

[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 125 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 125

Topic #: 1

[\[All Professional Data Engineer Questions\]](#)

You have a petabyte of analytics data and need to design a storage and processing platform for it. You must be able to perform data warehouse-style analytics on the data in Google Cloud and expose the dataset as files for batch analysis tools in other cloud providers. What should you do?

- A. Store and process the entire dataset in BigQuery.
- B. Store and process the entire dataset in Bigtable.
- C. Store the full dataset in BigQuery, and store a compressed copy of the data in a Cloud Storage bucket.
- D. Store the warm data as files in Cloud Storage, and store the active data in BigQuery. Keep this ratio as 80% warm and 20% active.

[Show Suggested Answer](#)

by [deleted] at March 22, 2020, 12:07 p.m.



### Comments

[Submit](#)

**Rajokkiyam** [Highly Voted](#) 4 years, 1 month ago

Answer C.

   upvoted 34 times

  **AJKumar** Highly Voted  3 years, 10 months ago

A and B can be eliminated right away as they do not talk about providing for other cloud providers. between C and D. The question says nothing about warm or cold data-rather that data should be made available for other providers--C--can fulfill this condition. Answer C.

   upvoted 24 times

  **AzureDP900** 1 year, 4 months ago

Agree with C

   upvoted 1 times

  **zbyszek1** Most Recent  7 months, 2 weeks ago

For me A. I can use export from BQ to Cloud Storage. There is no need to store two copies of data.

   upvoted 1 times

  **spicebits** 5 months, 4 weeks ago

If you export data from BQ to GCS then you will have two copies and you will be in the same architecture as answer C.

   upvoted 4 times

  **vamgcp** 9 months, 1 week ago

Selected Answer: B

It can be C or D , but I will go with C as storing the full dataset in BigQuery and a compressed copy of the data in Cloud Storage is a good way to balance performance and cost.

   upvoted 2 times

  **forepick** 11 months, 1 week ago

Selected Answer: C

Best answer is C, although BQ can query gzipped files stored on GCS directly. Maybe this double storage makes it a bit more highly available.


   upvoted 2 times

  **izekc** 12 months ago

Selected Answer: D

D is much more accurate.



   upvoted 1 times

  **jkhong** 1 year, 4 months ago

Selected Answer: C

D → does not guarantee 100% queryable or accessible/available


   upvoted 1 times

  **zelck** 1 year, 5 months ago

Selected Answer: C

C is the answer.

   upvoted 1 times

  **Smaks** 1 year, 9 months ago

You can read streaming data from Pub/Sub, and you can write streaming data to Pub/Sub or BigQuery. Thus Cloud Storage is not a proper sink for streaming pipeline.

I vote for B, since it is possible to convert unstructured data and store in BQ

   upvoted 1 times

  **Smaks** 1 year, 9 months ago

ignore this comment, please

   upvoted 10 times

  **Aslkdup** 2 years, 2 months ago

BQ can reach files at google storage as external table. so my answer is D. (If data was smaller than this, I would choose C)

   upvoted 1 times

  **Bhawantha** 2 years, 3 months ago

Selected Answer: C

both requirements are full filled.

   upvoted 2 times

  **MaxNRG** 2 years, 3 months ago

Selected Answer: D

D: BigQuery + Cloud Storage

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 **jkhong** 1 year, 4 months ago

D → does not guarantee 100% queryable or accessible/available

👍 ↩ 🚩 upvoted 2 times

🗄️ 👤 **medeis\_jar** 2 years, 3 months ago

**Selected Answer: C**

"You must be able to perform data warehouse-style analytics on the data in Google Cloud and expose the dataset as files for batch analysis tools in other cloud providers?"

Analytics -> BQ

Exposing -> GCS

👍 ↩ 🚩 upvoted 7 times

🗄️ 👤 **JG123** 2 years, 5 months ago

Correct: C

👍 ↩ 🚩 upvoted 2 times

🗄️ 👤 **xiaofeng\_0226** 2 years, 9 months ago

vote for C

👍 ↩ 🚩 upvoted 3 times

🗄️ 👤 **sumanshu** 2 years, 10 months ago

Vote for 'C'

A - Only Half requirement fulfil, expose as a file not getting fulfilled

B - Not a warehouse

C. Both requirements fulfilled...Bigquery and GCS

D. Both requirement fulfilled...but what if other cloud provider wants to analysis on rest 80% of the data. -

So out of 4 options, C looks okay

👍 ↩ 🚩 upvoted 8 times

🗄️ 👤 **gcper** 3 years, 2 months ago

C

BigQuery for analytics processing and Cloud Storage for exposing the data as files

👍 ↩ 🚩 upvoted 3 times

[Load full discussion...](#)



## Platform

> [Home](#)

> [Examtopics PRO](#)

> [All Exams](#)

> [Training Courses](#)



