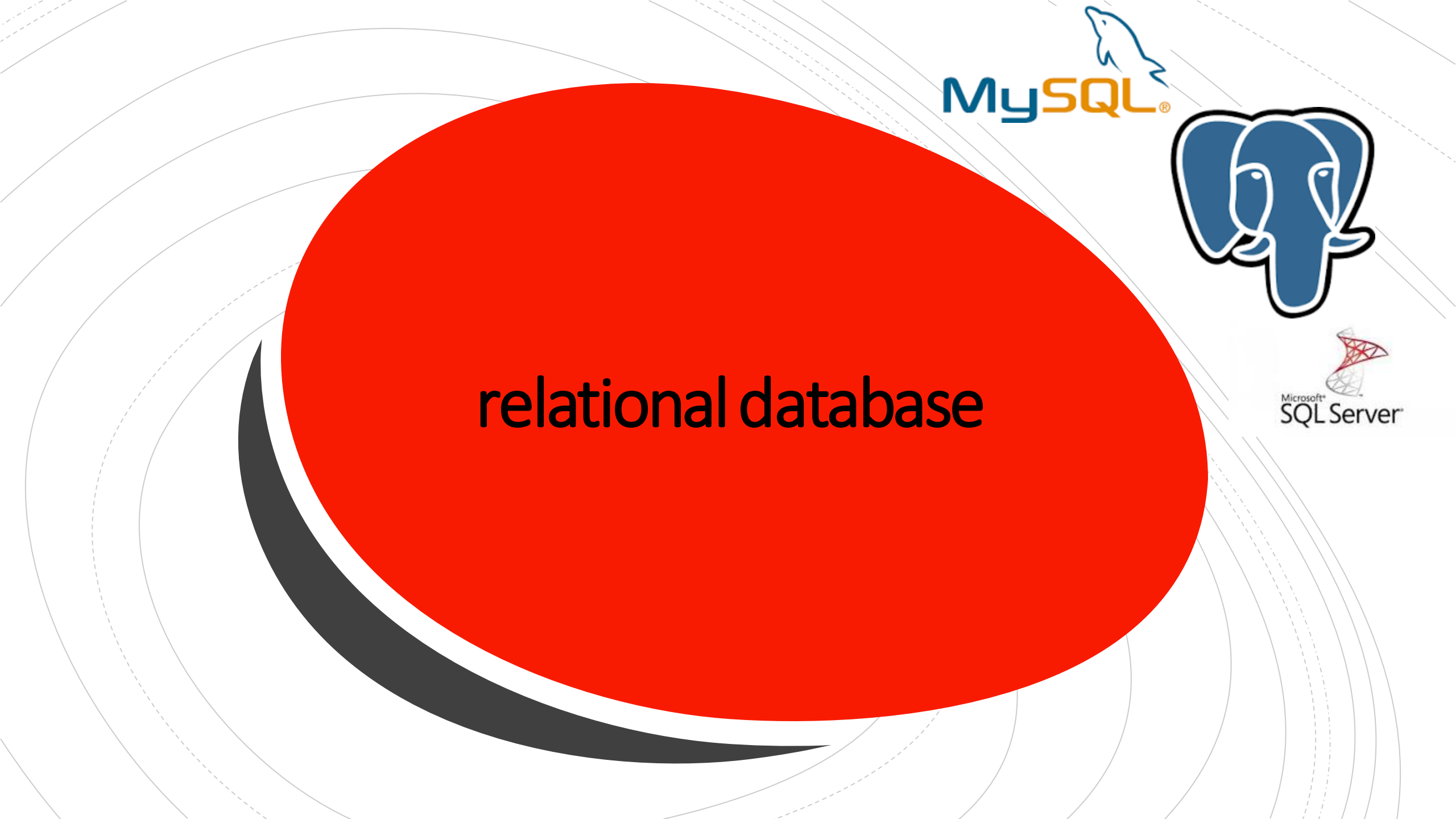
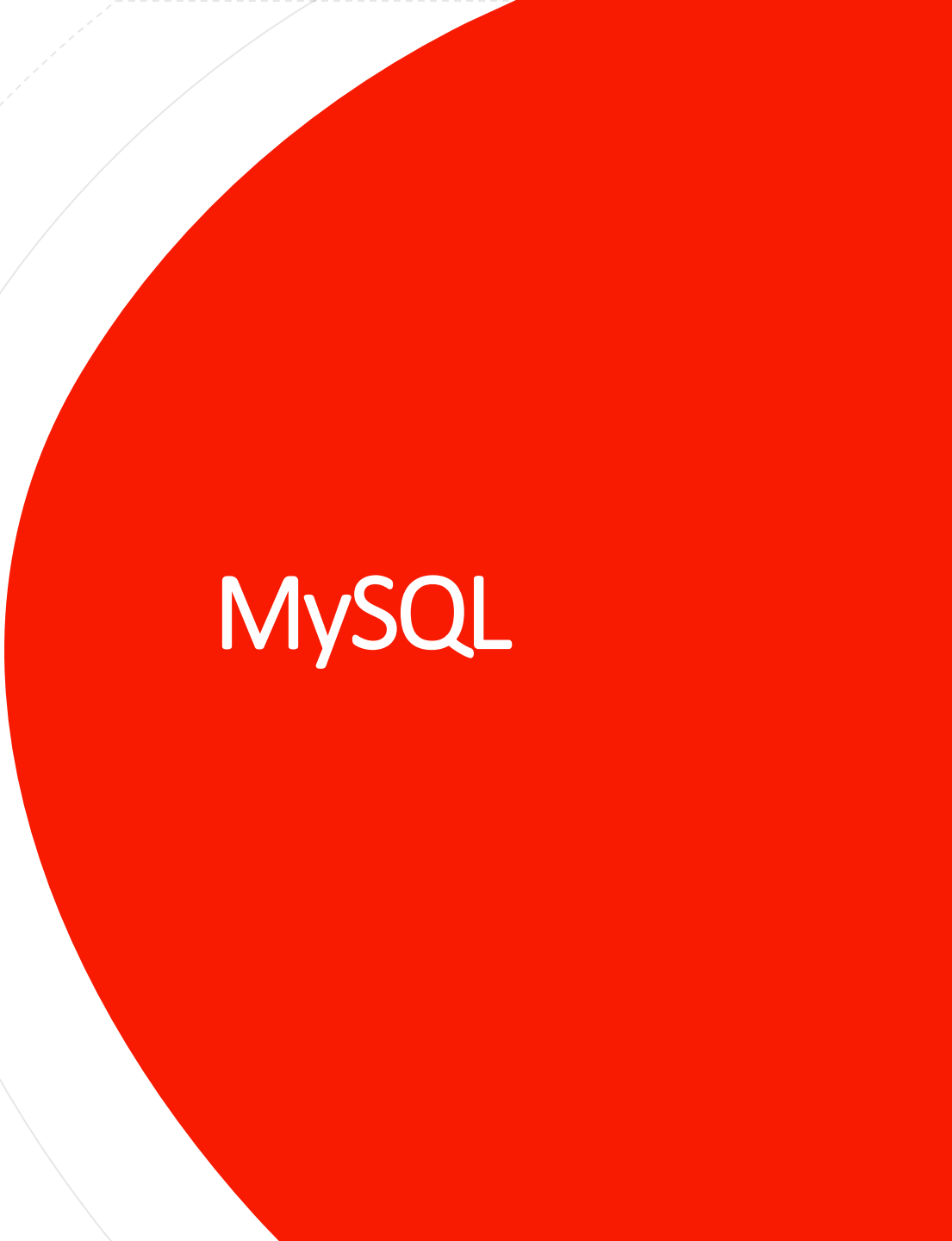

MySQL
Microsoft SQL Server
relational database

What is MySQL?

The MySQL software delivers a very fast, multi-threaded, multi-user, and robust SQL (Structured Query Language) database server. MySQL Server is intended for mission-critical, heavy-load production systems as well as for embedding into mass-deployed software.

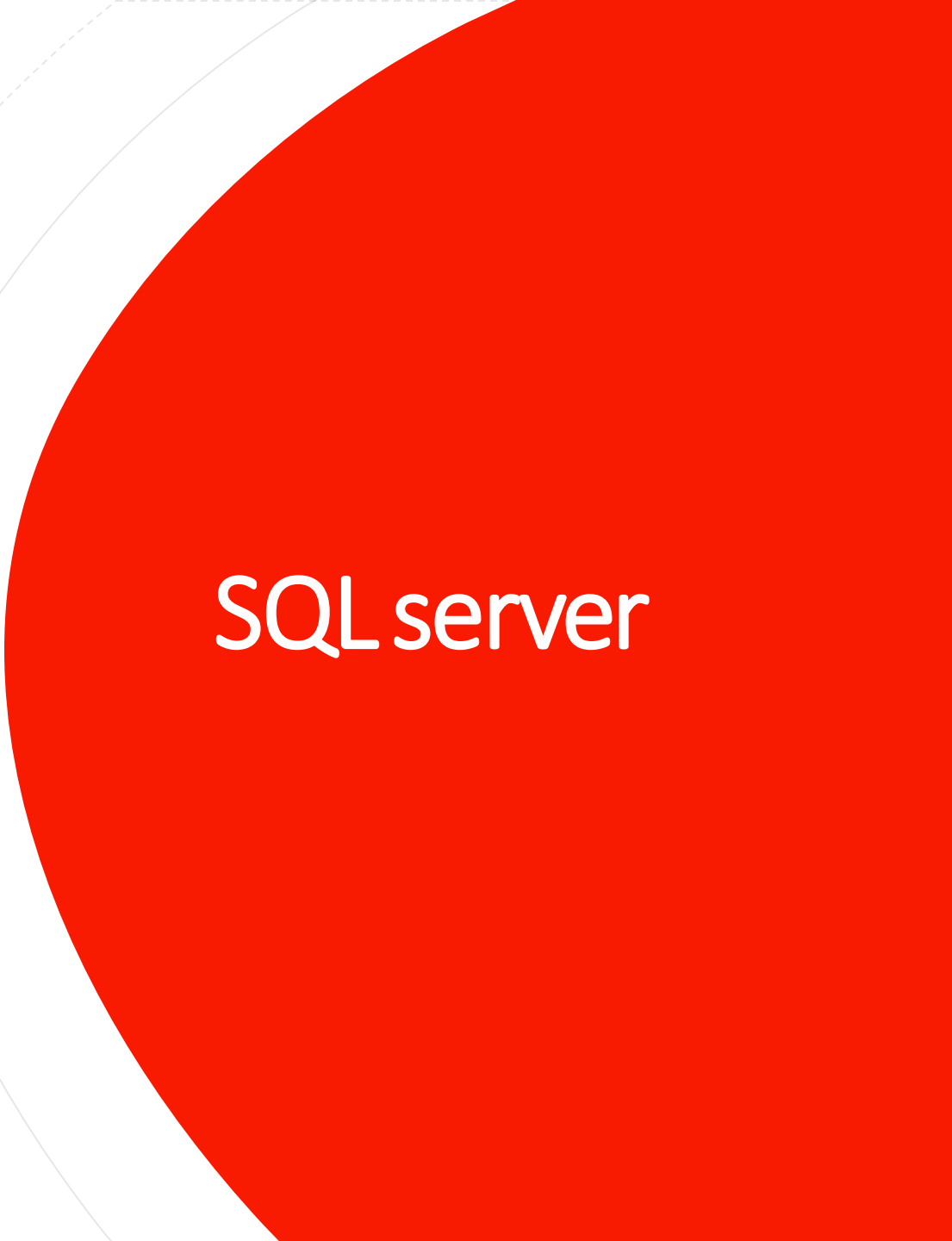


What is PostgreSQL?

PostgreSQL is an advanced object-relational database management system that supports an extended subset of the SQL standard, including transactions, foreign keys, subqueries, triggers, user-defined types and functions.

What is Microsoft SQL Server?

Microsoft® SQL Server is a database management and analysis system for e-commerce, line-of-business, and data warehousing solutions.



Difference between those three Relational data base

Name	**Microsoft SQL Server** X	**MySQL** X	**PostgreSQL** X
Description	Microsofts relational DBMS	Widely used open source RDBMS	Widely used open source RDBMS
Primary database model	Relational DBMS	Relational DBMS	Relational DBMS
Secondary database models	Document store Graph DBMS	Document store	Document store
DB-Engines Ranking Trend Chart 	Score 1059.72 Rank #3 Overall #3 Relational DBMS	Score 1268.51 Rank #2 Overall #2 Relational DBMS	Score 527.00 Rank #4 Overall #4 Relational DBMS
Website	www.microsoft.com/en-us/sql-server	www.mysql.com	www.postgresql.org
Technical documentation	docs.microsoft.com/en-ie/sql/sql-server/sql-server-technical-documentation	dev.mysql.com/doc	www.postgresql.org/docs/manuals
Developer	Microsoft	Oracle	PostgreSQL Global Development Group
Initial release	1989	1995	1989
Current release	SQL Server 2019, November 2019	8.0.21, 2020	12.3, May 2020
License	commercial	Open Source	Open Source

Server-side scripts	Transact SQL, .NET languages, R, Python and (with SQL Server 2019) Java	yes	user defined functions
Triggers	yes	yes	yes
Partitioning methods	tables can be distributed across several files (horizontal partitioning); sharding through federation	horizontal partitioning, sharding with MySQL Cluster or MySQL Fabric	partitioning by range, list and (since PostgreSQL 11) by hash
Replication methods	yes, but depending on the SQL-Server Edition	Multi-source replication Source-replica replication	Source-replica replication
MapReduce	no	no	no
Consistency concepts	Immediate Consistency	Immediate Consistency	Immediate Consistency
Foreign keys	yes	yes	yes
Transaction concepts	ACID	ACID	ACID
Concurrency	yes	yes	yes
Durability	yes	yes	yes
In-memory capabilities	yes	yes	no
User concepts	fine grained access rights according to SQL-standard	Users with fine-grained authorization concept	fine grained access rights according to SQL-standard

Relational data base