

Comparison DB2 vs. Microsoft SQL Server vs. Oracle

Name	DB2 X	Microsoft SQL Server X	Oracle X
Description	Common in IBM host environments, 2 different versions for host and Windows/Linux	RDBMS	RDBMS
Database model	RDBMS	RDBMS	RDBMS
Developer	IBM	Microsoft	Oracle
Initial release	1983	1989	1980
License	Commercial	Commercial	Commercial
Database as a Service (DBaaS)	No	No	No
Implementation language	C and C++	C++	C and C++
Server operating systems	Linux	Windows	AIX
	Unix		HP-UX
	Windows		Linux
	z/OS		OS X
			Solaris
			Windows
			z/OS
Data scheme	Yes	Yes	Yes
Typing	Yes	Yes	Yes
Secondary indexes	Yes	Yes	Yes
SQL	Yes	Yes	Yes
APIs and other access methods	JSON style queries	OLE DB	ODP.NET
	XQuery	Tabular Data Stream (TDS)	Oracle Call Interface (OCI)
	ADO.NET	ADO.NET	JDBC
	JDBC	JDBC	ODBC
	ODBC	ODBC	
Supported programming languages			

Server-side scripts	Yes	Transact-SQL and .NET languages	PL/SQL
Triggers	Yes	Yes	Yes
Partitioning methods	Sharding	tables can be distributed across several files (horizontal partitioning); sharding through federation	horizontal partitioning
Replication methods	Yes	yes, but depending on the SQL-Server Edition	Master-master replication
			Master-slave replication
MapReduce	No	No	No
Foreign keys	Yes	Yes	Yes
Transaction concepts	ACID	ACID	ACID
Concurrency	Yes	Yes	Yes
Durability	Yes	Yes	Yes