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**Interactive Google Professional-Data-Engineer EBook - Professional-Data-Engineer Questions Pdf**

At PDFTorrent, we are aware that every applicant of the Google Certified Professional Data Engineer Exam (Professional-Data-Engineer) examination is different. We know that everyone has a distinct learning style, situations, and set of goals, therefore we offer Google Professional-Data-Engineer updated exam preparation material in three easy-to-use formats to accommodate every exam applicant's needs. This article will go over the three formats of the Google Certified Professional Data Engineer Exam (Professional-Data-Engineer) practice material that we offer.

## Google Certified Professional Data Engineer Exam Sample Questions (Q154-Q159):

### NEW QUESTION # 154

Your company is running their first dynamic campaign, serving different offers by analyzing real-time data during the holiday season. The data scientists are collecting terabytes of data that rapidly grows every hour during their 30-day campaign. They are using Google Cloud Dataflow to preprocess the data and collect the feature (signals) data that is needed for the machine learning model in Google Cloud Bigtable.

The team is observing suboptimal performance with reads and writes of their initial load of 10 TB of data.

They want to improve this performance while minimizing cost. What should they do?

- A. The performance issue should be resolved over time as the size of the BigData cluster is increased.
- **B. Redefine the schema by evenly distributing reads and writes across the row space of the table.**
- C. Redesign the schema to use row keys based on numeric IDs that increase sequentially per user viewing the offers.
- D. Redesign the schema to use a single row key to identify values that need to be updated frequently in the cluster.

**Answer: B**

### NEW QUESTION # 155

Scaling a Cloud Dataproc cluster typically involves \_\_\_\_.

- A. increasing or decreasing the number of master nodes
- B. deleting applications from unused nodes periodically
- C. moving memory to run more applications on a single node
- **D. increasing or decreasing the number of worker nodes**

**Answer: D**

Explanation:

After creating a Cloud Dataproc cluster, you can scale the cluster by increasing or decreasing the number of worker nodes in the cluster at any time, even when jobs are running on the cluster. Cloud Dataproc clusters are typically scaled to:

- 1) increase the number of workers to make a job run faster
- 2) decrease the number of workers to save money
- 3) increase the number of nodes to expand available Hadoop Distributed Filesystem (HDFS) storage

### NEW QUESTION # 156

You are creating a data model in BigQuery that will hold retail transaction data. Your two largest tables, sales\_transaction\_header and sales\_transaction\_line, have a tightly coupled immutable relationship. These tables are rarely modified after load and are frequently joined when queried. You need to model the sales\_transaction\_header and sales\_transaction\_line tables to improve the performance of data analytics queries.

What should you do?

- A. Create separate sales\_transaction\_header and sales\_transaction\_line tables and, when querying, specify the sales transaction line first in the WHERE clause.
- **B. Create a sales\_transaction table that holds the sales\_transaction\_header information as rows and the sales\_transaction\_line rows as nested and repeated fields.**
- C. Create a sales\_transaction table that holds the sales\_transaction\_header and sales\_transaction\_line information as rows, duplicating the sales\_transaction\_header data for each line.
- D. Create a sales\_transaction table that Stores the sales\_transaction\_header and sales\_transaction\_line data as a JSON data type.

**Answer: B**

Explanation:

BigQuery supports nested and repeated fields, which are complex data types that can represent hierarchical and one-to-many relationships within a single table. By using nested and repeated fields, you can denormalize your data model and reduce the number of joins required for your queries. This can improve the performance and efficiency of your data analytics queries, as joins can be expensive and require shuffling data across nodes.

Nested and repeated fields also preserve the data integrity and avoid data duplication. In this scenario, the sales\_transaction\_header and sales\_transaction\_line tables have a tightly coupled immutable relationship, meaning that each header row corresponds to one or more line rows, and the data is rarely modified after load.

Therefore, it makes sense to create a single sales\_transaction table that holds the sales\_transaction\_header information as rows and the sales\_transaction\_line rows as nested and repeated fields. This way, you can query the sales transaction data without joining two tables, and use dot notation or array functions to access the nested and repeated fields. For example, the sales\_transaction table could have the following schema:

Table	Field name	Type	Mode
	id	INTEGER	NULLABLE
	order_time	TIMESTAMP	NULLABLE
	customer_id	INTEGER	NULLABLE
	line_items	RECORD	REPEATED
	line_items.sku	STRING	NULLABLE
	line_items.quantity	INTEGER	NULLABLE
	line_items.price	FLOAT	NULLABLE

To query the total amount of each order, you could use the following SQL statement:

```
SQL
SELECT id, SUM(line_items.quantity * line_items.price) AS total_amount
FROM sales_transaction
GROUP BY id;
```

AI-generated code. Review and use carefully. More info on FAQ.

References:

- \* Use nested and repeated fields
- \* BigQuery explained: Working with joins, nested & repeated data
- \* Arrays in BigQuery - How to improve query performance and optimise storage

### NEW QUESTION # 157

Which of these numbers are adjusted by a neural network as it learns from a training dataset (select 2 answers)?

- A. Continuous features
- B. Input values
- C. Biases
- D. Weights

**Answer: C,D**

Explanation:

A neural network is a simple mechanism that's implemented with basic math. The only difference between the traditional

programming model and a neural network is that you let the computer determine the parameters (weights and bias) by learning from training datasets.

### NEW QUESTION # 158

Your team is working on a binary classification problem. You have trained a support vector machine (SVM) classifier with default parameters, and received an area under the Curve (AUC) of 0.87 on the validation set.

You want to increase the AUC of the model. What should you do?

- A. Train a classifier with deep neural networks, because neural networks would always beat SVMs
- **B. Perform hyperparameter tuning**
- C. Deploy the model and measure the real-world AUC; it's always higher because of generalization
- D. Scale predictions you get out of the model (tune a scaling factor as a hyperparameter) in order to get the highest AUC

**Answer: B**

Explanation:

<https://towardsdatascience.com/understanding-hyperparameters-and-its-optimisation-techniques-f0debba07568>

### NEW QUESTION # 159

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