EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 233 DISCUSSION

Actual exam question from Google's Professional Data Engineer
Question #: 233
Topic #: 1
[All Professional Data Engineer Questions]

You are a BigQuery admin supporting a team of data consumers who run ad hoc queries and downstream reporting in tools such as Looker. All data and users are combined under a single organizational project. You recently noticed some slowness in query results and want to troubleshoot where the slowdowns are occurring. You think that there might be some job queuing or slot contention occurring as users run jobs, which slows down access to results. You need to investigate the query job information and determine where performance is being affected. What should you do?

A. Use slot reservations for your project to ensure that you have enough query processing capacity and are able to allocate available slots to the slower queries.

B. Use Cloud Monitoring to view BigQuery metrics and set up alerts that let you know when a certain percentage of slots were used.

C. Use available administrative resource charts to determine how slots are being used and how jobs are performing over time. Run a query on the INFORMATION_SCHEMA to review query performance.

D. Use Cloud Logging to determine if any users or downstream consumers are changing or deleting access grants on tagged resources.

Show Suggested Answer

by scaenruy at *Jan. 3, 2024, 12:52 p.m.*

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raaad Highly Voted 1 year, 4 months ago

Selected Answer: C

- BigQuery provides administrative resource charts that show slot utilization and job performance, which can help identify patterns of heavy usage or contention.
- Additionally, querying the INFORMATION_SCHEMA with the JOBS or JOBS_BY_PROJECT view can provide detailed information about specific queries, including execution time, slot usage, and whether they were queued.

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descrived here:
https://cloud.google.com/blog/products/data-analytics/troubleshoot-bigquery-performance-with-these-dashboards

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Selected Answer: C

Without doubt, C!

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JyoGCP 1 year, 2 months ago

Selected Answer: C

https://cloud.google.com/blog/topics/developers-practitioners/monitor-analyze-bigquery-performance-using-information-schema

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Option C

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Selected Answer: C

C. Use available administrative resource charts to determine how slots are being used and how jobs are performing over time. Run a query on the INFORMATION_SCHEMA to review query performance.

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