

Google ADP

Associate Data Practitioner

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Question: 1

You need to create a weekly aggregated sales report based on a large volume of data. You want to use Python to design an efficient process for generating this report. What should you do?

- A. Create a Cloud Run function that uses NumPy. Use Cloud Scheduler to schedule the function to run once a week.
- B. Create a Colab Enterprise notebook and use the bigframes.pandas library. Schedule the notebook to execute once a week.
- C. Create a Cloud Data Fusion and Wrangler flow. Schedule the flow to run once a week.
- D. Create a Dataflow directed acyclic graph (DAG) coded in Python. Use Cloud Scheduler to schedule the code to run once a week.

Answer: D

Question: 2

You are working on a project that requires analyzing daily social media data

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

Answer: C

Question: 3

You have a BigQuery dataset containing sales data

a. This data is actively queried for the first 6 months. After that, the data is not queried but needs to be retained for 3 years for compliance reasons. You need to implement a data management strategy that meets access and compliance requirements, while keeping cost and administrative overhead to a minimum. What should you do?

- A. Use BigQuery long-term storage for the entire dataset. Set up a Cloud Run function to delete the data from BigQuery after 3 years.
- B. Partition a BigQuery table by month. After 6 months, export the data to Coldline storage. Implement a lifecycle policy to delete the data from Cloud Storage after 3 years.

- C. Set up a scheduled query to export the data to Cloud Storage after 6 months. Write a stored procedure to delete the data from BigQuery after 3 years.
- D. Store all data in a single BigQuery table without partitioning or lifecycle policies.

Answer: B

Question: 4

Your company uses Looker as its primary business intelligence platform. You want to use LookML to visualize the profit margin for each of your company's products in your Looker Explores and dashboards. You need to implement a solution quickly and efficiently. What should you do?

- A. Create a derived table that pre-calculates the profit margin for each product, and include it in the Looker model.
- B. Define a new measure that calculates the profit margin by using the existing revenue and cost fields.
- C. Create a new dimension that categorizes products based on their profit margin ranges (e.g., high, medium, low).
- D. Apply a filter to only show products with a positive profit margin.

Answer: B

Question: 5

Your team is building several data pipelines that contain a collection of complex tasks and dependencies that you want to execute on a schedule, in a specific order. The tasks and dependencies consist of files in Cloud Storage, Apache Spark jobs, and data in BigQuery. You need to design a system that can schedule and automate these data processing tasks using a fully managed approach. What should you do?

- A. Use Cloud Scheduler to schedule the jobs to run.
- B. Use Cloud Tasks to schedule and run the jobs asynchronously.
- C. Create directed acyclic graphs (DAGS) in Cloud Composer. Use the appropriate operators to connect to Cloud Storage, Spark, and BigQuery.
- D. Create directed acyclic graphs (DAGS) in Apache Airflow deployed on Google Kubernetes Engine. Use the appropriate operators to connect to Cloud Storage, Spark, and BigQuery.

Answer: C

Question: 6

Your organization has several datasets in BigQuery. The datasets need to be shared with your external partners so that they can run SQL queries without needing to copy the data to their own projects. You

have organized each partner's data in its own BigQuery dataset. Each partner should be able to access only their data

a. You want to share the data while following Google-recommended practices. What should you do?

A. Use Analytics Hub to create a listing on a private data exchange for each partner dataset. Allow each partner to subscribe to their respective listings.

B. Create a Dataflow job that reads from each BigQuery dataset and pushes the data into a dedicated Pub /Sub topic for each partner. Grant each partner the pubsub.subscriber IAM role.

C. Export the BigQuery data to a Cloud Storage bucket. Grant the partners the storage.objectUser IAM role on the bucket.

D. Grant the partners the bigquery.user IAM role on the BigQuery project.

Answer: A

Question: 7

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 two different models.

B. Evaluate the data skewness.

C. Evaluate data drift.

D. Compare the confusion matrix.

Answer: C

Question: 8

You need to transfer approximately 300 TB of data from your company's on-premises data center to Cloud Storage. You have 100 Mbps internet bandwidth, and the transfer needs to be completed as quickly as possible. What should you do?

A. Use Cloud Client Libraries to transfer the data over the internet.

B. Use the gcloud storage command to transfer the data over the internet.

C. Compress the data, upload it to multiple cloud storage providers, and then transfer the data to CloudStorage.

D. Request a Transfer Appliance, copy the data to the appliance, and ship it back to Google.

Answer: D

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