

Data Base Systems

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Assignment: 03

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Question: 01

Explain the difference between SQL and NoSQL.

SQL	NoSQL
Stands for Structured Query Language	Stands for Not Only SQL
Relational Database Management System	Non-relational Database System
Data is stored in structured format like table.	Data can be stored in unstructured format like graph or document.
Supports complex joins and relationships	No joins or relationships, typically denormalized data
Limited scalability for large data	High scalability for large data
Less flexible with fixed schemas and rigid structure	More flexible with dynamic schemas and structure
Supports multi-row transactions	Limited or no support for multi-row transactions
Vertically scaled	Horizontally scaled
Strict schema enforcement	Flexible or schema-less
Relational data model	Diverse data model
Examples: MySQL, Oracle, PostgreSQL	Example: MongoDB, Cassandra, Redis

