Quiz 7 | Redis streams in production

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83%

You got 5 out of 6 points.

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⊘ Correct!

1 You run **XPENDING** and discover that one of your consumers, consumer A, has one pending message. In which of the following circumstances might you use **XCLAIM** to claim that message for another consumer?

Choose **one** answer.

✓ ◯ Consumer A has been idle for 100,000 ms and the delivery counter shows a value of 1 and a time-since-delivery of 100,000 ms

◯ Consumer A has an idle time of 1 ms.

◯ The delivery counter shows a value of 1 and a time-since-delivery of 10 ms

◯ Consumer A has been idle for 1 ms and the delivery counter shows a value of 1001 and a time-since-delivery of 1 ms

⊘ Correct!

2 Suppose you run the following command:

XCLAIM numbers primes B 10000 123-0

Under what conditions will the message **123-0** be claimed for consumer B?

Choose **two** answers.

☐ Consumer B exists

✓ ☑ Message 123-0 exists in a consumer's PEL

☐ Message 123-0 has a time-since-delivery < 10000 ms

✓ ☑ Message 123-0 has a time-since-delivery >= 10000 ms

⊘ Correct!

3 Suppose you have a stream containing minute-by-minute temperature measurements for the last year. That's 60 x 24 x 365 = 525,600 messages. You then run the following command:

XRANGE measurements - +

What's the potential problem with running this?

Choose **one** answer.

○ XRANGE will abort if it takes more than 60 seconds to complete.

✓ ○ An XRANGE command that returns 525,600 messages may block the Redis server for a long time.

○ The command will result in an error because it requires a COUNT.

○ There's no problem because XRANGE has constant time performance

⊘ Correct!

4 What does the Redis **MEMORY USAGE** command do?

Choose **one** answer.

○ It returns the total amount of memory used by the Redis server

✓ ○ It returns the number of bytes used by the specified Redis data structure

○ It returns a table showing which Redis data structures, in general, are the most memory-efficient

○ It returns a set of histograms showing memory usage by data structure type on the current server

⊘ Correct!

5 You need to store a continuously streaming dataset in Redis 5. Each message needs to be preserved for one month after creation, but no longer than that.

Which of the following techniques or commands can you use to manage the memory needed to store the dataset?

Choose **one** answer.

○ XADD with MAXLEN

○ XTRIM with MAXLEN

○ XDEL

✓ ○ Use multiple stream partitions and EXPIRE

ⓧ Incorrect

6 You have a stream containing audio recordings and a cluster of microservices that can classify these audio recordings based on their background noise.

You want to share out this work, processing 100 messages at a time, and you don't know in advance how long it will take to process each message. The audio recordings in the messages are completely independent from each other, so can be processed in any order.

Which is the best stream consumption strategy for this use case?

Choose **one** answer

✓ ○ XREADGROUP with XACK

○ XRANGE, saving the last-processed-id using SET

✕ ○ XREAD, saving the last-processed-id using SET

○ XREVRANGE, saving the last-processed-id using SET

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