■ MENU

Q

G Google Discussions

Exam Professional Data Engineer All Questions

View all questions & answers for the Professional Data Engineer exam

Go to Exam

EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 132 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 132

Topic #: 1

[All Professional Data Engineer Questions]

Your United States-based company has created an application for assessing and responding to user actions. The primary table's data volume grows by 250,000 records per second. Many third parties use your application's APIs to build the functionality into their own frontend applications. Your application's APIs should comply with the following requirements:

- Single global endpoint
- ANSI SQL support
- Consistent access to the most up-to-date data

What should you do?

- A. Implement BigQuery with no region selected for storage or processing.
- B. Implement Cloud Spanner with the leader in North America and read-only replicas in Asia and Europe.
- C. Implement Cloud SQL for PostgreSQL with the master in North America and read replicas in Asia and Europe.
- D. Implement Bigtable with the primary cluster in North America and secondary clusters in Asia and Europe.

Show Suggested Answer

by [deleted] at March 22, 2020, 10:15 a.m.

Comments

Type your comment...

Submit Removed Highly Voted 1 3 years, 7 months ago Description: All the criteria meets for Spanner upvoted 26 times 😑 🏜 sumanshu Highly Voted 🖈 2 years, 4 months ago

- - A BigQuery with NO Region ? (Looks wrong)
 - B Spanner (SQL support and Scalable and have replicas) Looks correct
 - C SQL (can't store so many records) (wrong)
 - D Bigtable NO SQL (wrong)

Vote for B

- upvoted 24 times
- vaga1 Most Recent ② 4 months, 4 weeks ago

Selected Answer: B

- A NO BigQuery with must have a selected regional or multi-regional file storage
- B YES Spanner is specifically designed for this high and consistent throughput
- C NO I am not sure about what many said in this discussion as Cloud SQL can store this amount of records if u have just a few columns. Anyway, for sure Spanner is better and it is a GCP product.
- D Bigtable it's a NoSQL solution, no ANSI
- upvoted 3 times
- 🖃 🚨 AzureDP900 10 months, 1 week ago

B is the answer

- upvoted 1 times
- E a zellck 11 months ago

Selected Answer: B

B is the answer.

- upvoted 1 times
- E Remi2021 1 year, 1 month ago

Selected Answer: B

Guys, read documentation well. A is wrong, BigQuery has Maximum rows per request (50,000). https://cloud.google.com/bigquery/quotas

It is B

- upvoted 4 times
- 🖃 🚨 JamesKarianis 1 year, 3 months ago

Selected Answer: B

Spanner is globally available and meets all the requirements

- upvoted 2 times
- e devric 1 year, 7 months ago

Selected Answer: A

Correct is A. There's no sense to having read replicas outside of US considering than the company is US based.

If you generate a dataset without specifing the Data Location it's gonna be stored in "US Multiregion" by default

upvoted 2 times

■ MaxNRG 1 year, 10 months ago

Selected Answer: B

B: Cloud Spanner is the first scalable, enterprise-grade, globally-distributed, and strongly consistent database service built for the cloud specifically to combine the benefits of relational database structure with non-relational horizontal scale. https://cloud.google.com/spanner/

Cloud Spanner is a fully managed, mission-critical, relational database service that offers transactional consistency at global scale, schemas, SQL (ANSI 2011 with extensions), and automatic, synchronous replication for high availability. https://cloud.google.com/spanner/docs/

https://cloud.google.com/spanner/docs/instances#available-configurations-multi-region

📩 🤚 📁 upvoted 6 times

Tanmovk 3 years, 1 month ago

B is correct, Bigguery cannot support 250K data ingestion/second, as ANSI SQL support is required, no other options left except Spanner.

📥 🤚 📁 unvoted 8 times





