Data base management

- MySL
- Postgre SQL
 - SQL Server

What is RDBM?

RDBMs are software systems that enable users to define, create, maintain and control access to relational databases. Relational, because the databases' tables are inter-jointed / inter-connected with a specific hierarchy (one-to-one, oneto-many and many-to-many).

So instead of having one gigantic table with multiple columns and rows we can divide this main table into interlinked sub-tables. Making it easier to access data, to understand the database and to handle complex data configuration.

Most Popular Database P

2019 2018

1ysor	ostgreSQL	MS SOL
52%	36%	34%
26%	33%	42%



MySQL is the most popular RDBMS. It was initially released the 23 May 1995 and written in is currently owned by Oracle Corporation. It is used by many popular companies: Google, LinkedIn, Amazon, Netflix, Faceboc Youtube...

MySQL is open-source and benefits from a very big community.

As a RDBMS it uses a strict schema model (data inputs must strictly respect a certain schema flexibility as in NoSQL) and relational nature of its data.

As a SQL (structured query language) it uses queries to obtain data via JOINS to join / conne

together.

Compared to NoSQL, SQL allows to automatically update data redundant in different p databases.



Postgre SQL

Postgre SQL is the second most popular RDBMS. It was initially released the 8 July 1996 and C. It is developped and owned by Owned by PostgreSQL Global Development Group.

It is used by many popular companies: Cisco, Apple, Skype...

MySQL is open-source and benefits from a very big community.

As a RDBMS it uses a strict schema model (data inputs must strictly respect a certain schema

flexibility as in NoSQL) and relational nature of its data.

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SQL Server

SQL Server is also a RDBMS. It was initially released the 2 April 1989 and written in C,C++ was developped and owned by Microsoft. It is used by many popular companies: EdgeWood College, Palo Alto University, University...

MySQL is a commercial solution (everything is licensed so must be purchased).

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Compared to NoSQL, SQL allows to automatically update data redundant in different p

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Open-source

Owned by Oracle

Scalable buffer pool to pull cache

Limited functionality regarding temporary tables to deal with CDmplex prDcesses

Organizes indexes into clusters and tables (not very flexible search)

BeiDngs to the Oracle Ecosystem (very large community)

Targeted tDall sizes of CDmpanJes

Flexible, co5t efficient and innovative

Open-sDL!rce
Owned byPostgreSQL Global
Development Group
Scalable buffer pool
to pull cache

More functi onaJity regarding temporary iables (divide tables 1nto localand global), Better with complex processes

R>ch automated functionality lot index management

Belongs to the Oracle ecDsy3tem (very large community)

Targeted tD all sizes of companies

Flexible, cost efficient and innovative

Licensed

Owned by Microsoft

Isolate processes as sepamte OS proceses

More functionality regarding temp t2bles (dividetables into loral a global), B+ti er with complex proce

Flexible search

Smaller community but MicrDs support team

Targe ted to large compa

ProfE•Ssional management to big bUsinesse.S