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## Exam Professional Data Engineer All Questions

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### 📄 EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 100 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 100

Topic #: 1

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You have a requirement to insert minute-resolution data from 50,000 sensors into a BigQuery table. You expect significant growth in data volume and need the data to be available within 1 minute of ingestion for real-time analysis of aggregated trends. What should you do?

- A. Use bq load to load a batch of sensor data every 60 seconds.
- B. Use a Cloud Dataflow pipeline to stream data into the BigQuery table.
- C. Use the INSERT statement to insert a batch of data every 60 seconds.
- D. Use the MERGE statement to apply updates in batch every 60 seconds.

Show Suggested Answer

by [jvg637](#) at March 19, 2020, 5:39 p.m.

### Comments









































































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🗨️ [jvg637](#) Highly Voted 5 years, 1 month ago

I think we need a pipeline, so it's B to me.

👍 🗳️ 🗳️ upvoted 20 times

-    upvoted 29 times
-   **[Removed]**  5 years, 1 month ago  
Correct - B  
   upvoted 16 times
-   **Erg\_de**  6 months ago  
**Selected Answer: B**  
For real-time analysis and quick data availability, the appropriate option is the combination of the pipeline with BigQuery.  
   upvoted 1 times
-   **Helinia** 1 year, 5 months ago  
“need the data to be available within 1 minute of ingestion for real-time analysis” → low latency requirement → Dataflow streaming  
  
The database can either be BQ or BigTable for this kind of requirement in data volume and latency. But it mentioned that the destination has to be BQ, so B.  
   upvoted 1 times
-   **NeoNitin** 1 year, 9 months ago  
ANSWER b.  
FULL question i have if you need mail me  
neonitin6ATtherate.....  
   upvoted 3 times
-   **aryaavinash** 1 year, 8 months ago  
full email id please ?  
   upvoted 1 times
-   **Oleksandr0501** 2 years ago  
**Selected Answer: B**  
I think we need a pipeline, so it's B to me.))  
   upvoted 3 times
-   **votinhluombikip** 2 years ago  
**Selected Answer: B**  
I think we need a pipeline, so it's B to me.  
   upvoted 2 times
-   **JANCAI** 2 years, 2 months ago  
Why the answer from the <reveal answer> is C??  
   upvoted 1 times
-   **zelck** 2 years, 5 months ago  
**Selected Answer: B**  
B is the answer.  
   upvoted 1 times
-   **Prasha123** 2 years, 5 months ago  
**Selected Answer: B**  
Need pipeline so its B  
   upvoted 1 times
-   **sedado77** 2 years, 7 months ago  
**Selected Answer: B**  
I got this question on sept 2022. Answer is B  
   upvoted 7 times
-   **medeis\_jar** 3 years, 3 months ago  
**Selected Answer: B**  
omg. B only  
   upvoted 2 times
-   **MaxNRG** 3 years, 4 months ago  
**Selected Answer: B**  
Is B, if we expect a growth we'll need some buffer (that will be pub-sub) and the dataflow pipeline to stream data in big query.  
The tabledata.insertAll method is not valid here.  
   upvoted 7 times
-   **bandrivlives** 3 years, 4 months ago

alternatives 3 years, 7 months ago

**Selected Answer: B**

B, streaming with dataflow

👍 ↩ 🚩 upvoted 3 times

🗨️ 👤 **JG123** 3 years, 5 months ago

Wrong answer shown again by examtopics.com

Ans: B

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **Ysance\_AGS** 3 years, 7 months ago

B => with dataflow you can parallelize data ingestion

👍 ↩ 🚩 upvoted 2 times

🗨️ 👤 **szefco** 3 years, 6 months ago

And make it streaming

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **sandipk91** 3 years, 9 months ago

B is the right answer

👍 ↩ 🚩 upvoted 2 times

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