |
| Supported Models | AWS, Relational |
| Who is using it (exhaustive list) | JPMorgan Chase, Sybase, Time |
| Availability tools and how it works | **ASE Cockpit**. |
| Data partitioning and how it works | Data tables |
| On-Premise, on-cloud or hybrid | On premise |
| Data manipulation language | ASE |
| Data Storage System | XML |
| Other Interesting Features | Data Store Access Management |

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| BDMS name | Hadoop |
| Owner | Doug Cutting y Mike Cafarella |
| Supported Models | Document store |
| Who is using it (exhaustive list) | A9,AOL,eBay,facebook,IBM |
| Availability tools and how it works | HDFS is designed to reliably store very large files across machines in a large cluster |
| Data partitioning and how it works |  |
| On-Premise, on-cloud or hybrid | On-Premise |
| Data manipulation language | JAVA |
| Data Storage System | Distributed File System ,JSON |
| Other Interesting Features | Hadoop can also be used in computer farms and high performance environments. |

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| BDMS name | Cassandra |
| Owner | Apache Software Foundation |
| Supported Models | Wide column store |
| Who is using it (exhaustive list) | Apple, WalmartLabs, Facebook, Rocket |
| Availability tools and how it works | Selectable replication factors |
| Data partitioning and how it works | Sharding |
| On-Premise, on-cloud or hybrid | hybrid |
| Data manipulation language | JAVA |
| Data Storage System | Proprietary protocol, Thrift |
| Other Interesting Features | Was created for online applications that require fast performance and no downtime. |

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| BDMS name | MongoDB |
| Owner | MongoDB, Inc |
| Supported Models | Document store |
| Who is using it (exhaustive list) | Expedia, ebay, McAfee, HSBC |
| Availability tools and how it works | Master-slave replication |
| Data partitioning and how it works | Sharding |
| On-Premise, on-cloud or hybrid | On-Premise |
| Data manipulation language | Javascript |
| Data Storage System | JSON |
| Other Interesting Features | Is used for IoT by Bosch |

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| BDMS name | Neo4j |
| Owner | Neo4j is developed by Neo4j |
| Supported Models | Graph database |
| Who is using it (exhaustive list) | eBay, Walmart, Cisco, UBS, HP |
| Availability tools and how it works | Causal Clustering using Raft protocol |
| Data partitioning and how it works | None |
| On-Premise, on-cloud or hybrid | hybrid |
| Data manipulation language | SQL |
| Data Storage System | Native graph storage |
| BDMS name | Neo4j |

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| BDMS name | PostgresSQL |
| Owner | PostgreSQL Global Development Group |
| Supported Models | Relational DBMS,Document store  Key-value store |
| Who is using it (exhaustive list) | McAfee, Trend Micro, Comodo, Project Honey Pot ,Skype |
| Availability tools and how it works | Master-slave replication |
| Data partitioning and how it works | Declarative partitioning (by range or by list) since PostgreSQL 10.0 |
| On-Premise, on-cloud or hybrid | On-Premise |
| Data manipulation language | C |
| Data Storage System | The POSTGRES storage manager is the collection of modules |
| Other Interesting Features | Using PostgreSQL, you can directly query XML data stored in the database and extract elements from the data stored in your database |

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| BDMS name | CouchDB |
| Owner | Apache Software Foundation |
| Supported Models | Document store |
| Who is using it (exhaustive list) | Meebo,ubuntu,BBC,Credit Suisse,Friendpaste |
| Availability tools and how it works | Master-master replication  Master-slave replication |
| Data partitioning and how it works | Sharding |
| On-Premise, on-cloud or hybrid | On-Premise |
| Data manipulation language | Erlang |
| Data Storage System | JSON |
| Other Interesting Features | CouchDB can replicate data to devices (such as smart phones) that can go offline and automatically handle data synchronization when the device is back online |

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| BDMS name | SqLite |
| Owner | Dwayne Richard Hipp |
| Supported Models | Relational DBMS,Key-value store |
| Who is using it (exhaustive list) | Adobe Photoshop Elements,Clementine,kexi,mozilla firefox,XBMC |
| Availability tools and how it works | none |
| Data partitioning and how it works | none |
| On-Premise, on-cloud or hybrid | On-Premise |
| Data manipulation language | SQL |
| Data Storage System | SQLite reads and writes directly to ordinary disk files |
| Other Interesting Features | SQLite is an in-process library that implements a self-contained, serverless, zero-configuration,transactional SQL database engine |

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| BDMS name | Redis |
| Owner | Open Source ([Salvatore Sanfilippo](https://es.wikipedia.org/w/index.php?title=Salvatore_Sanfilippo&action=edit&redlink=1) creator) |
| Supported Models | Dictionary or hash table |
| Who is using it (exhaustive list) | Amazon Web services, Twitter, GitHub |
| Availability tools and how it works | Redis Sentinel, Redis Cluster |
| Data partitioning and how it works | Clusters or nodes |
| On-Premise, on-cloud or hybrid | Hybrid |
| Data manipulation language | LUA Scripting |
| Data Storage System | JSON |
| Other Interesting Features | Redis is written in ANSI C and works in most POSIX systems like Linux, \*BSD, OS X without external dependencies |

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| BDMS name | DB2 |
| Owner | IBM |
| Supported Models | Relational |
| Who is using it (exhaustive list) | IBM,Canonical, SIA |
| Availability tools and how it works | With MQ and Infosphere |
| Data partitioning and how it works | Sharding |
| On-Premise, on-cloud or hybrid | On-Premise |
| Data manipulation language | SQL |
| Data Storage System | JSON, XQuery, JDBC |
| Other Interesting Features | It permits the hiding of confidential data in separate views to prevent unauthorized access |