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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 4 DISCUSSION

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 4

Topic #: 1

[All Professional Machine Learning Engineer Questions]

You want to rebuild your ML pipeline for structured data on Google Cloud. You are using PySpark to conduct data transformations at scale, but your pipelines are taking over 12 hours to run. To speed up development and pipeline run time, you want to use a serverless tool and SQL syntax. You have already moved your raw data into Cloud Storage. How should you build the pipeline on Google Cloud while meeting the speed and processing requirements?

- A. Use Data Fusion's GUI to build the transformation pipelines, and then write the data into BigQuery.
- B. Convert your PySpark into SparkSQL queries to transform the data, and then run your pipeline on Dataproc to write the data into BigQuery.
- C. Ingest your data into Cloud SQL, convert your PySpark commands into SQL queries to transform the data, and then use federated queries from BigQuery for machine learning.
- D. Ingest your data into BigQuery using BigQuery Load, convert your PySpark commands into BigQuery SQL queries to transform the data, and then write the transformations to a new table.

Show Suggested Answer

by 8 ralf_cc at July 8, 2021, 12:35 p.m.

Comments

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=	■ nunzio144 Highly Voted 1 1 month ago It should be D Data Fusion is not SQL syntax 1 □ □ upvoted 21 times
	☐ ♣ q4exam 3 years, 1 month ago Agree, BQ is the only serverless that support SQL upvoted 4 times
	 ■ A4M 2 years, 9 months ago Needs to be D as the most suitable answer given the req's in question Datafusion is more of a no code Data transformation tool □ □ upvoted 1 times
3	♣ Celia20210714 Highly Voted ★ 3 years, 3 months ago
	ANS: A https://cloud.google.com/data-fusion#section-1 - Data Fusion is a serverless approach leveraging the scalability and reliability of Google services like Dataproc means Data Fusion offers the best of data integration capabilities with a lower total cost of ownership BigQuery is serverless and supports SQL Dataproc is not serverless, you have to manage clusters Cloud SQL is not serverless, you have to manage instances.
	☐ ♣ TornikePirveli 2 months, 1 week ago By your logic it should be D, because BQ is fully serverless and supports SQL upvoted 1 times
	□ ♣ q4exam 3 years, 1 month ago Data Fusion is not serverless, it create dataproc to execute the job I think the answer is C upvoted 1 times
	 ■ mousseUwU 3 years ago Data Fusion is serverless: https://cloud.google.com/data-fusion#all-features □ □ upvoted 3 times
	I think you're only viewing the sentence "A serverless approach leveraging the scalability and reliability of Google services like Dataproc means Data Fusion offers the best of data integration capabilities with a lower total cost of ownership", The sentence implies that Data Fusion leverages a serverless approach, but it does not explicitly state that Data Fusion itself is serverless. It states that Data Fusion offers the best of data integration capabilities by using a serverless approach that leverages the scalability and reliability of Google services like Dataproc. So, while Data Fusion may not be fully serverless, it is designed to take advantage of serverless capabilities through its integration with Google services.
	→ mousseUwU 3 years ago Agree, A is correct u upvoted 2 times
3	·
3	♣ TornikePirveli 2 months, 1 week ago Serverless, SQL syntax -> BigQuery, simple as that ♠ Purported 2 times
3	
3	▲ tadeupan 3 months, 1 week ago option D because needs a serveless solution and sql sintax and BigQuery offer this. Datarproc is not serverless, so B is

- L Varka 2 months 2 wooks ago

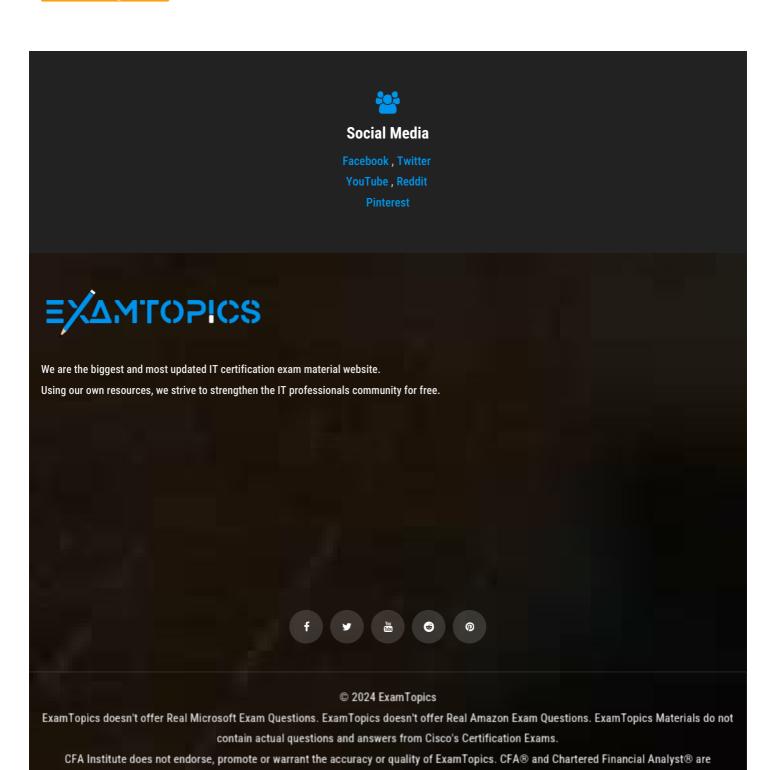
incorrect, D is correct option.

upvoted 2 times

u = YOГКО з monuns, z weeks ago Selected Answer: D There's an updated version of this question in the official Google Cloud certified PMLE study guide. Option D is marked as correct upvoted 2 times TornikePirveli 2 months, 1 week ago Can you link the updated version? On Amazon it's still 1st version and marked B upvoted 1 times PhilipKoku 4 months, 2 weeks ago **Selected Answer: D** The best approach is option D: Ingest data into BigQuery and use SQL queries for transformations. This leverages BigQuery's serverless capabilities, efficient processing, and seamless integration with other Google Cloud services. upvoted 2 times 🗖 🏜 fragkris 10 months, 3 weeks ago Selected Answer: D D - BigQuery is the only serverless and SQL-syntax option. upvoted 1 times E Sum Sum 11 months, 1 week ago Selected Answer: D D - as BQ is server less and supports SQL none of the other options match both criteria upvoted 2 times ■ 12112 1 year, 3 months ago Selected Answer: D I'll go with D. upvoted 1 times ■ M25 1 year, 5 months ago Selected Answer: D Went with D upvoted 3 times 😑 🏜 asava 1 year, 7 months ago **Selected Answer: B** BQ is the serverless solution upvoted 3 times ☐ ▲ TornikePirveli 2 months, 1 week ago But using dataproc is not serverless, so answer should be D upvoted 1 times ■ mellowed 1 year, 9 months ago Correct option is D upvoted 1 times 😑 🏜 ssaporylo 1 year, 9 months ago Vote D upvoted 1 times ares81 1 year, 9 months ago Selected Answer: A It should be A. upvoted 1 times EFIGO 1 year, 11 months ago Selected Answer: D Data Fusion is not in SQL syntax, so no A; Dataproc is not serverless, so no B; Passing through Cloud SQL is uselss, just go with BigQuery, so no C; D is correct upvoted 4 times

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