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Google Professional-Data-Engineer Certification Exam is intended for data engineers, data scientists, and other IT professionals who want to demonstrate their proficiency in Google Cloud Platform data engineering technologies. Professional-Data-Engineer Exam covers topics such as design and implementation of data processing systems, building and maintaining databases, data analysis and visualization, and machine learning implementation.

## Google Certified Professional Data Engineer Exam Sample Questions (Q216-Q221):

### NEW QUESTION # 216

You have a data analyst team member who needs to analyze data by using BigQuery. The data analyst wants to create a data pipeline that would load 200 CSV files with an average size of 15MB from a Cloud Storage bucket into BigQuery daily. The data needs to be ingested and transformed before being accessed in BigQuery for analysis. You need to recommend a fully managed, no-code solution for the data analyst. What should you do?

- A. Create a Cloud Run function and schedule it to run daily using Cloud Scheduler to load the data into BigQuery.
- B. Use the BigQuery Data Transfer Service to load files from Cloud Storage to BigQuery, create a BigQuery job which

transforms the data using BigQuery SQL and schedule it to run daily.

- C. Create a pipeline by using BigQuery pipelines and schedule it to load the data into BigQuery daily.
- D. Build a custom Apache Beam pipeline and run it on Dataflow to load the file from Cloud Storage to BigQuery and schedule it to run daily using Cloud Composer.

**Answer: B**

Explanation:

The requirements are for a daily scheduled load, ingest, and transformation, and specifically a fully managed, no-code solution.

\* Ingest (Load): The BigQuery Data Transfer Service (DTS) is the fully managed, serverless, and no-code solution for batch loading files (including CSV from Cloud Storage) into BigQuery on a schedule. This is the "ingest" part.

\* Transform: After loading the raw data into a staging table using DTS, the transformation can be done using BigQuery SQL. This transformation query can then be automated using a Scheduled Query in BigQuery, which is also a fully managed and no-code feature that runs on a schedule.

\* Fully Managed & No-Code: Both DTS for Cloud Storage and Scheduled Queries are native BigQuery features that are fully managed and configured through the console without requiring code, directly meeting the constraints.

\* Correcting other options:

\* A (Cloud Run + Script): Cloud Run requires writing a custom Python script, which violates the no-code requirement.

\* C (Dataflow + Apache Beam + Cloud Composer): This is a powerful, highly scalable ETL solution, but it requires writing custom code (Apache Beam) and requires setting up and managing a workflow orchestrator (Cloud Composer/Airflow), which violates both the fully managed (Dataflow is serverless, but the code/pipeline itself is custom and needs maintenance) and no-code requirements.

\* D (BigQuery pipelines): "BigQuery pipelines" is not a distinct, official product name in the Google Cloud documentation that fulfills a no-code scheduled ETL. The closest product is the combination of DTS and Scheduled Queries, as described in option B.

Reference: Google Cloud Documentation on BigQuery Data Transfer Service and Scheduled Queries:

"The BigQuery Data Transfer Service automates data movement into BigQuery on a scheduled, managed basis... The BigQuery Data Transfer Service supports loading data from Cloud Storage in one of the following formats: Comma-separated values (CSV)..." (Source: What is BigQuery Data Transfer Service? and Introduction to Cloud Storage transfers)

"A scheduled query is a query that BigQuery automatically runs at regular intervals. When you configure a scheduled query, you specify the GoogleSQL SELECT statement to run, the destination table for the query results, and the frequency of the query."

(Source: Scheduling queries) This combination delivers a fully managed, no-code ELT (Extract-Load-Transform) pipeline.

### NEW QUESTION # 217

To give a user read permission for only the first three columns of a table, which access control method would you use?

- A. Primitive role
- B. Authorized view
- C. It's not possible to give access to only the first three columns of a table.
- D. Predefined role

**Answer: B**

Explanation:

Explanation

An authorized view allows you to share query results with particular users and groups without giving them read access to the underlying tables. Authorized views can only be created in a dataset that does not contain the tables queried by the view.

When you create an authorized view, you use the view's SQL query to restrict access to only the rows and columns you want the users to see.

Reference: <https://cloud.google.com/bigquery/docs/views#authorized-views>

### NEW QUESTION # 218

You want to archive data in Cloud Storage. Because some data is very sensitive, you want to use the "Trust No One" (TNO) approach to encrypt your data to prevent the cloud provider staff from decrypting your data. What should you do?

- A. Use gcloud kms keys create to create a symmetric key. Then use gcloud kms encrypt to encrypt each archival file with the key and unique additional authenticated data (AAD). Use gsutil cp to upload each encrypted file to the Cloud Storage bucket, and keep the AAD outside of Google Cloud.
- B. Specify customer-supplied encryption key (CSEK) in the .botoconfiguration file. Use gsutil cpto upload each archival file to the Cloud Storage bucket. Save the CSEK in Cloud Memorystore as permanent storage of the secret.

- C. Use `gcloud kms keys create` to create a symmetric key. Then use `gcloud kms encrypt` to encrypt each archival file with the key. Use `gsutil cp` to upload each encrypted file to the Cloud Storage bucket. Manually destroy the key previously used for encryption, and rotate the key once.
- D. Specify customer-supplied encryption key (CSEK) in the `.botoconfiguration` file. Use `gsutil cp` to upload each archival file to the Cloud Storage bucket. Save the CSEK in a different project that only the security team can access.

**Answer: C**

#### NEW QUESTION # 219

You are a head of BI at a large enterprise company with multiple business units that each have different priorities and budgets. You use on-demand pricing for BigQuery with a quota of 2K concurrent on-demand slots per project. Users at your organization sometimes don't get slots to execute their query and you need to correct this. You'd like to avoid introducing new projects to your account.

What should you do?

- A. Create an additional project to overcome the 2K on-demand per-project quota.
- B. Switch to flat-rate pricing and establish a hierarchical priority model for your projects.
- C. Increase the amount of concurrent slots per project at the Quotas page at the Cloud Console.
- D. Convert your batch BQ queries into interactive BQ queries.

**Answer: B**

Explanation:

Explanation/Reference:

Reference <https://cloud.google.com/blog/products/gcp/busting-12-myths-about-bigquery>

#### NEW QUESTION # 220

You are creating a new pipeline in Google Cloud to stream IoT data from Cloud Pub/Sub through Cloud Dataflow to BigQuery. While previewing the data, you notice that roughly 2% of the data appears to be corrupt.

You need to modify the Cloud Dataflow pipeline to filter out this corrupt data. What should you do?

- A. Add a `ParDo` transform in Cloud Dataflow to discard corrupt elements.
- B. Add a `Partition` transform in Cloud Dataflow to separate valid data from corrupt data.
- C. Add a `SideInput` that returns a Boolean if the element is corrupt.
- D. Add a `GroupByKey` transform in Cloud Dataflow to group all of the valid data together and discard the rest.

**Answer: A**

#### NEW QUESTION # 221

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