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Exam Associate Cloud Engineer All Questions

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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 17 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 17

Topic #: 1

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You are analyzing Google Cloud Platform service costs from three separate projects. You want to use this information to create service cost estimates by service type, daily and monthly, for the next six months using standard query syntax. What should you do?

- A. Export your bill to a Cloud Storage bucket, and then import into Cloud Bigtable for analysis.
- B. Export your bill to a Cloud Storage bucket, and then import into Google Sheets for analysis.
- C. Export your transactions to a local file, and perform analysis with a desktop tool.
- D. Export your bill to a BigQuery dataset, and then write time window-based SQL queries for analysis.

Show Suggested Answer

by [cesar7816](#) at March 9, 2020, 4:43 a.m.

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[mohdafiuddin](#) Highly Voted 3 years, 9 months ago

Solving this by first eliminating the options that don't suit us. By breaking down the question into the key requirements-

1. Analyzing Google Cloud Platform service costs from three separate projects.
2. Using standard query syntax. -> (Relational data and SQL)

A. 'Cloud Storage bucket'.....'Cloud Bigtable'. Not feasible, mainly because cloud BigTable is not good for Structured Data (or Relational Data on which we can run SQL queries as per the question's requirements). BigTable is better suited for Semi Structured data and NoSQL data.

B. 'Cloud Storage bucket'.....'Google Sheets'. Not Feasible because there is no use of SQL in this option, which is one of the requirements.

C. Local file, external tools... this is automatically eliminated because the operation we need is simple, and there has to be a GCP native solution for this. We shouldn't need to rely on going out of the cloud for such a simple thing.

D. 'BigQuery'.....'SQL queries' -> This is the right answer.

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ryumada 2 years, 2 months ago

Cloud billing data can only be exported to a JSON local file and to Bigquery. So, using Cloud Storage to export cloud billing data is not possible to do.

<https://cloud.google.com/billing/docs/how-to/export-data-bigquery>

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cesar7816 Highly Voted 4 years, 7 months ago

Agreed, BigQuery

upvoted 18 times

yursteve 3 years, 10 months ago

the key is standard query syntax

upvoted 3 times

SAMBIT Most Recent 8 months, 3 weeks ago

Try it here: <https://lookerstudio.google.com/reporting/0B7GT7ZlyzUmCZHFhNDIKVENHYmc/page/tLtE>

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BAofBK 11 months, 2 weeks ago

The correct answer is D

upvoted 2 times

Evan7557 1 year ago

D is the Answer

upvoted 1 times

YourCloudGuru 1 year ago

Selected Answer: D

The correct answer is D.

BigQuery is a fully-managed, petabyte-scale analytics data warehouse that enables businesses to analyze all their data very quickly. It is also a good choice for analyzing cost data because it can handle large amounts of data and can perform complex queries quickly.

Time window-based SQL queries allow you to analyze data over a specific time period. For example, you could write a query to calculate the total cost of a particular service for each day of the month.

Here is an example of a BigQuery query that you could use to calculate the total cost of a particular service for each day of the month:

```
sql
SELECT
cost,
DATE(usage_start_time) AS date
FROM
`[PROJECT_ID].billing.dataset`
WHERE
service_id = 'YOUR_SERVICE_ID'
GROUP BY
date
ORDER BY
date
```

This query will return a table with two columns: `cost` and `date`. The `cost` column will contain the total cost of the service for each day of the month. The `date` column will contain the date for each row.

upvoted 2 times

Captain1212 1 year, 1 month ago

yes D, is the correct answer, because we only use bigquery for semi or structured data

   upvoted 1 times

  **Ashish_Tayal** 1 year, 6 months ago

Selected Answer: D

In GCP, Always use Big Query to export Billing. And Big Query is best for Analyzing

   upvoted 3 times

  **Partha117** 1 year, 7 months ago

Selected Answer: D

Big Query will allow sql analysis

   upvoted 2 times

  **Buruguduystunstugudunstuy** 1 year, 9 months ago

Selected Answer: D

The correct answer is Option D. Exporting the bill to a BigQuery dataset allows you to use SQL queries to analyze the data and create service cost estimates by service type, daily and monthly, for the next six months. This is an efficient and effective way to analyze the data, especially if you are familiar with SQL syntax.

Option A, importing the bill into Cloud Bigtable, may be more complex and may not offer the same level of flexibility as using SQL queries in BigQuery.



Option B, importing the bill into Google Sheets, may be more suitable for simple analysis, but may not be as efficient for more complex analysis.

Option C, exporting the transactions to a local file and using a desktop tool, may not be as efficient or effective as using a cloud-based solution like BigQuery.

<https://cloud.google.com/billing/docs/how-to/export-data-bigquery>

<https://cloud.google.com/bigquery/docs/reference/standard-sql/>


   upvoted 5 times

  **Kopy** 1 year, 11 months ago

Selected Answer: D

Agreed, BigQuery

   upvoted 1 times

  **leogor** 1 year, 12 months ago

D, using standard query syntax so use BQ

   upvoted 1 times

  **Haarish** 2 years, 3 months ago

Agreed, BigQuery



Ans: D

   upvoted 1 times

  **RanjithK** 2 years, 3 months ago



Answer is D

   upvoted 1 times

  **AzureDP900** 2 years, 4 months ago

D is the right answer.

   upvoted 1 times

  **denkyira** 2 years, 4 months ago

I agreed, BigQuery Answer D is correct

   upvoted 1 times

  **jagan_cloud** 2 years, 5 months ago

answer is Option D

   upvoted 1 times

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