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Google Certified Professional Data Engineer Exam Sample Questions (Q141-Q146):

NEW QUESTION # 141

Which of the following is NOT one of the three main types of triggers that Dataflow supports?

- A. Trigger based on element count
- **B. Trigger based on element size in bytes**
- C. Trigger based on time
- D. Trigger that is a combination of other triggers

Answer: B

Explanation:

Explanation

There are three major kinds of triggers that Dataflow supports: 1. Time-based triggers 2. Data-driven triggers.

You can set a trigger to emit results from a window when that window has received a certain number of data elements. 3.

Composite triggers. These triggers combine multiple time-based or data-driven triggers in some logical way Reference:

<https://cloud.google.com/dataflow/model/triggers>

NEW QUESTION # 142

You have a BigQuery dataset named "customers". All tables will be tagged by using a Data Catalog tag template named "gdpr". The template contains one mandatory field, "has sensitive data", with a boolean value. All employees must be able to do a simple search and find tables in the dataset that have either true or false in the "has sensitive data" field. However, only the Human Resources (HR) group should be able to see the data inside the tables for which "has sensitive data" is true. You give the all employees group the bigquery.metadataViewer and bigquery.connectionUser roles on the dataset. You want to minimize configuration overhead. What should you do next?

- A. Create the "gdpr" tag template with private visibility. Assign the bigquery -dataViewer role to the HR group on the tables that contain sensitive data.
- B. Create the "~gdpr" tag template with private visibility. Assign the datacatalog.tagTemplateViewer role on this tag to the all employees group, and assign the bigquery.dataViewer role to the HR group on the tables that contain sensitive data.
- C. Create the "gdpr" tag template with public visibility. Assign the bigquery.dataViewer role to the HR group on the tables that contain sensitive data.
- **D. Create the "gdpr" tag template with public visibility. Assign the datacatalog.tagTemplateViewer role on this tag to the all employees group, and assign the bigquery.dataViewer role to the HR group on the tables that contain sensitive data.**

Answer: D

Explanation:

To ensure that all employees can search and find tables with GDPR tags while restricting data access to sensitive tables only to the HR group, follow these steps:

Data Catalog Tag Template:

Use Data Catalog to create a tag template named "gdpr" with a boolean field "has sensitive data". Set the visibility to public so all employees can see the tags.

Roles and Permissions:

Assign the datacatalog.tagTemplateViewer role to the all employees group. This role allows users to view the tags and search for tables based on the "has sensitive data" field.

Assign the bigquery.dataViewer role to the HR group specifically on tables that contain sensitive data. This ensures only HR can access the actual data in these tables.

Steps to Implement:

Create the GDPR Tag Template:

Define the tag template in Data Catalog with the necessary fields and set visibility to public.

Assign Roles:

Grant the datacatalog.tagTemplateViewer role to the all employees group for visibility into the tags.

Grant the bigquery.dataViewer role to the HR group on tables marked as having sensitive data.

Reference:
Data Catalog Documentation
Managing Access Control in BigQuery
IAM Roles in Data Catalog

NEW QUESTION # 143

Your company is planning to migrate a large on-premises data warehouse to BigQuery. The data is currently stored in a proprietary, vendor-specific format. You need to perform a batch migration of this data to BigQuery. What should you do?

- A. Use the BigQuery Data Transfer Service.
- **B. Export the data to CSV files, upload the files to Cloud Storage, then load the files into BigQuery.**
- C. Use Datastream to replicate the data in real time.
- D. Use the bq command-line tool to load the data directly from the on-premises data warehouse.

Answer: B

Explanation:

Comprehensive and Detailed Explanation:

The challenge here is dealing with a "proprietary, vendor-specific format" for a one-time batch migration.

Option C is the correct answer because it represents the most universal and reliable pattern for migration from any source system.

By first exporting the data into a standard, interoperable format like CSV (or preferably, a self-describing format like Avro or Parquet), you decouple the process from the proprietary source. These standard files can then be easily uploaded to Cloud Storage (the recommended staging area for BigQuery loads) and loaded into BigQuery in a highly performant and parallelized manner.

Option A is incorrect because the bq command-line tool cannot connect directly to an on-premises data warehouse to pull data. It loads data from files or streams.

Option B is incorrect because the BigQuery Data Transfer Service (DTS) has connectors for specific, common data sources (like Teradata, Redshift, S3). It is unlikely to have a connector for a generic

"proprietary, vendor-specific format."

Option D is incorrect because Datastream is a Change Data Capture (CDC) service designed for real-time replication of databases, not for a large-scale, one-time batch migration of a data warehouse.

Reference (Google Cloud Documentation Concepts): Google Cloud's "Data warehouse migration to BigQuery" guide outlines several migration strategies. For batch data transfer, the recommended path is Extract, Transfer, Load (ETL). This involves extracting data from the source into files (in formats like CSV, Avro, Parquet), transferring those files to Cloud Storage, and then loading them into BigQuery. This approach is recommended for its reliability and compatibility with any source system.

NEW QUESTION # 144

You are designing a cloud-native historical data processing system to meet the following conditions:

* The data being analyzed is in CSV, Avro, and PDF formats and will be accessed by multiple analysis tools including Cloud Dataproc, BigQuery, and Compute Engine.

* A streaming data pipeline stores new data daily.

* Performance is not a factor in the solution.

* The solution design should maximize availability.

How should you design data storage for this solution?

- A. Store the data in a multi-regional Cloud Storage bucket. Access the data directly using Cloud Dataproc, BigQuery, and Compute Engine.
- B. Create a Cloud Dataproc cluster with high availability. Store the data in HDFS, and perform analysis as needed.
- C. Store the data in BigQuery. Access the data using the BigQuery Connector on Cloud Dataproc and Compute Engine.
- **D. Store the data in a regional Cloud Storage bucket. Access the bucket directly using Cloud Dataproc, BigQuery, and Compute Engine.**

Answer: D

NEW QUESTION # 145

You designed a database for patient records as a pilot project to cover a few hundred patients in three clinics. Your design used a single database table to represent all patients and their visits, and you used self-joins to generate reports. The server resource utilization was at 50%. Since then, the scope of the project has expanded. The database must now store 100 times more patient

records. You can no longer run the reports, because they either take too long or they encounter errors with insufficient compute resources. How should you adjust the database design?

- A. Add capacity (memory and disk space) to the database server by the order of 200.
- B. Partition the table into smaller tables, with one for each clinic. Run queries against the smaller table pairs, and use unions for consolidated reports.
- **C. Normalize the master patient-record table into the patient table and the visits table, and create other necessary tables to avoid self-join.**
- D. Shard the tables into smaller ones based on date ranges, and only generate reports with prespecified date ranges.

Answer: C

Explanation:

It provides the least amount of inconvenience over using pre-specified date ranges or one table per clinic while also increasing performance due to avoiding self-joins.

NEW QUESTION # 146

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