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**QUESTION 1**

You are designing an augmented reality game for iOS and Android devices. You plan to use Cloud Spanner as the primary backend database for game state storage and player authentication. You want to track in-game rewards that players unlock at every stage of the game. During the testing phase, you discovered that costs are much higher than anticipated, but the query response times are within the SLA. You want to follow Google- recommended practices. You need the database to be performant and highly available while you keep costs low. What should you do?

- A. Manually scale down the number of nodes after the peak period has passed.
- B. Use interleaving to co-locate parent and child rows.
- C. Use the Cloud Spanner query optimizer to determine the most efficient way to execute the SQL query.
- D. Use granular instance sizing in Cloud Spanner and Autoscaler.

Correct Answer: C

QUESTION 2

Your team uses thousands of connected IoT devices to collect device maintenance data for your oil and gas customers in real time. You want to design inspection routines, device repair, and replacement schedules based on insights gathered from the data produced by these devices. You need a managed solution that is highly scalable, supports a multi-cloud strategy, and offers low latency for these IoT devices. What should you do?

- A. Use Firestore with Looker.
- B. Use Cloud Spanner with Data Studio.
- C. Use MongoDB Atlas with Charts.
- D. Use Bigtable with Looker.

Correct Answer: C

QUESTION 3

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

QUESTION 4

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

QUESTION 5

You are working on a new centralized inventory management system to track items available in 200 stores, which each have 500 GB of data. You are planning a gradual rollout of the system to a few stores each week. You need to design an SQL database architecture that minimizes costs and user disruption during each regional rollout and can scale up or down on nights and holidays. What should you do?

- A. Use Oracle Real Application Cluster (RAC) databases on Bare Metal Solution for Oracle.
- B. Use sharded Cloud SQL instances with one or more stores per database instance.
- C. Use a Bigtable cluster with autoscaling.
- D. Use Cloud Spanner with a custom autoscaling solution.

Correct Answer: B

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