

VS



SQL

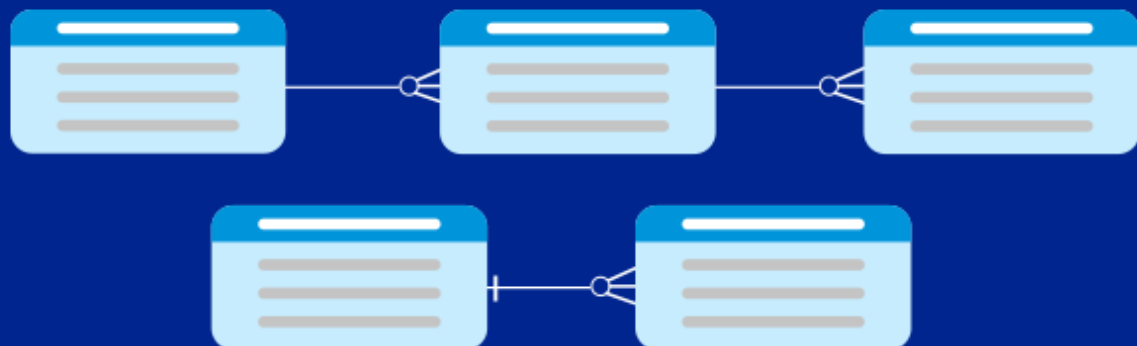
NoSQL

	SQL	NoSQL
Database Type	Relational Databases	Non-relational Databases / Distributed Databases
Structure	Table-based	<ul style="list-style-type: none"> • Key-value pairs • Document-based • Graph databases • Wide-column stores
Scalability	Designed for scaling up vertically by upgrading one expensive custom-built hardware	Designed for scaling out horizontally by using shards to distribute load across multiple commodity (inexpensive) hardware
Strength	<ul style="list-style-type: none"> • Great for highly structured data and don't anticipate changes to the database structure • Working with complex queries and reports 	<ul style="list-style-type: none"> • Pairs well with fast paced, agile development teams • Data consistency and integrity is not top priority • Expecting high transaction load

SQL vs NoSQL

SQL

Relational Database Management System (RDBMS)



NoSQL

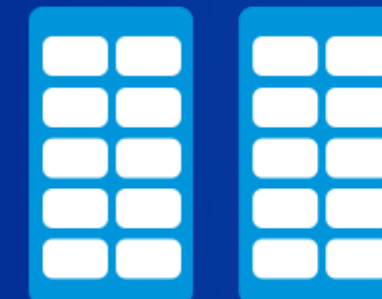
Key Value



Documents



Column Store





SQL



MONGODB



		
Data Schema	Fixed	Flexible
Primary database model	Relational DBMS	Document store
Licensing	Commercial	Open-source
Programming Language	C++	C++, Go, Python, JavaScript
Server operation systems	Windows	Solaris, Linux, OSX, Windows