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## **Exam Professional Data Engineer All Questions**

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## **EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 84 DISCUSSION**

Actual exam question from Google's Professional Data Engineer

Question #: 84

Topic #: 1

[All Professional Data Engineer Questions]

After migrating ETL jobs to run on BigQuery, you need to verify that the output of the migrated jobs is the same as the output of the original. You've loaded a table containing the output of the original job and want to compare the contents with output from the migrated job to show that they are identical. The tables do not contain a primary key column that would enable you to join them together for comparison.

What should you do?

- A. Select random samples from the tables using the RAND() function and compare the samples.
- B. Select random samples from the tables using the HASH() function and compare the samples.
- C. Use a Dataproc cluster and the BigQuery Hadoop connector to read the data from each table and calculate a hash from non-timestamp columns of the table after sorting. Compare the hashes of each table.
- D. Create stratified random samples using the OVER() function and compare equivalent samples from each table.

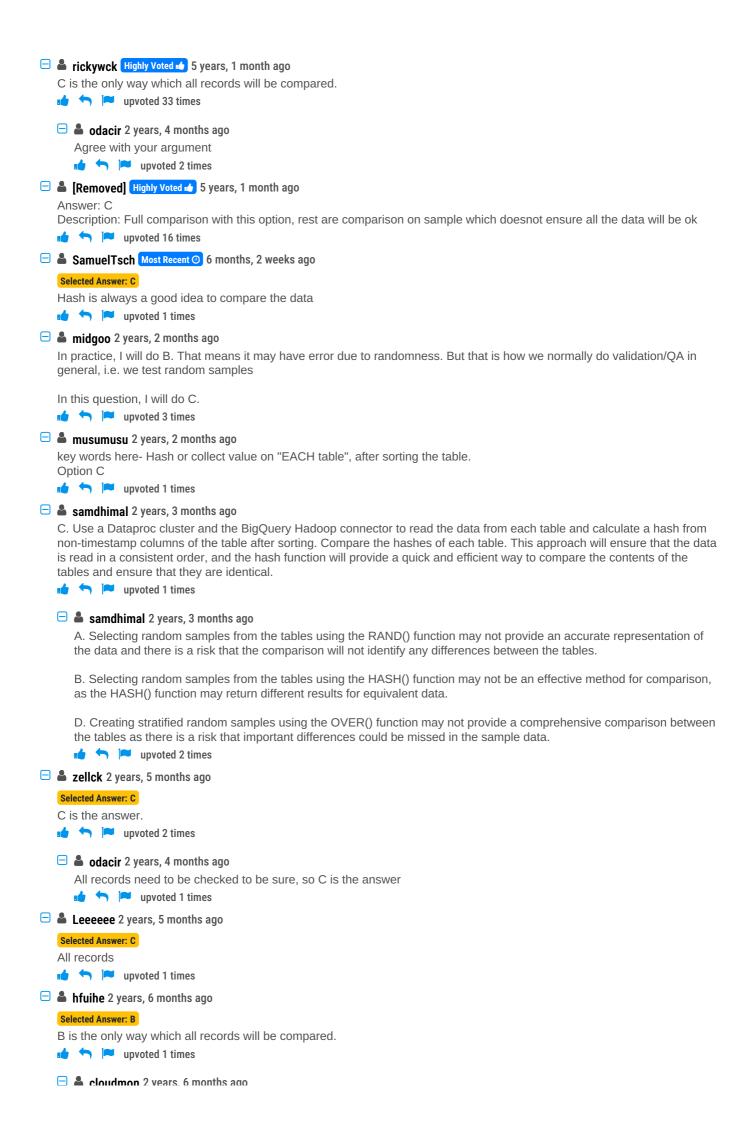
**Show Suggested Answer** 

by A rickywck at March 17, 2020, 8:31 a.m.

## **Comments**

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= olouullion = jeale, e ...e..... age You must have meant to say C upvoted 2 times medeis\_jar 3 years, 3 months ago Selected Answer: C HASH() to compare data skipping dates and timestamps upvoted 1 times 🖃 🏜 stefanop 3 years ago The hash in answer C is used to select a sample of the table, not to compare them upvoted 1 times atefanop 3 years ago Ignore my comment, it was about answer B. I suggest you to go with answer C which is the only solution comparing all the rows/tables upvoted 1 times MaxNRG 3 years, 4 months ago Selected Answer: C options A B and D only will determine that it "might" be identical since is only a sample. HASH() can be helpful when doing bulk comparisons, but you still have to compare field by field to get the final answer. The only one left is C which looks good to me upvoted 2 times ■ JayZeeLee 3 years, 5 months ago The rest use RAND() at some point, which makes it hard to compare for consistency, unless there's a 'seed' option, which wasn't mentioned. So C. 📩 🤚 🍽 upvoted 1 times ■ u\_t\_s 3 years, 7 months ago Since there is no PK and it is possible that set of values is commons in some records which result in same hashkey for those records. But still Anwer is C upvoted 3 times 🖃 🏜 sumanshu 3 years, 10 months ago Vote for 'C" upvoted 1 times 🗖 🏜 daghayeghi 4 years, 2 months ago Because said migrated to BigQuery, then we don't need Dataproc, and samples don't mean you don't compare all of data. upvoted 3 times yoshik 3 years, 7 months ago a sample is a subset of data. then you should assure that the union of the samples contain the data set. Excessively complicated. You migrate to BigQuery but need to check BigQuery output, that is why you should use another tool, Dataproc in this Agree that then you should control Dataproc output but suppositions are becoming too many. upvoted 1 times atnafu2020 4 years, 8 months ago

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Using Cloud Storage with big data

Cloud Storage is a key part of storing and working with Big Data on Google Cloud. Examples include:

Loading data into BigQuery.

Using Dataproc, which automatically installs the HDFS-compatible Cloud Storage connector, enabling the use of Cloud Storage buckets in parallel with HDFS.

Using a bucket to hold staging files and temporary data for Dataflow pipelines.

For Dataflow, a Cloud Storage bucket is required. For BigQuery and Dataproc, using a Cloud Storage bucket is optional but recommended.

gsutil is a command-line tool that enables you to work with Cloud Storage buckets and objects easily and robustly, in particular in big data scenarios. For example, with gsutil you can copy many files in parallel with a single command, copy

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