

Database Questions and Answers – Transactions as SQL Statements

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This set of Basic Database Questions and Answers focuses on “Transactions as SQL Statements”.

1. Which of the following is not a property of transactions?

- a) Atomicity
- b) Concurrency
- c) Isolation
- d) Durability

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Answer: d

Explanation: ACID properties are the properties of transactions.



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2. SNAPSHOT is used for (DBA)

- a) Synonym
- b) Tablespace
- c) System server
- d) Dynamic data replication

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Answer: d

Explanation: Snapshot gets the instance of the database at that time.

3. Isolation of the transactions is ensured by

- a) Transaction management
- b) Application programmer
- c) Concurrency control
- d) Recovery management

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Answer: c

Explanation: ACID properties are the properties of transactions.

4. Constraint checking can be disabled in existing _____ and _____ constraints so that any data you modify or add to the table is not checked against the constraint.

- a) CHECK, FOREIGN KEY
- b) DELETE, FOREIGN KEY
- c) CHECK, PRIMARY KEY
- d) PRIMARY KEY, FOREIGN KEY

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Answer: a

Explanation: Check and foreign constraints are used to constraint the table data.

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5. Problems occurs if we don't implement a proper locking strategy

- a) Dirty reads
- b) Phantom reads
- c) Lost updates
- d) Unrepeatable reads

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Answer: d

Explanation: In a concurrent execution of these transactions, it is intuitively clear that they conflict, but this is a conflict not captured by our simple model. This situation is referred to as the phantom phenomenon, because a conflict may exist on "phantom" data.

6. Which of the following fixed database roles can add or remove user IDs?

- a) db_accessadmin
- b) db_securityadmin
- c) db_setupadmin
- d) db_sysadmin

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Answer: a

Explanation: The database can be accessed by assigning the roles.

7. By default sql server has _____ isolation level

- a) READ COMMITTED
- b) READ UNCOMMITTED
- c) SERIALIZABLE
- d) REPEATABLE READ

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Answer: a

Explanation: Read committed is used to commit the default read operation.

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8. Which of the following statements is/are not true for SQL profiler?

- a) Enables you to monitor events
- b) Check if rows are being inserted properly
- c) Check the performance of a stored procedure
- d) ALL of the mentioned

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Answer: c

Explanation: Read committed is used to commit the default read operation.

9. Which of the following is the original purpose of SQL?

- a) To specify the syntax and semantics of SQL data definition language
- b) To specify the syntax and semantics of SQL manipulation language
- c) To define the data structures

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d) All of the mentioned

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Answer: d

Explanation: Read committed is used to commit the default read operation.

10. SQL can be used to:

- a) Create database structures only
- b) Query database data only
- c) Modify database data only
- d) All of the mentioned

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Answer: d

Explanation: In a concurrent execution of these transactions, it is intuitively clear that they conflict, but this is a conflict not captured by our simple model. This situation is referred to as the phantom phenomenon, because a conflict may exist on “phantom” data.

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