

Associate-Data-Practitioner Valid Real Exam - Associate-Data-Practitioner Latest Exam Question



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Google Associate-Data-Practitioner Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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

Associate-Data-Practitioner Latest Exam Question & Detailed Associate-Data-Practitioner Answers

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Google Cloud Associate Data Practitioner Sample Questions (Q106-Q111):

NEW QUESTION # 106

Your retail company wants to analyze customer reviews to understand sentiment and identify areas for improvement. Your company has a large dataset of customer feedback text stored in BigQuery that includes diverse language patterns, emojis, and slang. You want to build a solution to classify customer sentiment from the feedback text. What should you do?

- A. Preprocess the text data in BigQuery using SQL functions. Export the processed data to AutoML Natural Language for model training and deployment.
- **B. Export the raw data from BigQuery. Use AutoML Natural Language to train a custom sentiment analysis model.**
- C. Develop a custom sentiment analysis model using TensorFlow. Deploy it on a Compute Engine instance.
- D. Use Dataproc to create a Spark cluster, perform text preprocessing using Spark NLP, and build a sentiment analysis model with Spark MLlib.

Answer: B

Explanation:

Comprehensive and Detailed in Depth Explanation:

Why B is correct: AutoML Natural Language is designed for text classification tasks, including sentiment analysis, and can handle diverse language patterns without extensive preprocessing.

AutoML can train a custom model with minimal coding.

Why other options are incorrect: A: Unnecessary extra preprocessing. AutoML can handle the raw data.

C: Dataproc and Spark are overkill for this task. AutoML is more efficient and easier to use.

D: Developing a custom TensorFlow model requires significant expertise and time, which is not efficient for this scenario.

NEW QUESTION # 107

You are developing a data ingestion pipeline to load small CSV files into BigQuery from Cloud Storage. You want to load these files upon arrival to minimize data latency. You want to accomplish this with minimal cost and maintenance. What should you do?

- A. Use the bq command-line tool within a Cloud Shell instance to load the data into BigQuery.
- **B. Create a Cloud Run function to load the data into BigQuery that is triggered when data arrives in Cloud Storage.**
- C. Create a Cloud Composer pipeline to load new files from Cloud Storage to BigQuery and schedule it to run every 10 minutes.
- D. Create a Dataproc cluster to pull CSV files from Cloud Storage, process them using Spark, and write the results to BigQuery.

Answer: B

Explanation:

Using a Cloud Run function triggered by Cloud Storage to load the data into BigQuery is the best solution because it minimizes both cost and maintenance while providing low-latency data ingestion. Cloud Run is a serverless platform that automatically scales based on the workload, ensuring efficient use of resources without requiring a dedicated instance or cluster. It integrates seamlessly with Cloud Storage event notifications, enabling real-time processing of incoming files and loading them into BigQuery. This approach is cost-effective, scalable, and easy to manage.

NEW QUESTION # 108

You are constructing a data pipeline to process sensitive customer data stored in a Cloud Storage bucket. You need to ensure that this data remains accessible, even in the event of a single-zone outage. What should you do?

- A. Store the data in Nearline storage.
- B. Enable Object Versioning on the bucket.
- C. Set up a Cloud CDN in front of the bucket.
- **D. Store the data in a multi-region bucket.**

Answer: D

Explanation:

Storing the data in a multi-region bucket ensures high availability and durability, even in the event of a single-zone outage. Multi-region buckets replicate data across multiple locations within the selected region, providing resilience against zone-level failures and ensuring that the data remains accessible. This approach is particularly suitable for sensitive customer data that must remain available without interruptions.

A single-zone outage requires high availability across zones or regions. Cloud Storage offers location-based redundancy options:

* Option A: Cloud CDN caches content for web delivery but doesn't protect against underlying storage outages—it's for performance, not availability of the source data.

* Option B: Object Versioning retains old versions of objects, protecting against overwrites or deletions, but doesn't ensure availability during a zone failure (still tied to one location).

* Option C: Multi-region buckets (e.g., us or eu) replicate data across multiple regions, ensuring accessibility even if a single zone or region fails. This provides the highest availability for sensitive data in a pipeline.

NEW QUESTION # 109

You used BigQuery ML to build a customer purchase propensity model six months ago. You want to compare the current serving data with the historical serving data to determine whether you need to retrain the model. What should you do?

- A. Compare the confusion matrix.
- B. Evaluate the data skewness.
- **C. Evaluate data drift.**
- D. Compare the two different models.

Answer: C

Explanation:

Evaluating data drift involves analyzing changes in the distribution of the current serving data compared to the historical data used to train the model. If significant drift is detected, it indicates that the data patterns have changed over time, which can impact the model's performance. This analysis helps determine whether retraining the model is necessary to ensure its predictions remain accurate and relevant. Data drift evaluation is a standard approach for monitoring machine learning models over time.

NEW QUESTION # 110

Your organization needs to store historical customer order data. The data will only be accessed once a month for analysis and must be readily available within a few seconds when it is accessed. You need to choose a storage class that minimizes storage costs while ensuring that the data can be retrieved quickly. What should you do?

- A. Store the data in Cloud Storage using Standard storage.
- B. Store the data in Cloud Storage using Coldline storage.
- **C. Store the data in Cloud Storage using Nearline storage.**
- D. Store the data in Cloud Storage using Archive storage.

Answer: C

Explanation:

Using Nearline storage in Cloud Storage is the best option for data that is accessed infrequently (such as once a month) but must be readily available within seconds when needed. Nearline offers a balance between low storage costs and quick retrieval times, making it ideal for scenarios like monthly analysis of historical data. It is specifically designed for infrequent access patterns while avoiding the higher retrieval costs and longer access times of Coldline or Archive storage.

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