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>> **Clearer Associate-Data-Practitioner Explanation** <<

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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

Google Cloud Associate Data Practitioner Sample Questions (Q76-Q81):

NEW QUESTION # 76

Your company is setting up an enterprise business intelligence platform. You need to limit data access between many different teams while following the Google-recommended approach. What should you do first?

- **A. Create a Looker (Google Cloud core) instance, and configure different Looker groups for each team.**
- B. Create one Looker Studio report with multiple pages, and add each team's data as a separate data source to the report.
- C. Create a Looker (Google Cloud core) instance, and create a separate dashboard for each team.
- D. Create a separate Looker Studio report for each team, and share each report with the individuals within each team.

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation:

For an enterprise BI platform with data access control across teams, Google recommends Looker (Google Cloud core) over Looker Studio for its robust access management. The "first" step focuses on setting up the foundation.

* Option A: Looker Studio reports are lightweight but lack granular access control beyond sharing.

Creating separate reports per team is inefficient and unscalable.

* Option B: One Looker Studio report with multiple pages and data sources doesn't enforce team-level access control natively- users could access all pages/data.

* Option C: Creating a Looker instance with separate dashboards per team is a step forward but skips the foundational access control setup (groups), reducing scalability.

NEW QUESTION # 77

Your organization has several datasets in their data warehouse in BigQuery. Several analyst teams in different departments use the datasets to run queries. Your organization is concerned about the variability of their monthly BigQuery costs. You need to identify a solution that creates a fixed budget for costs associated with the queries run by each department. What should you do?

- **A. Assign each analyst to a separate project associated with their department. Create a single reservation for each department by using BigQuery editions. Create assignments for each project in the appropriate reservation.**
- B. Assign each analyst to a separate project associated with their department. Create a single reservation by using BigQuery editions. Assign all projects to the reservation.
- C. Create a custom quota for each analyst in BigQuery.
- D. Create a single reservation by using BigQuery editions. Assign all analysts to the reservation.

Answer: A

Explanation:

Assigning each analyst to a separate project associated with their department and creating a single reservation for each department using BigQuery editions allows for precise cost management. By assigning each project to its department's reservation, you can allocate fixed compute resources and budgets for each department, ensuring that their query costs are predictable and controlled. This approach aligns with your organization's goal of creating a fixed budget for query costs while maintaining departmental separation and accountability.

NEW QUESTION # 78

You are designing an application that will interact with several BigQuery datasets. You need to grant the application's service account permissions that allow it to query and update tables within the datasets, and list all datasets in a project within your application. You want to follow the principle of least privilege. Which pre-defined IAM role(s) should you apply to the service account?

- A. roles/bigquery.connectionUser and roles/bigquery.dataViewer
- B. roles/bigquery.admin
- **C. roles/bigquery.jobUser and roles/bigquery.dataOwner**
- D. roles/bigquery.user and roles/bigquery.filteredDataViewer

Answer: C

Explanation:

* roles/bigquery.jobUser:

* This role allows a user or service account to run BigQuery jobs, including queries. This is necessary for the application to interact with and query the tables.

* From Google Cloud documentation: "BigQuery Job User can run BigQuery jobs, including queries, load jobs, export jobs, and copy jobs."

* roles/bigquery.dataOwner:

* This role grants full control over BigQuery datasets and tables. It allows the service account to update tables, which is a requirement of the application.

* From Google Cloud documentation: "BigQuery Data Owner can create, delete, and modify BigQuery datasets and tables. BigQuery Data Owner can also view data and run queries."

* Why other options are incorrect:

* B. roles/bigquery.connectionUser and roles/bigquery.dataViewer:

* roles/bigquery.connectionUser is used for external connections, which is not required for this task. roles/bigquery.dataViewer only allows viewing data, not updating it.

* C. roles/bigquery.admin:

* roles/bigquery.admin grants excessive permissions. Following the principle of least privilege, this role is too broad.

* D. roles/bigquery.user and roles/bigquery.filteredDataViewer:

* roles/bigquery.user grants the ability to run queries, but not the ability to modify data. roles

/bigquery.filteredDataViewer only provides permission to view filtered data, which is not sufficient for updating tables.

* Principle of Least Privilege:

* The principle of least privilege is a security concept that states that a user or service account should be granted only the permissions necessary to perform its intended tasks.

* By assigning roles/bigquery.jobUser and roles/bigquery.dataOwner, we provide the application with the exact permissions it needs without granting unnecessary access.

* Google Cloud Documentation References:

* BigQuery IAM roles:<https://cloud.google.com/bigquery/docs/access-control-basic-roles>

* IAM best practices:<https://cloud.google.com/iam/docs/best-practices-for-using-iam>

NEW QUESTION # 79

You have a Cloud SQL for PostgreSQL database that stores sensitive historical financial data. You need to ensure that the data is uncorrupted and recoverable in the event that the primary region is destroyed. The data is valuable, so you need to prioritize recovery point objective (RPO) over recovery time objective (RTO). You want to recommend a solution that minimizes latency for primary read and write operations. What should you do?

- A. Configure the Cloud SQL for PostgreSQL instance for multi-region backup locations.
- **B. Configure the Cloud SQL for PostgreSQL instance for regional availability (HA) with synchronous replication to a secondary instance in a different zone.**
- C. Configure the Cloud SQL for PostgreSQL instance for regional availability (HA). Back up the Cloud SQL for PostgreSQL database hourly to a Cloud Storage bucket in a different region.
- D. Configure the Cloud SQL for PostgreSQL instance for regional availability (HA) with asynchronous replication to a secondary instance in a different region.

Answer: B

Explanation:

Comprehensive and Detailed in Depth Explanation:

Why D is correct: Synchronous replication ensures that data is written to both the primary and secondary instances at the same time, minimizing data loss (RPO).

Regional availability (HA) within different zones provides redundancy within the same region, minimizing latency.

Why other options are incorrect: A: Asynchronous replication has a potential for data loss.

B: Multiregion backups are for disaster recovery, not minimizing latency.

C: Hourly backups do not provide the lowest possible RPO.

NEW QUESTION # 80

You manage a Cloud Storage bucket that stores temporary files created during data processing. These temporary files are only needed for seven days, after which they are no longer needed. To reduce storage costs and keep your bucket organized, you want to automatically delete these files once they are older than seven days. What should you do?

- A. Develop a batch process using Dataflow that runs weekly and deletes files based on their age.
- B. Set up a Cloud Scheduler job that invokes a weekly Cloud Run function to delete files older than seven days.
- **C. Configure a Cloud Storage lifecycle rule that automatically deletes objects older than seven days.**
- D. Create a Cloud Run function that runs daily and deletes files older than seven days.

Answer: C

Explanation:

Configuring a Cloud Storage lifecycle rule to automatically delete objects older than seven days is the best solution because:

Built-in feature: Cloud Storage lifecycle rules are specifically designed to manage object lifecycles, such as automatically deleting or transitioning objects based on age.

No additional setup: It requires no external services or custom code, reducing complexity and maintenance.

Cost-effective: It directly achieves the goal of deleting files after seven days without incurring additional compute costs.

NEW QUESTION # 81

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