

W05 Quiz: Chapter 5

Due Oct 15 at 11:59pm

Points 25

Questions 10

Available Oct 1 at 12am - Dec 14 at 11:59pm

Time Limit None

Allowed Attempts 2

Instructions

Task: Take a quiz on Chapter 5: Replication from the textbook.

Purpose: This will give you an opportunity to ponder and practice what you have learned.

Notes

- You are given two attempts to achieve your best score, but your second attempt may not have the same questions as your first attempt.
- This quiz is open book.

Testing Topics:

- Replication - leaders and followers.
- Problems with Replication Lag.
- Multi-Leader Replication.
- Leaderless Replication.

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	17 minutes	19.38 out of 25

⚠️ Correct answers will be available on Oct 16 at 12am.

Score for this attempt: **19.38** out of 25

Submitted Oct 11 at 7:48pm

This attempt took 17 minutes.

Partial	Question 1	1.88 / 2.5 pts
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Which of the following dwell in the Leaderless Replication? (More than one answer may apply)

☒ Riak

☒ Cassandra

☒ CRDTs

☒ Voldemort

☒ Quorum DB

Question 2

2.5 / 2.5 pts

Which of the following dwell in the land of Single-Leader Replication? (More than one answer may apply)

☒ Oracle

☒ PostgreSQL

☒ SQL Server

☒ MySQL

☒ RethinkDB

Incorrect

Question 3

0 / 2.5 pts

Which word describes the process of a follower becoming a leader?

- ☐ Synchronous replication
- ☐ Asynchronous replication
- ☐ Failover
- ☒ Replication

Question 4

2.5 / 2.5 pts

Which of the following are valid topologies for multi-leader replication?
(More than one answer may apply)

- ☐ B-Tree
- ☒ Circular
- ☒ Star
- ☐ Snowflake
- ☒ All-to-all

Incorrect

Question 5

0 / 2.5 pts

While more complex, multi-leader replication can solve failover problems because each leader is a follower of the other leader.

☐ True

☒ False

Question 6

2.5 / 2.5 pts

In a failure of the connection between a follower and leader, the follower can catch up by reading the log files.

☒ True

☐ False

Question 7

2.5 / 2.5 pts

Statement-based replication synchronizes RPC communications rather than using log files.

☐ True

☒ False

Question 8

2.5 / 2.5 pts

Synchronous replication guarantees you write to the replica.

☒ True

☐ False

Question 9

2.5 / 2.5 pts

While leader-based replication doesn't guarantee durability, it enables leaders to continue processing writes.

☒ True

☐ False

Question 10

2.5 / 2.5 pts

Trigger-based replication typically has less overhead than the alternatives.

☐ True

☒ False

Quiz Score: **19.38** out of 25