

Introduction to Databases - Quiz

Answer questions based on the learning from today's session.

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* Indicates required question

Email *

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Which of the following is a key characteristic of a relational database? * 1 point

- ☐ Flexible schema
- ☐ Hierarchical data structure
- ☒ Data stored in tables with rows and columns
- ☐ Document-oriented storage



Batch *

Choose ▼

Which of the following best describes the "eventual consistency" principle in BASE? * 1 point

- ☐ Data is always consistent across all nodes
- ☐ System guarantees immediate consistency
- ☒ System may become consistent over time
- ☐ Ensures transactions are processed immediately

What does the term "schema flexibility" refer to in the context of NoSQL databases? * 1 point

- ☐ A fixed data structure
- ☐ The ability to scale out by adding more servers
- ☒ The ability to store data without a predefined schema
- ☐ Ensuring transactions are atomic



Your Full Name *

Your answer

In the context of relational databases, what is a foreign key? *

1 point

- ☐ A unique identifier for a record
- ☒ A key used to enforce referential integrity between tables
- ☐ A command to delete records
- ☐ A special type of index

In database terminology, what does the term "atomicity" refer to? *

1 point

- ☐ Data consistency across multiple transactions
- ☒ Each transaction being all-or-nothing
- ☐ The ability to scale the database horizontally
- ☐ Ensuring the database is always available



What is a database? *

1 point

- ☐ A collection of programs that manage data
- ☒ An organized collection of data, generally stored and accessed electronically
- ☐ A system that processes transactions
- ☐ A type of software for data analysis

What is the primary use case for key-value stores in NoSQL databases? *

1 point

- ☐ Managing complex relationships
- ☒ Storing JSON-like documents
- ☐ Real-time data processing and caching
- ☐ Running complex queries and joins

Your Roll Number *

Your answer



Which type of NoSQL database would be most suitable for an application that requires handling hierarchical data structures? * 1 point

- ☒ Key-value store
- ☐ Document store
- ☐ Column-family store
- ☐ Graph database

Which of the following is NOT a NoSQL database type? * 1 point

- ☐ Document store
- ☐ Column-family store
- ☐ Key-value store
- ☒ Relational store



What does SQL stand for? *

1 point

- ☒ Structured Query Language
- ☐ Simple Query Language
- ☐ Standard Query Language
- ☐ Sequential Query Language

Which of the following is an example of a document database? *

1 point

- ☐ MySQL
- ☒ CouchDB
- ☐ PostgreSQL
- ☐ Redis



Which NoSQL database type is most suitable for managing connections and relationships between data? * 1 point

- ☒ Key-value store
- ☐ Document store
- ☐ Column-family store
- ☐ Graph database

Which principle of ACID ensures that transactions do not interfere with each other? * 1 point

- ☐ Atomicity
- ☐ Consistency
- ☒ Isolation
- ☐ Durability



Which NoSQL database type is optimized for fast read and write operations?

* 1 point

- ☒ Document store
- ☐ Column-family store
- ☐ Key-value store
- ☐ Graph database

Which of the following best describes a column-family store? *

1 point

- ☐ A type of NoSQL database that stores data in key-value pairs
- ☒ A type of NoSQL database that stores data in columns rather than rows
- ☐ A relational database that uses rows and columns
- ☐ A database that stores data in JSON-like documents

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