--Question Starting--

3. Given the following statements:

Statement I: In SQL, a view is a virtual table that is based on a SQL query and does not store data physically.

Statement II: Stored procedures in SQL can encapsulate multiple SQL statements and are executed on the server side to improve performance and security.

In the context of the above statements, select the most appropriate option:

(1) Both Statement I and Statement II are correct

(2) Both Statement I and Statement II are incorrect

(3) Statement I is correct but Statement II is incorrect

(4) Statement I is incorrect but Statement II is correct

Answer Key: 3

Solution:

? Statement I(Correct): Views are virtual tables derived from underlying tables via SQL queries; they do not store data themselves but display data dynamically.

? Statement II(Correct): Stored procedures are precompiled SQL code blocks stored on the server, which can execute multiple statements efficiently, enhancing performance and security.

Hence, Option (3) is the right answer.