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Questions

1. In the SQL expression '555-1) OR 725=(SELECT 725 FROM PG_SLEEP(15))--', what role does the 'PG_SLEEP(15)' function play?

A. It performs data encryption
B. It delays the response by 15 seconds
C. It creates a database backup
D. It optimizes query execution

2. What is a potential impact of an SQL injection attack on a vulnerable PostgreSQL database?

A. Unauthorized access to sensitive data
B. Database recovery mode activation
C. Immediate system shutdown
D. Initiation of a database cleaning process

3. In the context of SQL injection, what is the purpose of using a time delay function like 'SLEEP(15)' in a SQL query to bypass authentication?

A. It ensures data duplication
B. Aligns table joins
C. Introduces a time-based delay to test for database vulnerabilities
D. Bypasses authentication by forcing true conditions

4. What is a common defense mechanism against SQL injections?

A. Data masking strategies
B. Input validation and cleaning
C. Verbose error messages
D. Implementing network firewalls