

一番優秀な Professional-Data-Engineer テスト模擬問題集と更新する Professional-Data-Engineer テスト問題集



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GoogleのProfessional-Data-Engineer試験に合格するためにたくさんの方がいますが、我々CertShikenの提供する方法が一番効果的なのです。我々IT専門かたちの作成するGoogleのProfessional-Data-Engineerソフトを利用しているとき、あなたは自分の能力の高めを明らかに感じることができます。GoogleのProfessional-Data-Engineer試験は常に更新されていますから、あなたに一番新しい資料を提供するために、我々はご購入の後で一年間の無料更新サービスを提供してあなたに安心させます。

Google Professional-Data-Engineer Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Maintaining and automating data workloads (~15% of the exam)	15%	- Monitoring data pipelines and data processes 1. Logging, monitoring, and troubleshooting 2. Managing quotas and resource usage
		- Automating data processes 1. Continuous integration and continuous deployment (CI/CD) 2. Workflow orchestration 3. Scheduling jobs
		- Designing for reliability and fidelity 1. Recovering from failures 2. Planning for monitoring and alerting 3. Performing data quality and validation checks

Topic 2: Designing data processing systems (~30% of the exam)	30%	- Designing data processing resources • 1. Compute options (Dataflow, Dataproc, Dataplex, Cloud Functions, Cloud Run) • 2. Cluster sizing and autoscaling • 3. Cost optimization - Designing data pipelines • 1. AI data enrichment • 2. Streaming (e.g., windowing, late arriving data) • 3. Integrating with new data sources • 4. Processing logic • 5. Data acquisition and import • 6. Batch processing - Selecting appropriate storage technologies • 1. Choosing between BigQuery, Bigtable, Spanner, Cloud SQL, Cloud Storage, Firestore, Memorystore, AlloyDB • 2. Mapping storage options to business requirements
Topic 3: Preparing and using data for analysis (~15% of the exam)	15%	- Sharing data securely • 1. Publishing datasets • 2. Data sharing and collaboration - Preparing data for visualization • 1. Connecting to Looker and other BI tools • 2. Preparing data for reporting and dashboards - Deploying and operationalizing the pipelines • 1. CI/CD for data pipelines • 2. Job automation and orchestration (Cloud Composer, Workflows)
Topic 4: Ingesting and processing the data (~20% of the exam)	20%	- Building and maintaining data structures and databases • 1. Planning for analytical and operational use cases • 2. Defining data lifecycle - Performing security considerations • 1. Data encryption • 2. Auditing, privacy, and compliance • 3. Identity and Access Management (IAM)

- Selecting storage systems

- 1. Planning for storage costs and performance
- 2. Lifecycle management of data
- 3. Analyzing data access patterns

- Designing for a data platform

- 1. Building a data platform using Dataplex, Dataplex Catalog, BigQuery, Cloud Storage
- 2. Building a federated governance model for distributed data systems

Topic 5: Storing the data (~20% of the exam) 20%

- Planning for using a data warehouse

- 1. Defining architecture to support data access patterns
- 2. Designing the data model
- 3. Deciding the degree of data normalization
- 4. Mapping business requirements

- Using a data lake

- 1. Managing the lake (data discovery, access, cost controls)
- 2. Processing data
- 3. Monitoring the data lake

>> Professional-Data-Engineerテスト模擬問題集 <<

Professional-Data-Engineerテスト問題集、Professional-Data-Engineer資格試験

皆が知っているように、試験はほとんどの学生にとって難しい問題ですが、テストProfessional-Data-Engineer認定を取得し、関連する証明書を取得することは、労働者にとって非常に重要です。ただし、幸いなことに、この種の問題を心配する必要はありません。最良のソリューションであるProfessional-Data-Engineer実践教材を見つけることができるからです。当社の技術と継続的な投資と研究の補助設備により、当社の将来は明るいです。Professional-Data-Engineer学習ツールには多くの利点があり、Professional-Data-Engineer試験問題の合格率は99%~100%です。。

Google Certified Professional Data Engineer Exam 認定 Professional-Data-Engineer 試験問題 (Q374-Q379):

質問 # 374

Which SQL keyword can be used to reduce the number of columns processed by BigQuery?

- A. BETWEEN
- B. LIMIT
- C. WHERE
- D. SELECT

正解: D

解説:

SELECT allows you to query specific columns rather than the whole table.

LIMIT, BETWEEN, and WHERE clauses will not reduce the number of columns processed by BigQuery.

質問 # 375

You're training a model to predict housing prices based on an available dataset with real estate properties. Your plan is to train a fully connected neural net, and you've discovered that the dataset contains latitude and longitude of the property. Real estate

professionals have told you that the location of the property is highly influential on price, so you'd like to engineer a feature that incorporates this physical dependency.

What should you do?

- **A. Create a feature cross of latitude and longitude, bucketize at the minute level and use L1 regularization during optimization.**
- B. Provide latitude and longitude as input vectors to your neural net.
- C. Create a numeric column from a feature cross of latitude and longitude.
- D. Create a feature cross of latitude and longitude, bucketize it at the minute level and use L2 regularization during optimization.

正解: A

解説:

Reference <https://cloud.google.com/bigquery/docs/gis-data>

質問 # 376

When a Cloud Bigtable node fails, _____ is lost.

- **A. no data**
- B. the time dimension
- C. all data
- D. the last transaction

正解: A

解説:

A Cloud Bigtable table is sharded into blocks of contiguous rows, called tablets, to help balance the workload of queries. Tablets are stored on Colossus, Google's file system, in SSTable format. Each tablet is associated with a specific Cloud Bigtable node. Data is never stored in Cloud Bigtable nodes themselves; each node has pointers to a set of tablets that are stored on Colossus. As a result:

Rebalancing tablets from one node to another is very fast, because the actual data is not copied. Cloud Bigtable simply updates the pointers for each node. Recovery from the failure of a Cloud Bigtable node is very fast, because only metadata needs to be migrated to the replacement node.

When a Cloud Bigtable node fails, no data is lost

Reference: <https://cloud.google.com/bigtable/docs/overview>

質問 # 377

An online retailer has built their current application on Google App Engine. A new initiative at the company mandates that they extend their application to allow their customers to transact directly via the application.

They need to manage their shopping transactions and analyze combined data from multiple datasets using a business intelligence (BI) tool. They want to use only a single database for this purpose. Which Google Cloud database should they choose?

- A. Cloud SQL
- **B. Cloud BigTable**
- C. Cloud Datastore
- D. BigQuery

正解: B

解説:

ference: <https://cloud.google.com/solutions/business-intelligence/>

質問 # 378

You need to create a data pipeline that copies time-series transaction data so that it can be queried from within BigQuery by your data science team for analysis. Every hour, thousands of transactions are updated with a new status. The size of the initial dataset is 1.5 PB, and it will grow by 3 TB per day. The data is heavily structured, and your data science team will build machine learning models based on this data. You want to maximize performance and usability for your data science team. Which two strategies should you adopt? (Choose two.)

- A. Preserve the structure of the data as much as possible.
- **B. Denormalize the data as must as possible.**
- C. Use BigQuery UPDATE to further reduce the size of the dataset.
- D. Copy a daily snapshot of transaction data to Cloud Storage and store it as an Avro file. Use BigQuery's support for external data sources to query.
- **E. Develop a data pipeline where status updates are appended to BigQuery instead of updated.**

正解: B、E

解説:

Denormalization will help in performance by reducing query time, update are not good with bigquery.

質問 # 379

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