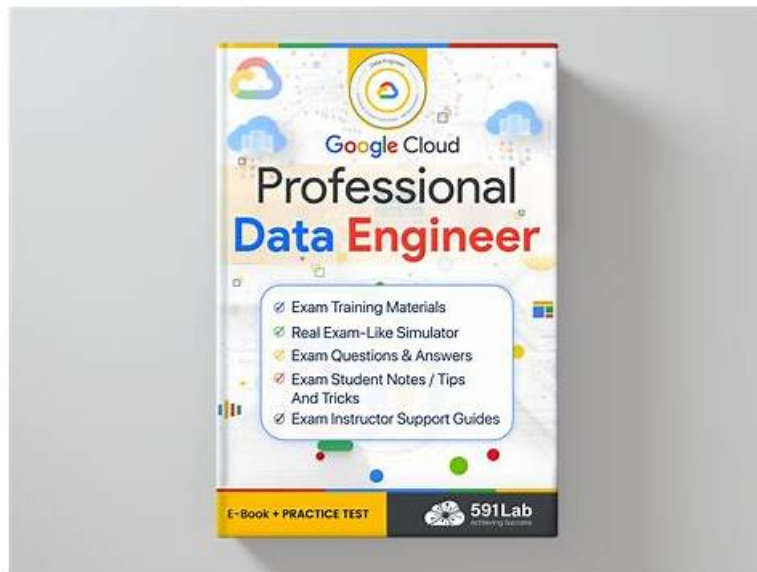


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Google Professional-Data-Engineer Certification Exam is an excellent opportunity for data engineering professionals to validate their skills and knowledge in designing, building, and managing data processing systems on the Google Cloud Platform. It is a challenging exam that requires a deep understanding of Google Cloud Platform tools and services for data processing, as well as the ability to design and implement secure, reliable, and cost-effective data processing systems. Passing the exam and becoming a Google Certified Professional Data Engineer can help professionals advance their careers and increase their earning potential.

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Google Professional-Data-Engineer Certification Exam is designed to assess the skills and knowledge of candidates in various areas related to data engineering. Professional-Data-Engineer exam covers topics such as data processing architecture, data modeling, data ingestion, data transformation, and data storage. Candidates are also expected to have a strong understanding of Google Cloud technologies, including BigQuery, Cloud Storage, and Dataflow.

Google Certified Professional Data Engineer Exam Sample Questions (Q338-Q343):

NEW QUESTION # 338

An aerospace company uses a proprietary data format to store its night data. You need to connect this new data source to BigQuery and stream the data into BigQuery. You want to efficiently import the data into BigQuery while consuming as few resources as possible. What should you do?

- A. Write a shell script that triggers a Cloud Function that performs periodic ETL batch jobs on the new data source
- B. Use Apache Hive to write a Dataproc job that streams the data into BigQuery in CSV format
- **C. Use an Apache Beam custom connector to write a Dataflow pipeline that streams the data into BigQuery in Avro format**
- D. Use a standard Dataflow pipeline to store the raw data in BigQuery and then transform the format later when the data is used

Answer: C

NEW QUESTION # 339

You create an important report for your large team in Google Data Studio 360. The report uses Google BigQuery as its data source. You notice that visualizations are not showing data that is less than 1 hour old. What should you do?

- A. Refresh your browser tab showing the visualizations.
- **B. Disable caching by editing the report settings.**
- C. Clear your browser history for the past hour then reload the tab showing the visualizations.
- D. Disable caching in BigQuery by editing table details.

Answer: B

Explanation:

Explanation/Reference:

Reference: <https://support.google.com/datastudio/answer/7020039?hl=en>

NEW QUESTION # 340

You are migrating a large number of files from a public HTTPS endpoint to Cloud Storage. The files are protected from unauthorized access using signed URLs. You created a TSV file that contains the list of object URLs and started a transfer job by using Storage Transfer Service. You notice that the job has run for a long time and eventually failed. Checking the logs of the transfer job reveals that the job was running fine until one point, and then it failed due to HTTP 403 errors on the remaining files. You verified that there were no changes to the source system. You need to fix the problem to resume the migration process. What should you do?

- **A. Create a new TSV file for the remaining files by generating signed URLs with a longer validity period. Split the TSV file into multiple smaller files and submit them as separate Storage Transfer Service jobs in parallel.**
- B. Update the file checksums in the TSV file from using MD5 to SHA256. Remove the completed files from the TSV file and rerun the Storage Transfer Service job.
- C. Renew the TLS certificate of the HTTPS endpoint. Remove the completed files from the TSV file and rerun the Storage Transfer Service job.
- D. Set up Cloud Storage FUSE, and mount the Cloud Storage bucket on a Compute Engine Instance. Remove the completed files from the TSV file. Use a shell script to iterate through the TSV file and download the remaining URLs to the FUSE mount point.

Answer: A

Explanation:

A signed URL is a URL that provides limited permission and time to access a resource on a web server. It is often used to grant temporary access to protected files without requiring authentication. Storage Transfer Service is a service that allows you to transfer data from external sources, such as HTTPS endpoints, to Cloud Storage buckets. You can use a TSV file to specify the list of URLs to transfer. In this scenario, the most likely cause of the HTTP 403 errors is that the signed URLs have expired before the transfer job could complete. This could happen if the signed URLs have a short validity period or the transfer job takes a long time due to the large number of files or network latency. To fix the problem, you need to create a new TSV file for the remaining files by generating new signed URLs with a longer validity period. This will ensure that the URLs do not expire before the transfer job finishes. You can use the Cloud Storage tools or your own program to generate signed URLs. Additionally, you can split the TSV file into multiple smaller files and submit them as separate Storage Transfer Service jobs in parallel. This will speed up the transfer process and reduce the risk of errors. References:

- * Signed URLs | Cloud Storage Documentation
- * V4 signing process with Cloud Storage tools
- * V4 signing process with your own program
- * Using a URL list file
- * What Is a 403 Forbidden Error (and How Can I Fix It)?

NEW QUESTION # 341

You have spent a few days loading data from comma-separated values (CSV) files into the Google BigQuery table `CLICK_STREAM`. The column `DT` stores the epoch time of click events. For convenience, you chose a simple schema where every field is treated as the `STRING` type. Now, you want to compute web session durations of users who visit your site, and you want to change its data type to the `TIMESTAMP`. You want to minimize the migration effort without making future queries computationally expensive. What should you do?

- A. Construct a query to return every row of the table `CLICK_STREAM`, while using the built-in function to cast strings from the column `DT` into `TIMESTAMP` values. Run the query into a destination table `NEW_CLICK_STREAM`, in which the column `TS` is the `TIMESTAMP` type. Reference the table `NEW_CLICK_STREAM` instead of the table `CLICK_STREAM` from now on. In the future, new data is loaded into the table `NEW_CLICK_STREAM`.
- B. Add two columns to the table `CLICK_STREAM`: `TS` of the `TIMESTAMP` type and `IS_NEW` of the `BOOLEAN` type. Reload all data in append mode. For each appended row, set the value of `IS_NEW` to true. For future queries, reference the column `TS` instead of the column `DT`, with the `WHERE` clause ensuring that the value of `IS_NEW` must be true.
- C. Delete the table `CLICK_STREAM`, and then re-create it such that the column `DT` is of the `TIMESTAMP` type. Reload the data.
- D. Create a view `CLICK_STREAM_V`, where strings from the column `DT` are cast into `TIMESTAMP` values. Reference the view `CLICK_STREAM_V` instead of the table `CLICK_STREAM` from now on.
- E. Add a column `TS` of the `TIMESTAMP` type to the table `CLICK_STREAM`, and populate the numeric values from the column `TS` for each row. Reference the column `TS` instead of the column `DT` from now on.

Answer: B

NEW QUESTION # 342

Your company operates in three domains: airlines, hotels, and ride-hailing services. Each domain has two teams: analytics and data science, which create data assets in BigQuery with the help of a central data platform team. However, as each domain is evolving rapidly, the central data platform team is becoming a bottleneck. This is causing delays in deriving insights from data, and resulting in stale data when pipelines are not kept up to date. You need to design a data mesh architecture by using Dataplex to eliminate the bottleneck. What should you do?

- A. 1. Create one lake for each team. Inside each lake, create one zone for each domain.
2. Attach each of the BigQuery datasets created by the individual teams as assets to the respective zone.
3. Have the central data platform team manage all zones' data assets.
- B. 1 Create one lake for each domain. Inside each lake, create one zone for each team.
2. Attach each of the BigQuery datasets created by the individual teams as assets to the respective zone.
3. Direct each domain to manage their own lake's data assets.
- C. 1 Create one lake for each domain. Inside each lake, create one zone for each team.
2. Attach each of the BigQuery datasets created by the individual teams as assets to the respective zone.
3. Have the central data platform team manage all lakes' data assets.
- D. 1 Create one lake for each team. Inside each lake, create one zone for each domain.
2. Attach each to the BigQuery datasets created by the individual teams as assets to the respective zone.
3. Direct each domain to manage their own zone's data assets.

Answer: D

Explanation:

To design a data mesh architecture using Dataplex to eliminate bottlenecks caused by a central data platform team, consider the following:

Data Mesh Architecture:

Data mesh promotes a decentralized approach where domain teams manage their own data pipelines and assets, increasing agility and reducing bottlenecks.

Dataplex Lakes and Zones:

Lakes in Dataplex are logical containers for managing data at scale, and zones are subdivisions within lakes for organizing data based

on domains, teams, or other criteria.

Domain and Team Management:

By creating a lake for each team and zones for each domain, each team can independently manage their data assets without relying on the central data platform team.

This setup aligns with the principles of data mesh, promoting ownership and reducing delays in data processing and insights.

Implementation Steps:

Create Lakes and Zones:

Create separate lakes in Datalake for each team (analytics and data science).

Within each lake, create zones for the different domains (airlines, hotels, ride-hailing).

Attach BigQuery Datasets:

Attach the BigQuery datasets created by the respective teams as assets to their corresponding zones.

Decentralized Management:

Allow each domain to manage their own zone's data assets, providing them with the autonomy to update and maintain their pipelines without depending on the central team.

Reference:

Datalake Documentation

BigQuery Documentation

Data Mesh Principles

NEW QUESTION # 343

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