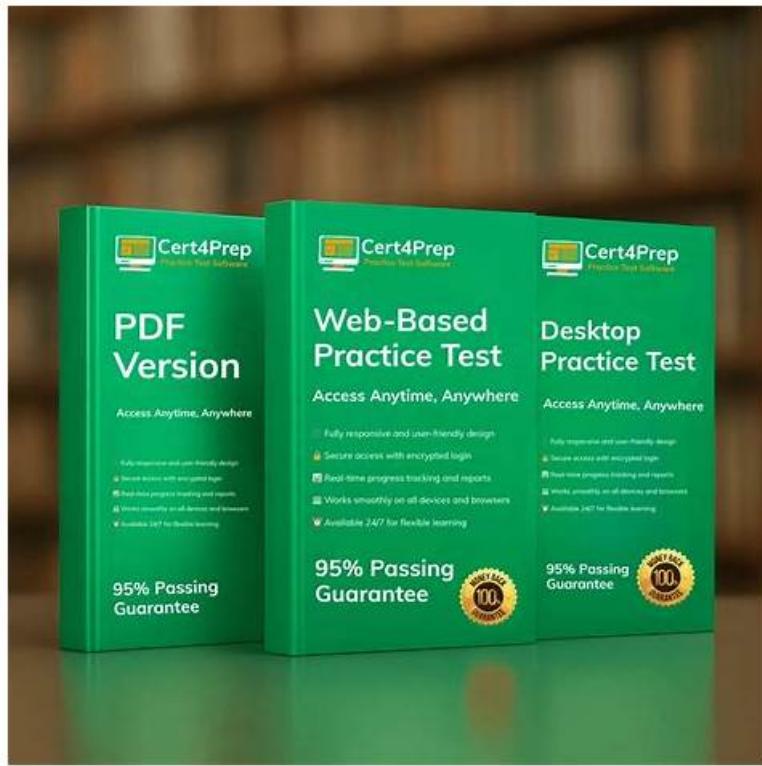


# Perfect Professional-Data-Engineer Latest Exam Pattern | 100% Free Professional-Data-Engineer Reliable Dumps Files



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**The candidates must develop practical skills in the exam topics to succeed. These objectives are highlighted below:**

## Design Data Processing Systems

- **Migrate Data Processing & Data Warehousing:** This section includes validating migrations, migration from on-premises to Cloud, and awareness of the current state & how to migrate designs to the future state.
- **Select the Relevant Storage Technologies:** The considerations for this area include mapping storage systems to the business needs, data modeling, distributed systems, as well as tradeoffs, involving transactions, throughput, and latency;
- **Design Data Processing Solutions:** This topic includes the individuals' expertise in planning, distributed systems usage, choice of infrastructure, hybrid Cloud & edge computing, system availability & fault tolerance. You should also know about the architecture options, including message queues, message brokers, service-oriented architecture, middleware, and serverless function;
- **Design Data Pipeline:** The focus for this subsection includes data visualization & publishing and batch & streaming data (Cloud Dataproc, Cloud Dataflow, Cloud Sub/Pub, Hadoop ecosystem, Apache Spark, Apache Beam, and Apache Kafka). It also focuses on online versus batch prediction and job orchestration & automation;

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### Google Certified Professional Data Engineer Exam Sample Questions (Q336-Q341):

#### NEW QUESTION # 336

Which Java SDK class can you use to run your Dataflow programs locally?

- A. LocalPipelineRunner
- B. LocalRunner
- C. **DirectPipelineRunner**
- D. MachineRunner

**Answer: C**

Explanation:

DirectPipelineRunner allows you to execute operations in the pipeline directly, without any optimization.

Useful for small local execution and tests

Reference: <https://cloud.google.com/dataflow/java-sdk/JavaDoc/com/google/cloud/dataflow/sdk/runners/DirectPipelineRunner>

#### NEW QUESTION # 337

Your new customer has requested daily reports that show their net consumption of Google Cloud compute resources and who used the resources. You need to quickly and efficiently generate these daily reports. What should you do?

- A. Filter data in Cloud Logging by project, log type, resource, and user, then import the data into BigQuery.
- B. **Filter data in Cloud Logging by project, resource, and user; then export the data in CSV format.**
- C. Export Cloud Logging data to Cloud Storage in CSV format. Cleanse the data using Dataprep, filtering by project, resource, and user.
- D. Do daily exports of Cloud Logging data to BigQuery. Create views filtering by project, log type, resource, and user.

**Answer: B**

Explanation:

<https://cloud.google.com/logging/docs/view/logs-explorer-interface?cloudshell=true>

#### NEW QUESTION # 338

You are designing a real-time system for a ride hailing app that identifies areas with high demand for rides to effectively reroute available drivers to meet the demand. The system ingests data from multiple sources to Pub/Sub, processes the data, and stores the results for visualization and analysis in real-time dashboards. The data sources include driver location updates every 5 seconds and app-based booking events from riders. The data processing involves real-time aggregation of supply and demand data for the last 30 seconds, every 2 seconds, and storing the results in a low-latency system for visualization. What should you do?

- A. Group the data by using a tumbling window in a Dataflow pipeline, and write the aggregated data to Memorystore
- B. **Group the data by using a hopping window in a Dataflow pipeline, and write the aggregated data to Memorystore**
- C. Group the data by using a session window in a Dataflow pipeline, and write the aggregated data to BigQuery.
- D. Group the data by using a hopping window in a Dataflow pipeline, and write the aggregated data to BigQuery.

**Answer: B**

#### Explanation:

A hopping window is a type of sliding window that advances by a fixed period of time, producing overlapping windows. This is suitable for the scenario where the system needs to aggregate data for the last 30 seconds, every 2 seconds, and provide real-time updates. A Dataflow pipeline can implement the hopping window logic using Apache Beam, and process both streaming and batch data sources. Memorystore is a low-latency, in-memory data store that can serve the aggregated data to the visualization layer. BigQuery is not a good choice for this scenario, as it is not optimized for low-latency queries and frequent updates.

#### NEW QUESTION # 339

Your weather app queries a database every 15 minutes to get the current temperature. The frontend is powered by Google App Engine and serves millions of users. How should you design the frontend to respond to a database failure?

- A. Retry the query every second until it comes back online to minimize staleness of data.
- B. **Retry the query with exponential backoff, up to a cap of 15 minutes.**
- C. Issue a command to restart the database servers.
- D. Reduce the query frequency to once every hour until the database comes back online.

#### Answer: B

#### Explanation:

<https://cloud.google.com/sql/docs/mysql/manage-connections>

#### NEW QUESTION # 340

Your company is in the process of migrating its on-premises data warehousing solutions to BigQuery. The existing data warehouse uses trigger-based change data capture (CDC) to apply updates from multiple transactional database sources on a daily basis. With BigQuery, your company hopes to improve its handling of CDC so that changes to the source systems are available to query in BigQuery in near-real time using log-based CDC streams, while also optimizing for the performance of applying changes to the data warehouse.

Which two steps should they take to ensure that changes are available in the BigQuery reporting table with minimal latency while reducing compute overhead? (Choose two.)

- A. Insert each new CDC record and corresponding operation type in real time to the reporting table, and use a materialized view to expose only the newest version of each unique record.
- B. **Perform a DML INSERT, UPDATE, or DELETE to replicate each individual CDC record in real time directly on the reporting table.**
- C. **Insert each new CDC record and corresponding operation type to a staging table in real time.**
- D. Periodically use a DML MERGE to perform several DML INSERT, UPDATE, and DELETE operations at the same time on the reporting table.
- E. Periodically DELETE outdated records from the reporting table.

#### Answer: B,C

#### NEW QUESTION # 341

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