

# PROFESSIONAL-CLOUD-DATABASE-ENGINEER<sup>Q&As</sup>

Google Cloud Certified - Professional Cloud Database Engineer

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## QUESTION 1

You use Python scripts to generate weekly SQL reports to assess the state of your databases and determine whether you need to reorganize tables or run statistics. You want to automate this report but need to minimize operational costs and overhead. What should you do?

- A. Create a VM in Compute Engine, and run a cron job.
- B. Create a Cloud Composer instance, and create a directed acyclic graph (DAG).
- C. Create a Cloud Function, and call the Cloud Function using Cloud Scheduler.
- D. Create a Cloud Function, and call the Cloud Function from a Cloud Tasks queue.

Correct Answer: C

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## QUESTION 2

You plan to use Database Migration Service to migrate data from a PostgreSQL on-premises instance to Cloud SQL. You need to identify the prerequisites for creating and automating the task. What should you do? (Choose two.)

- A. Drop or disable all users except database administration users.
- B. Disable all foreign key constraints on the source PostgreSQL database.
- C. Ensure that all PostgreSQL tables have a primary key.
- D. Shut down the database before the Data Migration Service task is started.
- E. Ensure that pglogical is installed on the source PostgreSQL database.

Correct Answer: BE

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## QUESTION 3

Your retail organization is preparing for the holiday season. Use of catalog services is increasing, and your DevOps team is supporting the Cloud SQL databases that power a microservices-based application. The DevOps team has added instrumentation through Sqlcommenter. You need to identify the root cause of why certain microservice calls are failing. What should you do?

- A. Watch Query Insights for long running queries.
- B. Watch the Cloud SQL instance monitor for CPU utilization metrics.
- C. Watch the Cloud SQL recommenders for overprovisioned instances.
- D. Watch Cloud Trace for application requests that are failing.

Correct Answer: A

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## QUESTION 4

Your team recently released a new version of a highly consumed application to accommodate additional user traffic. Shortly after the release, you received an alert from your production monitoring team that there is consistently high replication lag between your primary instance and the read replicas of your Cloud SQL for MySQL instances. You need to resolve the replication lag. What should you do?

- A. Identify and optimize slow running queries, or set parallel replication flags.
- B. Stop all running queries, and re-create the replicas.
- C. Edit the primary instance to upgrade to a larger disk, and increase vCPU count.
- D. Edit the primary instance to add additional memory.

Correct Answer: C

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## QUESTION 5

You are using Compute Engine on Google Cloud and your data center to manage a set of MySQL databases in a hybrid configuration. You need to create replicas to scale reads and to offload part of the management operation. What should you do?

- A. Use external server replication.
- B. Use Data Migration Service.
- C. Use Cloud SQL for MySQL external replica.
- D. Use the mysqldump utility and binary logs.

Correct Answer: B

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