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**QUESTION 1**

You are configuring a brand new Cloud SQL for PostgreSQL database instance in Google Cloud. Your application team wants you to deploy one primary instance, one standby instance, and one read replica instance. You need to ensure that you are following Google- recommended practices for high availability. What should you do?

- A. Configure the primary instance in zone A, the standby instance in zone C, and the read replica in zone B, all in the same region.
- B. Configure the primary and standby instances in zone A and the read replica in zone B, all in the same region.
- C. Configure the primary instance in one region, the standby instance in a second region, and the read replica in a third region.
- D. Configure the primary, standby, and read replica instances in zone A, all in the same region.

Correct Answer: B

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**QUESTION 2**

Your company is migrating their MySQL database to Cloud SQL and cannot afford any planned downtime during the month of December. The company is also concerned with cost, so you need the most cost-effective solution. What should you do?

- A. Open a support ticket in Google Cloud to prevent any maintenance in that MySQL instance during the month of December.
- B. Use Cloud SQL maintenance settings to prevent any maintenance during the month of December.
- C. Create MySQL read replicas in different zones so that, if any downtime occurs, the read replicas will act as the primary instance during the month of December.
- D. Create a MySQL regional instance so that, if any downtime occurs, the standby instance will act as the primary instance during the month of December.

Correct Answer: B

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**QUESTION 3**

Your organization has a ticketing system that needs an online marketing analytics and reporting application. You need to select a relational database that can manage hundreds of terabytes of data to support this new application. Which database should you use?

- A. Cloud SQL
- B. BigQuery
- C. Cloud Spanner
- D. Bigtable

Correct Answer: B

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## QUESTION 4

You are configuring the networking of a Cloud SQL instance. The only application that connects to this database resides on a Compute Engine VM in the same project as the Cloud SQL instance. The VM and the Cloud SQL instance both use the same VPC network, and both have an external (public) IP address and an internal (private) IP address. You want to improve network security. What should you do?

- A. Disable and remove the internal IP address assignment.
- B. Disable both the external IP address and the internal IP address, and instead rely on Private Google Access.
- C. Specify an authorized network with the CIDR range of the VM.
- D. Disable and remove the external IP address assignment.

Correct Answer: B

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## QUESTION 5

You are building an application that allows users to customize their website and mobile experiences. The application will capture user information and preferences. User profiles have a dynamic schema, and users can add or delete information from their profile. You need to ensure that user changes automatically trigger updates to your downstream BigQuery data warehouse. What should you do?

- A. Store your data in Bigtable, and use the user identifier as the key. Use one column family to store user profile data, and use another column family to store user preferences.
- B. Use Cloud SQL, and create different tables for user profile data and user preferences from your recommendations model. Use SQL to join the user profile data and preferences
- C. Use Firestore in Native mode, and store user profile data as a document. Update the user profile with preferences specific to that user and use the user identifier to query.
- D. Use Firestore in Datastore mode, and store user profile data as a document. Update the user profile with preferences specific to that user and use the user identifier to query.

Correct Answer: A

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## QUESTION 6

You are designing a highly available (HA) Cloud SQL for PostgreSQL instance that will be used by 100 databases. Each database contains 80 tables that were migrated from your on-premises environment to Google Cloud. The applications that use these databases are located in multiple regions in the US, and you need to ensure that read and write operations have low latency. What should you do?

- A. Deploy 2 Cloud SQL instances in the us-central1 region with HA enabled, and create read replicas in us-east1 and us-west1.
- B. Deploy 2 Cloud SQL instances in the us-central1 region, and create read replicas in us-east1 and us-west1.

C. Deploy 4 Cloud SQL instances in the us-central1 region with HA enabled, and create read replicas in us-central1, us-east1, and us-west1.

D. Deploy 4 Cloud SQL instances in the us-central1 region, and create read replicas in us-central1, us-east1 and us-west1.

Correct Answer: B

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### QUESTION 7

Your organization works with sensitive data that requires you to manage your own encryption keys. You are working on a project that stores that data in a Cloud SQL database. You need to ensure that stored data is encrypted with your keys. What should you do?

A. Export data periodically to a Cloud Storage bucket protected by Customer-Supplied Encryption Keys.

B. Use Cloud SQL Auth proxy.

C. Connect to Cloud SQL using a connection that has SSL encryption.

D. Use customer-managed encryption keys with Cloud SQL.

Correct Answer: C

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### QUESTION 8

Your organization deployed a new version of a critical application that uses Cloud SQL for MySQL with high availability (HA) and binary logging enabled to store transactional information. The latest release of the application had an error that caused massive data corruption in your Cloud SQL for MySQL database. You need to minimize data loss. What should you do?

A. Open the Google Cloud Console, navigate to SQL > Backups, and select the last version of the automated backup before the corruption.

B. Reload the Cloud SQL for MySQL database using the LOAD DATA command to load data from CSV files that were used to initialize the instance.

C. Perform a point-in-time recovery of your Cloud SQL for MySQL database, selecting a date and time before the data was corrupted.

D. Fail over to the Cloud SQL for MySQL HA instance. Use that instance to recover the transactions that occurred before the corruption.

Correct Answer: B

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### QUESTION 9

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.

Correct Answer: B

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**QUESTION 10**

You are running an instance of Cloud Spanner as the backend of your ecommerce website. You learn that the quality assurance (QA) team has doubled the number of their test cases. You need to create a copy of your Cloud Spanner database in a new test environment to accommodate the additional test cases. You want to follow Google-recommended practices. What should you do?

- A. Use Cloud Functions to run the export in Avro format.
- B. Use Cloud Functions to run the export in text format.
- C. Use Dataflow to run the export in Avro format.
- D. Use Dataflow to run the export in text format.

Correct Answer: C

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**QUESTION 11**

Your customer has a global chat application that uses a multi-regional Cloud Spanner instance. The application has recently experienced degraded performance after a new version of the application was launched. Your customer asked you for assistance. During initial troubleshooting, you observed high read latency. What should you do?

- A. Use query parameters to speed up frequently executed queries.
- B. Change the Cloud Spanner configuration from multi-region to single region.
- C. Use SQL statements to analyze SPANNER\_SYS.READ\_STATS\* tables.
- D. Use SQL statements to analyze SPANNER\_SYS.QUERY\_STATS\* tables.

Correct Answer: B

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**QUESTION 12**

Your organization has hundreds of Cloud SQL for MySQL instances. You want to follow Google-recommended practices to optimize platform costs. What should you do?

- A. Use Query Insights to identify idle instances.

- B. Remove inactive user accounts.
- C. Run the Recommender API to identify overprovisioned instances.
- D. Build indexes on heavily accessed tables.

Correct Answer: C

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**QUESTION 13**

You have a large Cloud SQL for PostgreSQL instance. The database instance is not mission-critical, and you want to minimize operational costs. What should you do to lower the cost of backups in this environment?

- A. Set the automated backups to occur every other day to lower the frequency of backups.
- B. Change the storage tier of the automated backups from solid-state drive (SSD) to hard disk drive (HDD).
- C. Select a different region to store your backups.
- D. Reduce the number of automated backups that are retained to two (2).

Correct Answer: A

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**QUESTION 14**

You are designing a database architecture for a global application that stores information about public parks worldwide. The application uses the database for read-only purposes, and a centralized batch job updates the database nightly. You want to select an open source, SQL-compliant database. What should you do?

- A. Use Bigtable with multi-region clusters.
- B. Use Memorystore for Redis with multi-zones within a region.
- C. Use Cloud SQL for PostgreSQL with cross-region replicas.
- D. Use Cloud Spanner with multi-region configuration.

Correct Answer: C

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**QUESTION 15**

Your organization stores marketing data such as customer preferences and purchase history on Bigtable. The consumers of this database are predominantly data analysts and operations users. You receive a service ticket from the database operations department citing poor database performance between 9 AM-10 AM every day. The application team has confirmed no latency from their logs. A new cohort of pilot users that is testing a dataset loaded from a third-party data provider is experiencing poor database performance. Other users are not affected. You need to troubleshoot the issue. What should you do?

- A. Isolate the data analysts and operations user groups to use different Bigtable instances.
- B. Check the Cloud Monitoring table/bytes\_used metric from Bigtable.

- C. Use Key Visualizer for Bigtable.
- D. Add more nodes to the Bigtable cluster.

Correct Answer: B

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