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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.