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Web & Internet Programming

04/08/2024

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1. SQL stands for structured query language, and it is the standard language for database creation and manipulation. SQL allows users to retrieve, upload, and delete data in addition to creating and modifying database schemas. A relational database is a type of database that allows users to identify and access data in relation to another piece of data in the database. In relational databases represent data in tables, in which each row has a unique ID for that record. These unique identifiers can be used to create relationships between different tables in the database, indicating connections between the data points.

4. PDO stands for Php Data Objects. It creates a consistent interface for accessing databases in php. It allows developers to write portable code much easier and it offers a set of classes and methods that interact with databases regardless of the specific database being used. Prepared statements are SQL statements that are prepared by the database server. They must be used because they prevent against SQL hacks. SQL injection hacks are when a user tries to run malicious code in a database. Preparing statements will run escape functions on parameters that are about to be used, avoiding the SQL inject hack.