

Regularly updated as per the updates by the Google Associate-Data-Practitioner



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Google Associate-Data-Practitioner Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Data Analysis and Presentation: This domain assesses the competencies of Data Analysts in identifying data trends, patterns, and insights using BigQuery and Jupyter notebooks. Candidates will define and execute SQL queries to generate reports and analyze data for business questions.• Data Pipeline Orchestration: This section targets Data Analysts and focuses on designing and implementing simple data pipelines. Candidates will select appropriate data transformation tools based on business needs and evaluate use cases for ELT versus ETL.
Topic 2	<ul style="list-style-type: none">• Data Preparation and Ingestion: This section of the exam measures the skills of Google Cloud Engineers and covers the preparation and processing of data. Candidates will differentiate between various data manipulation methodologies such as ETL, ELT, and ETLT. They will choose appropriate data transfer tools, assess data quality, and conduct data cleaning using tools like Cloud Data Fusion and BigQuery. A key skill measured is effectively assessing data quality before ingestion.

Topic 3	<ul style="list-style-type: none"> • Data Management: This domain measures the skills of Google Database Administrators in configuring access control and governance. Candidates will establish principles of least privilege access using Identity and Access Management (IAM) and compare methods of access control for Cloud Storage. They will also configure lifecycle management rules to manage data retention effectively. A critical skill measured is ensuring proper access control to sensitive data within Google Cloud services
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>> Associate-Data-Practitioner Official Practice Test <<

Contains actual Google Cloud Associate Data Practitioner Associate-Data-Practitioner Google Cloud Associate Data Practitioner questions to facilitate preparation

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Google Cloud Associate Data Practitioner Sample Questions (Q43-Q48):

NEW QUESTION # 43

You are a database administrator managing sales transaction data by region stored in a BigQuery table. You need to ensure that each sales representative can only see the transactions in their region. What should you do?

- A. Grant the appropriate IAM permissions on the dataset.
- B. Add a policy tag in BigQuery.
- C. Create a data masking rule.
- D. Create a row-level access policy.

Answer: D

Explanation:

Creating a row-level access policy in BigQuery ensures that each sales representative can see only the transactions relevant to their region. Row-level access policies allow you to define fine-grained access control by filtering rows based on specific conditions, such as matching the sales representative's region. This approach enforces security while providing tailored data access, aligning with the principle of least privilege.

NEW QUESTION # 44

Your organization has decided to migrate their existing enterprise data warehouse to BigQuery. The existing data pipeline tools already support connectors to BigQuery. You need to identify a data migration approach that optimizes migration speed. What should you do?

- A. Use the existing data pipeline tool's BigQuery connector to reconfigure the data mapping.
- B. Create a temporary file system to facilitate data transfer from the existing environment to Cloud Storage. Use Storage Transfer Service to migrate the data into BigQuery.
- C. Use the BigQuery Data Transfer Service to recreate the data pipeline and migrate the data into BigQuery.
- D. Use the Cloud Data Fusion web interface to build data pipelines. Create a directed acyclic graph (DAG) that facilitates pipeline orchestration.

Answer: A

Explanation:

Since your existing data pipeline tools already support connectors to BigQuery, the most efficient approach is to use the existing data pipeline tool's BigQuery connector to reconfigure the data mapping. This leverages your current tools, reducing migration complexity and setup time, while optimizing migration speed. By reconfiguring the data mapping within the existing pipeline, you can seamlessly direct the data into BigQuery without needing additional services or intermediary steps.

NEW QUESTION # 45

You manage an ecommerce website that has a diverse range of products. You need to forecast future product demand accurately to ensure that your company has sufficient inventory to meet customer needs and avoid stockouts. Your company's historical sales data is stored in a BigQuery table. You need to create a scalable solution that takes into account the seasonality and historical data to predict product demand. What should you do?

- A. Use the historical sales data to train and create a BigQuery ML logistic regression model. Use the ML.PREDICT function call to output the predictions into a new BigQuery table.
- B. Use Colab Enterprise to create a Jupyter notebook. Use the historical sales data to train a custom prediction model in Python.
- **C. Use the historical sales data to train and create a BigQuery ML time series model. Use the ML.PREDICT function call to output the predictions into a new BigQuery table.**
- D. Use the historical sales data to train and create a BigQuery ML linear regression model. Use the ML.PREDICT function call to output the predictions into a new BigQuery table.

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation:

Forecasting product demand with seasonality requires a time series model, and BigQuery ML offers a scalable, serverless solution.

Let's analyze:

- * Option A: BigQuery ML's time series models (e.g., ARIMA_PLUS) are designed for forecasting with seasonality and trends. The ML.PREDICT function generates predictions based on historical data, storing them in a table. This is scalable (no infrastructure) and integrates natively with BigQuery, ideal for ecommerce demand prediction.
- * Option B: Colab Enterprise with a custom Python model (e.g., Prophet) is flexible but requires coding, maintenance, and potentially exporting data, reducing scalability compared to BigQuery ML's in-place processing.
- * Option C: Linear regression predicts continuous values but doesn't handle seasonality or time series patterns effectively, making it unsuitable for demand forecasting.

NEW QUESTION # 46

Your company has an on-premises file server with 5 TB of data that needs to be migrated to Google Cloud.

The network operations team has mandated that you can only use up to 250 Mbps of the total available bandwidth for the migration. You need to perform an online migration to Cloud Storage. What should you do?

- A. Use the gcloud storage cp command to copy all files from on-premises to Cloud Storage using the --no-clobber option.
- **B. Use Storage Transfer Service to configure an agent-based transfer. Set the appropriate bandwidth limit for the agent pool.**
- C. Request a Transfer Appliance, copy the data to the appliance, and ship it back to Google Cloud.
- D. Use the gcloud storage cp command to copy all files from on-premises to Cloud Storage using the --daisy-chain option.

Answer: B

Explanation:

Comprehensive and Detailed in Depth Explanation:

Why A is correct: Storage Transfer Service with agent-based transfer allows for online migrations and provides the ability to set bandwidth limits.

Agents are installed on-premises and can be configured to respect network constraints.

Why other options are incorrect:

B: The --daisy-chain option is not related to bandwidth control.

C: Transfer Appliance is for offline migrations and is not suitable for online transfers with bandwidth constraints.

D: The --no-clobber option prevents overwriting existing files but does not control bandwidth.

NEW QUESTION # 47

You are working on a project that requires analyzing daily social media data. You have 100 GB of JSON formatted data stored in Cloud Storage that keeps growing.

You need to transform and load this data into BigQuery for analysis. You want to follow the Google-recommended approach. What should you do?

- **A. Use Dataflow to transform the data and write the transformed data to BigQuery.**

- B. Manually download the data from Cloud Storage. Use a Python script to transform and upload the data into BigQuery.
- C. Use Cloud Data Fusion to transfer the data into BigQuery raw tables, and use SQL to transform it.
- D. Use Cloud Run functions to transform and load the data into BigQuery.

Answer: A

Explanation:

Comprehensive and Detailed in Depth Explanation:

Why C is correct: Dataflow is a fully managed service for transforming and enriching data in both batch and streaming modes.

Dataflow is Google's recommended way to transform large datasets.

It is designed for parallel processing, making it suitable for large datasets.

Why other options are incorrect:

A: Manual downloading and scripting is not scalable or efficient.

B: Cloud Run functions are for stateless applications, not large data transformations.

D: While Cloud Data Fusion could work, Dataflow is more optimized for large scale data transformation.

NEW QUESTION # 48

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