

Practice Quiz: Understanding JDBC

Practice Assignment • 10 min

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1. In JDBC, which component is used to execute SQL queries? 1 point

 - ☐ ResultSet
 - ☐ DriverManager
 - ☐ Connection
 - ☒ Statement

2. Why is connection pooling important in database interactions? 1 point

 - ☐ It allows applications to access multiple databases simultaneously
 - ☒ It reduces the overhead of creating and closing connections for each request
 - ☐ It provides a graphical interface for database management
 - ☐ It automatically generates SQL queries for the application

3. What is the purpose of using the 'try-with-resources' statement in JDBC? 1 point

 - ☐ To execute SQL queries
 - ☒ To automatically close resources and prevent resource leaks
 - ☐ To handle SQL exceptions more effectively
 - ☐ To establish a database connection

4. What is the role of connection pooling in JDBC? 1 point

 - ☒ To maintain a pool of reusable database connections
 - ☐ To manage user authentication
 - ☐ To compile SQL queries into Java code
 - ☐ To encrypt data sent to the database