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Questions

1. What does the 'XOR' function in the given expression suggest in SQL context?

- A. XOR stands for 'execute on read', used to process delayed commands.
- B. XOR is a function to compare two dates and return the difference.
- C. XOR encrypts text within SQL queries.
- D. XOR is a logical operator used to evaluate true if one of the conditions is true.

2. Why is the use of 'if(now()=sysdate(),sleep(15),0)' significant in SQL injection attacks?

- A. It creates a temporary denial of service by halting database operations.
- B. It is used to delay execution based on a condition, helping deduce information.
- C. It checks system time to synchronize database events.
- D. It triggers a backup of the database at specific intervals.

3. What could be a potential risk of using 'sysdate()' in SQL queries without validation? [Topic: SQL and System Security]

- A. It enables reading from an unauthorized system data cache.
- B. It could lead to unwanted system resource allocation.
- C. It can lead to exposure of system time information, aiding timing attacks.
- D. It might automatically alter time-sensitive data entries.

4. Which strategy can help mitigate the risk of SQL injection attacks, particularly those using functions like 'sleep(15)'?

- A. Implementing input validation and using prepared statements.
- B. Utilizing dynamic SQL to improve query efficiency.
- C. Encrypting database traffic using SSL/TLS.
- D. Increasing server hardware capabilities to handle more processes.