

Google GCP-CDE

Cloud Database Engineer

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Question: 1

Your company uses Cloud Spanner for a mission-critical inventory management system that is globally available. You recently loaded stock keeping unit (SKU) and product catalog data from a company acquisition and observed hot-spots in the Cloud Spanner database. You want to follow Google-recommended schema design practices to avoid performance degradation. What should you do? (Choose two.)

- A. Use an auto-incrementing value as the primary key.
- B. Normalize the data model.
- C. Promote low-cardinality attributes in multi-attribute primary keys.
- D. Promote high-cardinality attributes in multi-attribute primary keys.
- E. Use bit-reverse sequential value as the primary key.

Answer: D,E

Question: 3

You need to provision several hundred Cloud SQL for MySQL instances for multiple project teams over a one-week period. You must ensure that all instances adhere to company standards such as instance naming conventions, database flags, and tags. What should you do?

- A. Automate instance creation by writing a Dataflow job.
- B. Automate instance creation by setting up Terraform scripts.
- C. Create the instances using the Google Cloud Console UI.
- D. Create clones from a template Cloud SQL instance.

Answer: B

Question: 2

Your organization has an existing app that just went viral. The app uses a Cloud SQL for MySQL backend database that is experiencing slow disk performance while using hard disk drives (HDDs). You need to improve performance and reduce disk I/O wait times. What should you do?

- A. Export the data from the existing instance, and import the data into a new instance with solid-state drives (SSDs).
- B. Edit the instance to change the storage type from HDD to SSD.
- C. Create a high availability (HA) failover instance with SSDs, and perform a failover to the new instance.

D. Create a read replica of the instance with SSDs, and perform a failover to the new instance

Answer: A

Question: 4

Your company wants to migrate its MySQL, PostgreSQL, and Microsoft SQL Server on- premises databases to Google Cloud. You need a solution that provides near-zero downtime, requires no application changes, and supports change data capture (CDC). What should you do?

- A. Use the native export and import functionality of the source database.
- B. Create a database on Google Cloud, and use database links to perform the migration.
- C. Create a database on Google Cloud, and use Dataflow for database migration.
- D. Use Database Migration Service.

Answer: D

Question: 5

You are evaluating Cloud SQL for PostgreSQL as a possible destination for your on- premises PostgreSQL instances. Geography is becoming increasingly relevant to customer privacy worldwide. Your solution must support data residency requirements and include a strategy to: configure where data is stored control where the encryption keys are stored govern the access to data
What should you do?

- A. Replicate Cloud SQL databases across different zones.
- B. Create a Cloud SQL for PostgreSQL instance on Google Cloud for the data that does not need to adhere to data residency requirement
- C. Keep the data that must adhere to data residency requirements on-premise
- D. Make application changes to support both databases.
- E. Allow application access to data only if the users are in the same region as the Google Cloud region for the Cloud SQL for PostgreSQL database.
- F. Use features like customer-managed encryption keys (CMEK), VPC Service Controls, and Identity and Access Management (IAM) policies.

Answer: D

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