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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