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WEB 335 Introduction to NoSQL

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Discussion 2.1 – Relational Database Management System (RDBMS)

What are RDBMS?

RDBMS stands for Relational Database Management System, which is a type of database management system that stores data in tables related to each other. It is used to manage large datasets and has become an essential tool for many businesses and organizations.

What does the term relationships mean in RDBMS?

In RDBMS, relationships are used to connect different tables to each other. The relationships help to organize the data and make it easier to access and manipulate. The relationships can be different types, like one-to-one, one-to-many, or many-to-many, depending on how the tables are related.

What are primary keys?

Primary keys are unique identifiers used to identify each record in a table. They are used to make sure that each record is unique and can be easily accessed.

How are primary keys generated?

Primary keys can be generated automatically by the database management system, or the user can assign them manually.

What are foreign keys?

Foreign keys are used to connect one table to another table. They are used to enforce referential integrity, which means that data in one table must correspond to data in another table. Foreign keys are created by referencing the primary key of another table.

What is MySQL?

MySQL is a popular open-source RDBMS that many organizations and businesses use. It is a powerful tool that can handle large datasets and provide fast access to the data.

Identify at least one feature of MySQL and describe what it is and how it is used.

One feature of MySQL is its ability to handle transactions. Transactions make sure that a series of database operations are performed as a single unit of work. This helps to ensure data integrity and consistency.

References

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