

Database Questions and Answers - Deadlocks

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This set of Database Multiple Choice Questions & Answers (MCQs) focuses on "Deadlocks".
1. A system is in a _____ state if there exists a set of transactions such that every transaction in the set is waiting for another transaction in the set.
a) Idle
b) Waiting
c) Deadlock
d) Ready
View Answer
Answer: c
Explanation: When one data item is waiting for another data item in a transaction then system is

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in deadlock.

- 2. The deadlock state can be changed back to stable state by using _____ statement.
- a) Commit
- b) Rollback
- c) Savepoint
- d) Deadlock

View Answer

Answer: b

Explanation: Rollback is used to rollback to the point before lock is obtained.

- 3. What are the ways of dealing with deadlock?
- a) Deadlock prevention
- b) Deadlock recovery
- c) Deadlock detection
- d) All of the mentioned

View Answer

Answer: d

Explanation: Deadlock prevention is also called as deadlock recovery. Prevention is commonly used if the probability that the system would enter a deadlock state is relatively high; otherwise, detection and recovery are more efficient.

- 4. When transaction Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp smaller than that of Tj (that is, Ti is older than Tj). Otherwise, Ti is rolled back (dies). This is
- a) Wait-die
- b) Wait-wound
- c) Wound-wait

d) Wait

View Answer

Answer: a

Explanation: The wait-die scheme is a non-preemptive technique.

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- 5. When transaction Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp larger than that of Tj (that is, Ti is younger than Tj). Otherwise, Tj is rolled back (Tj is wounded by Ti). This is
- a) Wait-die
- b) Wait-wound
- c) Wound-wait
- d) Wait

View Answer

Answer: c

Explanation: The wound–wait scheme is a preemptive technique. It is a counterpart to the wait–die scheme.

- 6. The situation where the lock waits only for a specified amount of time for another lock to be released is
- a) Lock timeout
- b) Wait-wound
- c) Timeout

d) Wait

View Answer

Answer: a

Explanation: The timeout scheme is particularly easy to implement, and works well if transactions are short and if longwaits are likely to be due to deadlocks.

- 7. The deadlock in a set of a transaction can be determined by
- a) Read-only graph
- b) Wait graph
- c) Wait-for graph
- d) All of the mentioned

View Answer

Answer: a

Explanation: Each transaction involved in the cycle is said to be deadlocked.

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- 8. A deadlock exists in the system if and only if the wait-for graph contains a ______
- a) Cycle
- b) Direction
- c) Bi-direction
- d) Rotation

View Answer

Answer: a

Explanation: Each transaction involved in the cycle is said to be deadlocked.

- 9. Selecting the victim to be rollbacked to the previous state is determined by the minimum cost. The factors determining cost of rollback is
- a) How long the transaction has computed, and how much longer the transaction will compute before it completes its designated task
- b) How many data items the transaction has used
- c) How many more data items the transaction needs for it to complete
- d) All of the mentioned

View Answer

Answer: d

Explanation: We should roll back those transactions that will incur the minimum cost.

10. _____ rollback requires the system to maintain additional information about the state of all the running transactions.

- a) Total
- b) Partial
- c) Time
- d) Commit

View Answer

Answer: b

Explanation: In total rollback abort the transaction and then restart it.

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