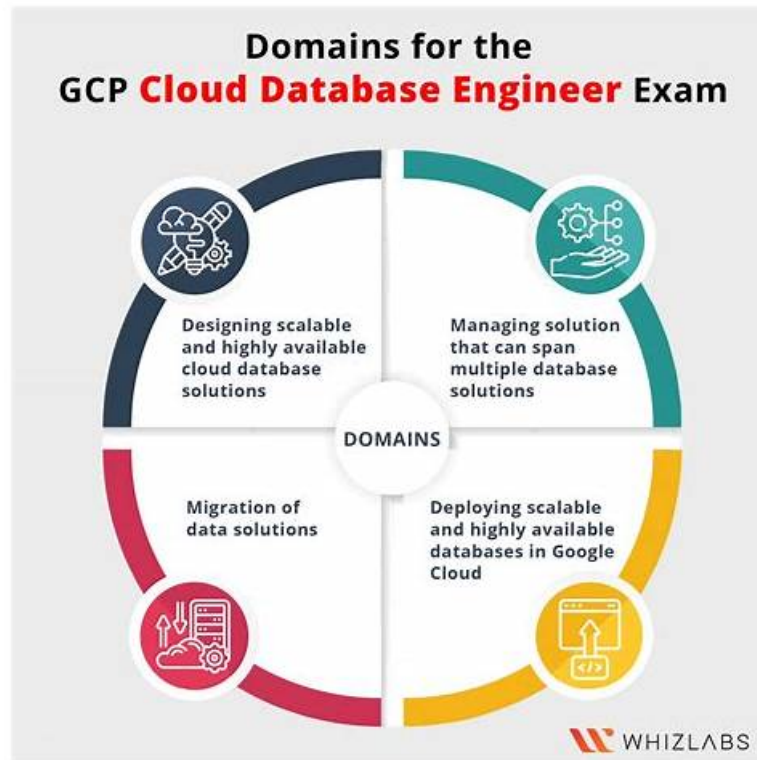


# Professional-Cloud-Database-Engineer Exam Duration & Latest Professional-Cloud-Database-Engineer Dumps



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Google Professional-Cloud-Database-Engineer Certification Exam is a rigorous test that requires a deep understanding of Google Cloud Platform's database services. Candidates must have experience with Google Cloud SQL, Cloud Spanner, Cloud Bigtable, and other Google Cloud Platform database services. They should also have a good understanding of database design, data modeling, and database optimization.

>> Professional-Cloud-Database-Engineer Exam Duration <<

## Assess Yourself with the Google Professional-Cloud-Database-Engineer Desktop Practice Test Software

Contending for the success fruit of Professional-Cloud-Database-Engineer practice exam, many customers have been figuring out the effective ways to pass it. Due to the shortage of useful practice materials or being scanty for them, we listed these traits of our Professional-Cloud-Database-Engineer practice materials. Actually, some practice materials are shooting the breeze about their effectiveness, but our Professional-Cloud-Database-Engineer practice materials are real high quality Professional-Cloud-Database-Engineer practice materials with passing rate up to 98 to 100 percent.

The Google Professional-Cloud-Database-Engineer Exam measures an individual's knowledge and skills in various areas, including database design, development, management, monitoring, and optimization. It also tests one's ability to use Google Cloud Platform services such as Cloud SQL, Cloud Spanner, Cloud Bigtable, and Cloud Datastore to build and manage cloud-based databases.

## Google Cloud Certified - Professional Cloud Database Engineer Sample Questions (Q71-Q76):

### NEW QUESTION # 71

You are building an application that allows users to customize their website and mobile experiences. The application will capture user information and preferences. User profiles have a dynamic schema, and users can add or delete information from their profile. You need to ensure that user changes automatically trigger updates to your downstream BigQuery data warehouse. What should you do?

- A. Use Cloud SQL, and create different tables for user profile data and user preferences from your recommendations model. Use SQL to join the user profile data and preferences
- **B. Use Firestore in Native mode, and store user profile data as a document. Update the user profile with preferences specific to that user and use the user identifier to query.**
- C. Use Firestore in Datastore mode, and store user profile data as a document. Update the user profile with preferences specific to that user and use the user identifier to query.
- D. Store your data in Bigtable, and use the user identifier as the key. Use one column family to store user profile data, and use another column family to store user preferences.

**Answer: B**

Explanation:

Use Firestore in Datastore mode for new server projects. Firestore in Datastore mode allows you to use established Datastore server architectures while removing fundamental Datastore limitations. Datastore mode can automatically scale to millions of writes per second. Use Firestore in Native mode for new mobile and web apps. Firestore offers mobile and web client libraries with real-time and offline features. Native mode can automatically scale to millions of concurrent clients.

### NEW QUESTION # 72

You are evaluating Cloud SQL for PostgreSQL as a possible destination for your on-premises PostgreSQL instances. Geography is becoming increasingly relevant to customer privacy worldwide. Your solution must support data residency requirements and include a strategy to:

configure where data is stored

control where the encryption keys are stored

govern the access to data

What should you do?

- **A. Use features like customer-managed encryption keys (CMEK), VPC Service Controls, and Identity and Access Management (IAM) policies.**
- B. Create a Cloud SQL for PostgreSQL instance on Google Cloud for the data that does not need to adhere to data residency requirements. Keep the data that must adhere to data residency requirements on-premises. Make application changes to support both databases.
- C. Replicate Cloud SQL databases across different zones.
- D. Allow application access to data only if the users are in the same region as the Google Cloud region for the Cloud SQL for PostgreSQL database.

**Answer: A**

Explanation:

<https://cloud.google.com/blog/products/identity-security/meet-data-residency-requirements-with-google-cloud>

### NEW QUESTION # 73

You are designing a database strategy for a new web application in one region. You need to minimize write latency. What should you do?

- A. Use Cloud SQL with cross-region replicas.
- B. Use high availability (HA) Cloud SQL with multiple zones.
- **C. Use zonal Cloud SQL without high availability (HA).**
- D. Use Cloud Spanner in a regional configuration.

**Answer: C**

Explanation:

<https://docs.google.com/forms/d/e/1FAIpQLSfZ77ZnuUL0NpU-bOtO5QUkC0cnRCe5YKMiubLXwfV3abBqkg/viewform>

#### NEW QUESTION # 74

Your online delivery business that primarily serves retail customers uses Cloud SQL for MySQL for its inventory and scheduling application. The required recovery time objective (RTO) and recovery point objective (RPO) must be in minutes rather than hours as a part of your high availability and disaster recovery design. You need a high availability configuration that can recover without data loss during a zonal or a regional failure. What should you do?

- A. Set up read replicas in different zones of the same region as the primary instance with asynchronous replication, and set up read replicas in different regions with synchronous replication.
- B. Set up all read replicas in the same region as the primary instance with synchronous replication.
- **C. Set up read replicas in different zones of the same region as the primary instance with synchronous replication, and set up read replicas in different regions with asynchronous replication.**
- D. Set up all read replicas in a different region using asynchronous replication.

**Answer: C**

Explanation:

This answer meets the RTO and RPO requirements by using synchronous replication within the same region, which ensures that all writes made to the primary instance are replicated to disks in both zones before a transaction is reported as committed<sup>1</sup>. This minimizes data loss and downtime in case of a zonal or an instance failure, and allows for a quick failover to the standby instance<sup>1</sup>. This answer also meets the high availability and disaster recovery requirements by using asynchronous replication across different regions, which ensures that the data changes made to the primary instance are replicated to the read replicas in other regions with minimal delay<sup>2</sup>. This provides additional redundancy and backup in case of a regional failure, and allows for a manual failover to the read replica in another region<sup>2</sup>.

#### NEW QUESTION # 75

Your organization has a production Cloud SQL for MySQL instance. Your instance is configured with 16 vCPUs and 104 GB of RAM that is running between 90% and 100% CPU utilization for most of the day. You need to scale up the database and add vCPUs with minimal interruption and effort. What should you do?

- A. Issue a `gcloud compute instances update` command to increase the number of vCPUs.
- **B. Issue a `gcloud sql instances patch` command to increase the number of vCPUs.**
- C. Back up the database, create an instance with additional vCPUs, and restore the database.
- D. Update a MySQL database flag to increase the number of vCPUs.

**Answer: B**

Explanation:

<https://cloud.google.com/sdk/gcloud/reference/sql/instances/patch>

#### NEW QUESTION # 76

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