Wrap-Up

DBMS Ranking 2020

356 systems in ranking, June 2020

Rank			DBMS	Database Model	Score		
Jun 2020	May 2020	Jun 2019			Jun 2020	May 2020	Jun 2019
1.	1.	1.	Oracle ➕	Relational, Multi-model ℹ️	1343.59	-1.85	+44.37
2.	2.	2.	MySQL ➕	Relational, Multi-model ℹ️	1277.89	-4.75	+54.26
3.	3.	3.	Microsoft SQL Server ➕	Relational, Multi-model ℹ️	1067.31	-10.99	-20.45
4.	4.	4.	PostgreSQL ➕	Relational, Multi-model ℹ️	522.99	+8.19	+46.36
5.	5.	5.	MongoDB ➕	Document, Multi-model ℹ️	437.08	-1.92	+33.17
6.	6.	6.	IBM Db2 ➕	Relational, Multi-model ℹ️	161.81	-0.83	-10.39
7.	7.	7.	Elasticsearch ➕	Search engine, Multi-model ℹ️	149.69	+0.56	+0.86
8.	8.	8.	Redis ➕	Key-value, Multi-model ℹ️	145.64	+2.17	-0.48
9.	9.	⬆11.	SQLite ➕	Relational	124.82	+1.78	-0.07
10.	⬆11.	10.	Cassandra ➕	Wide column	119.01	-0.15	-6.17
11.	⬇10.	⬇9.	Microsoft Access	Relational	117.18	-2.72	-23.83
12.	12.	12.	MariaDB ➕	Relational, Multi-model ℹ️	89.79	-0.30	+4.59
13.	13.	13.	Splunk	Search engine	88.08	+0.33	+3.46
14.	14.	14.	Hive	Relational	78.65	-2.89	-0.40

Gartner Market Share Ranking
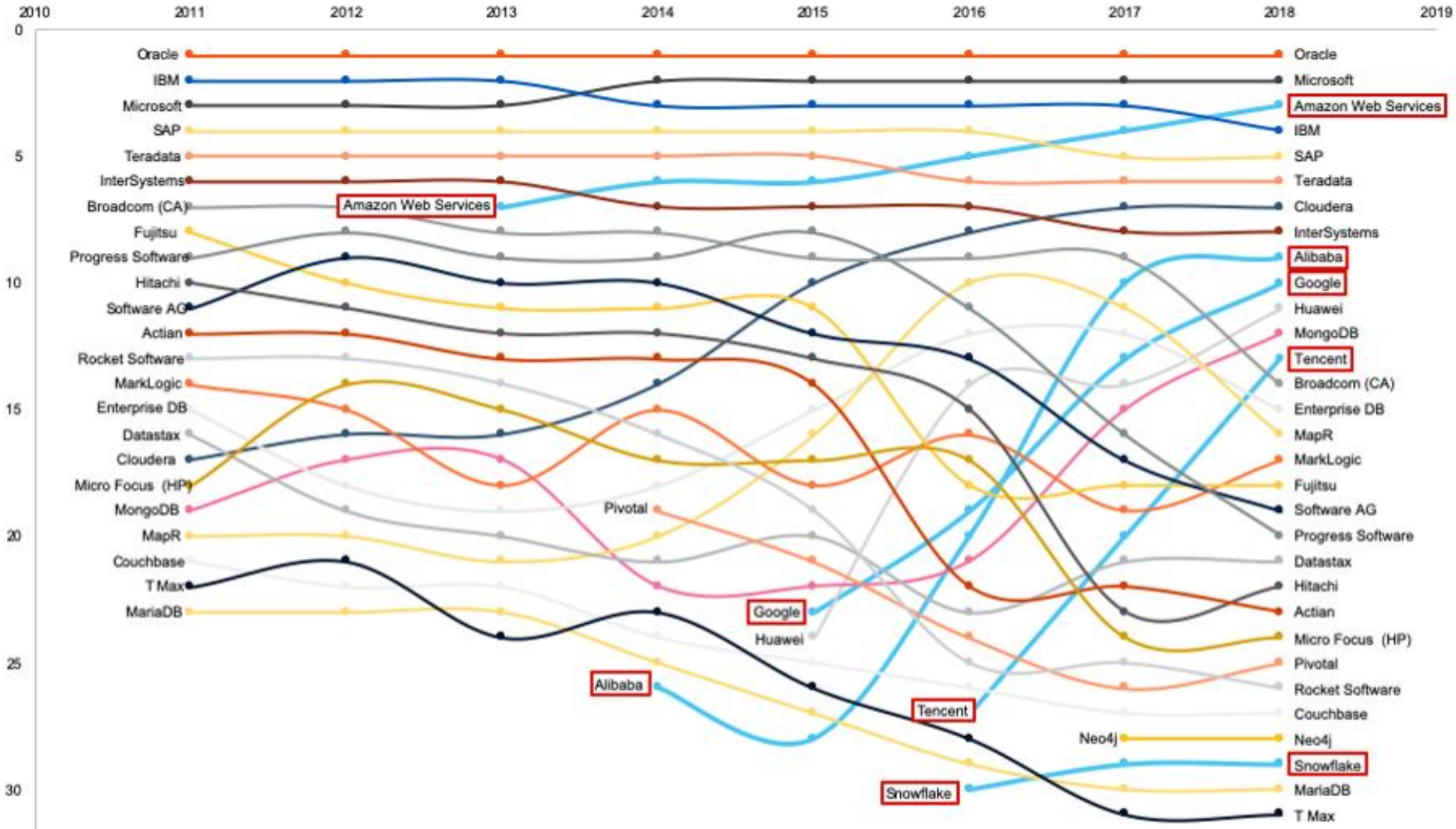
We Don't Need Databases Anymore?

- Big pic: *servicing large data sets to large, heterogeneous user groups*

- Information integration
    - Uniform data administration; concise information modelling

- Quality of service
    - Flexible QL; concurrent access; data independence

- Efficiency
    - scalability; reduced application development time

- Safety
    - Data integrity & security; Crash recovery

- *…they all are relevant more than ever!*

So, for the Future...

- DBs mature (in some sense)

  - Many systems, many different flavours but SQL std – today, a commodity

- New + diverse challenges arising with new applications (IoT !)

  - Leading to new technology responses – in particular: distributed processing tools

  - „no one size fits all"

  - Relevant for academic and industrial career…

- *...and for your individual career:*