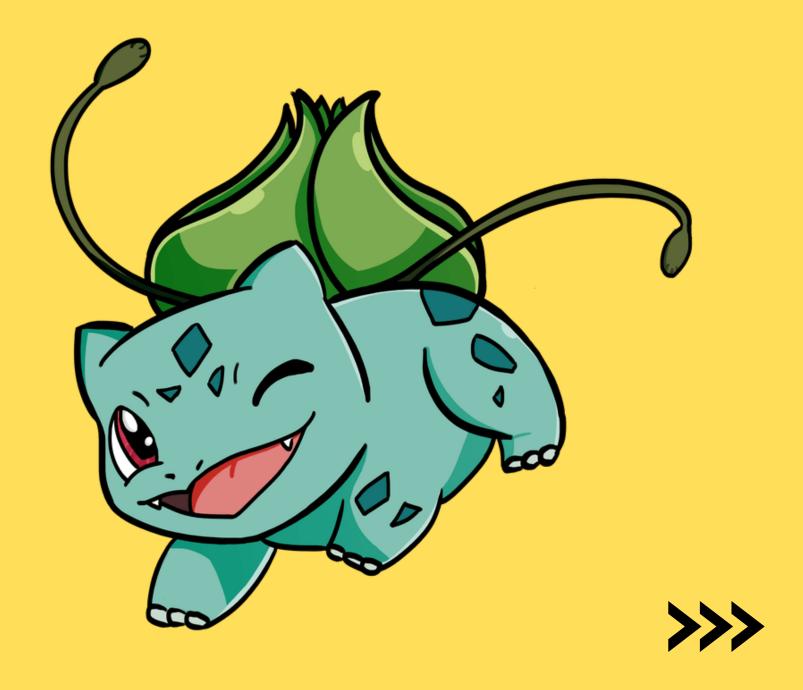
# DIFFERENCE BETWEEN SQL & NoSQL





## Relational Database Management System (RDBMS)



Non-Relational or Distributed Databases

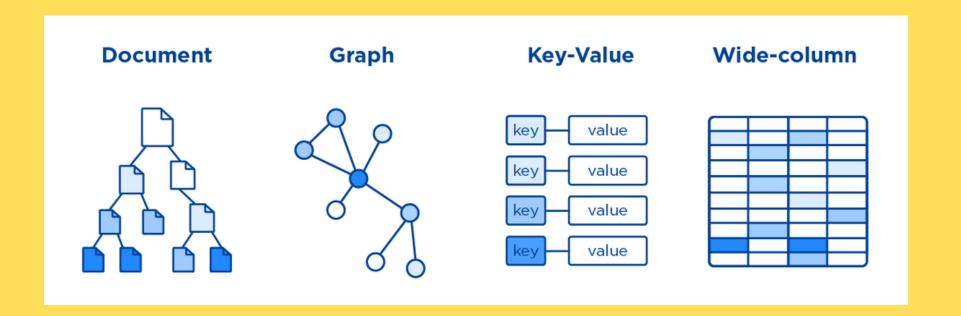


#### @Aakash Kanojiya

**Table: customers** 

customer_id	first_name	last_name	phone	country
1	John	Doe	817-646-8833	USA
2	Robert	Luna	412-862-0502	USA
3	David	Robinson	208-340-7906	UK
4	John	Reinhardt	307-242-6285	UK
5	Betty	Taylor	806-749-2958	UAE

#### **RDBMS Structure**



**NoSQL Structure** 





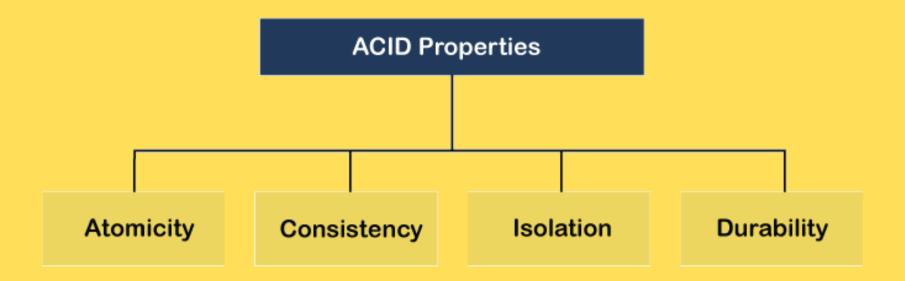
#### SQL follows ACID properties



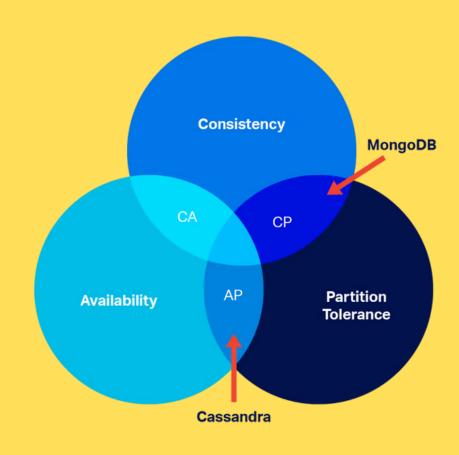
NoSQL follows Brewers CAP
Theorem



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#### **ACID Properties**



**CAP Theorem** 





## SQL uses Structured Query Language.



No Declarative Query Language





#### Fixed or Static Schema



Dynamic Schema





## Supports Complex Queries with joins.



Does not support Complex Queries.





#### Vertically Scalable



NoSQL databases can scale horizontally. i.e. you can add new servers along with the existing ones.

#### Horizontally Scalable





Popular SQL databases are Oracle, MySQL, Sybase, MSSQL, PostgreSQL etc.



Popular NoSQL databases are MongoDB, CouchDB, Redis, HBase, CassandraDB etc.



#### teradata.











**DATABASE** 









#### **SQL Databases**





















**NoSQL Databases** 

### Thanks for reading!

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