

PROFESSIONAL-CLOUD-DATABASE- ENGINEER^{Q&As}

Google Cloud Certified - Professional 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.

Correct Answer: AD

QUESTION 2

You are troubleshooting a connection issue with a newly deployed Cloud SQL instance on Google Cloud. While investigating the Cloud SQL Proxy logs, you see the message Error 403: Access Not Configured. What should you do?

- A. Check the app.yaml value `cloud_sql_instances` for a misspelled or incorrect instance connection name.
- B. Check whether your service account has `cloudsql.instances.connect` permission.
- C. Enable the Cloud SQL Admin API.
- D. Ensure that you are using an external (public) IP address interface.

Correct Answer: A

QUESTION 3

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 requirements. Keep the data that must adhere to data residency requirements on-premises. Make application changes to support both databases.
- C. 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.

D. Use features like customer-managed encryption keys (CMEK), VPC Service Controls, and Identity and Access Management (IAM) policies.

Correct Answer: C

QUESTION 4

Your customer is running a MySQL database on-premises with read replicas. The nightly incremental backups are expensive and add maintenance overhead. You want to follow Google-recommended practices to migrate the database to Google Cloud, and you need to ensure minimal downtime. What should you do?

- A. Create a Google Kubernetes Engine (GKE) cluster, install MySQL on the cluster, and then import the dump file.
- B. Use the mysqldump utility to take a backup of the existing on-premises database, and then import it into Cloud SQL.
- C. Create a Compute Engine VM, install MySQL on the VM, and then import the dump file.
- D. Create an external replica, and use Cloud SQL to synchronize the data to the replica.

Correct Answer: B

QUESTION 5

You are migrating a telehealth care company's on-premises data center to Google Cloud. The migration plan specifies:

PostgreSQL databases must be migrated to a multi-region backup configuration with cross-region replicas to allow restore and failover in multiple scenarios. MySQL databases handle personally identifiable information (PII) and require data residency compliance at the regional level.

You want to set up the environment with minimal administrative effort. What should you do?

- A. Set up Cloud Logging and Cloud Monitoring with Cloud Functions to send an alert every time a new database instance is created, and manually validate the region.
- B. Set up different organizations for each database type, and apply policy constraints at the organization level.
- C. Set up Pub/Sub to ingest data from Cloud Logging, send an alert every time a new database instance is created, and manually validate the region.
- D. Set up different projects for PostgreSQL and MySQL databases, and apply organizational policy constraints at a project level.

Correct Answer: B

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