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QUESTION 1

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

<https://cloud.google.com/spanner/docs/import-export-overview#file-format>

QUESTION 2

Your team is building a new inventory management application that will require read and write database instances in multiple Google Cloud regions around the globe. Your database solution requires 99.99% availability and global transactional consistency. You need a fully managed backend relational database to store inventory changes. What should you do?

- A. Use Bigtable.
- B. Use Firestore.
- C. Use Cloud SQL for MySQL
- D. Use Cloud Spanner.

Correct Answer: D

Spanner covers the SLA

QUESTION 3

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

The Cloud SQL overprovisioned instance recommender helps you detect instances that are unnecessarily large for a given workload. It then provides recommendations on how to resize such instances and reduce cost. This page describes how this recommender works and how to use it.

QUESTION 4

You need to migrate existing databases from Microsoft SQL Server 2016 Standard Edition on a single Windows Server 2019 Datacenter Edition to a single Cloud SQL for SQL Server instance. During the discovery phase of your project, you notice that your on-premises server peaks at around 25,000 read IOPS. You need to ensure that your Cloud SQL instance is sized appropriately to maximize read performance. What should you do?

- A. Create a SQL Server 2019 Standard on Standard machine type with 4 vCPUs, 15 GB of RAM, and 800 GB of solid-state drive (SSD).
- B. Create a SQL Server 2019 Standard on High Memory machine type with at least 16 vCPUs, 104 GB of RAM, and 200 GB of SSD.
- C. Create a SQL Server 2019 Standard on High Memory machine type with 16 vCPUs, 104 GB of RAM, and 4 TB of SSD.
- D. Create a SQL Server 2019 Enterprise on High Memory machine type with 16 vCPUs, 104 GB of RAM, and 500 GB of SSD.

Correct Answer: C

Given that Google SSD performance is related to the size of the disk in an order of 30 IOPS for each GB, it would require at least 833 GB to handle 25000 IOPS, the only answer that exceeds this value is C.

<https://cloud.google.com/compute/docs/disks/performance>

QUESTION 5

Your organization has a busy transactional Cloud SQL for MySQL instance. Your analytics team needs access to the data so they can build monthly sales reports. You need to provide data access to the analytics team without adversely affecting performance. What should you do?

- A. Create a read replica of the database, provide the database IP address, username, and password to the analytics team, and grant read access to required tables to the team.
- B. Create a read replica of the database, enable the `cloudsql.iam_authentication` flag on the replica, and grant read access to required tables to the analytics team.
- C. Enable the `cloudsql.iam_authentication` flag on the primary database instance, and grant read access to required tables to the analytics team.
- D. Provide the database IP address, username, and password of the primary database instance to the analytics team, and grant read access to required tables to the team.

Correct Answer: B

"Read replicas do not have the `cloudsql.iam_authentication` flag enabled automatically when it is enabled on the primary instance." https://cloud.google.com/sql/docs/postgres/replication/create-replica#configure_iam_replicas



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