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Genesys GCP-GCX Genesys Cloud CX Certified Professional-Consolidated Exam 4

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2026 Die neuesten ZertSoft Databricks-Certified-Professional-Data-Engineer PDF-Versionen Prüfungsfragen und Databricks-Certified-Professional-Data-Engineer Fragen und Antworten sind kostenlos verfügbar: https://drive.google.com/open?id=1fW5gsA3-qQp5UVkTz2AbM4h4L_SD2sGY

Mit der Ankunft der Informationsepoche im 21. Jahrhundert wird das Databricks Databricks-Certified-Professional-Data-Engineer Zertifikat auch unerlässlich in der IT-Branche. Ob Sie ein Anfänger oder ein Pendler sind, können Sie Ihre erwünschte Ergebnisse nur mit Hälfte der Bemühungen von anderen erzielen, denn es gibt bei ZertSoft für Sie maßgeschneiderte Fragenkataloge zur Databricks Databricks-Certified-Professional-Data-Engineer Zertifizierungsprüfung. ZertSoft wird Ihnen begleiten, für den Traum zu kämpfen. Worauf warten Sie noch?

Die Prüfung ist ideal für Daten-Ingenieure, die ihre Expertise im Entwurf, Aufbau und der Wartung von Big-Data-Verarbeitungspipelines mit Databricks demonstrieren möchten. Die Zertifizierungsprüfung ist auf die spezifischen Rollen und Verantwortlichkeiten eines Daten-Ingenieurs zugeschnitten und umfasst eine Reihe von Themen, einschließlich Daten-Erfassung, Daten-Transformationen, Daten-Speicherung und Daten-Analyse. Durch das Bestehen der Prüfung können Kandidaten ihre Kompetenz im Umgang mit Databricks bei der Lösung komplexer Big-Data-Herausforderungen demonstrieren.

Die Zertifizierungsprüfung für Datenbanken zertifizierte professionelle Dateningenieur ist eine wertvolle Zertifizierung für

Datenfachleute, die ihre Fähigkeiten beim Erstellen und Verwalten komplexer Datenlösungen auf der Datenbankplattform demonstrieren möchten. Die Prüfung wurde entwickelt, um das Wissen und die Fähigkeiten zu testen, die zum Entwerfen, Implementieren und Verwalten von Daten Engineering - Workflows in einer kollaborativen Umgebung erforderlich sind. Kandidaten, die die Prüfung bestehen, haben ein tiefes Verständnis der Datenbanken - Technologien und können skalierbare und zuverlässige Datenlösungen erstellen und verwalten.

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Databricks-Certified-Professional-Data-Engineer PrüfungGuide, Databricks Databricks-Certified-Professional-Data-Engineer Zertifikat - Databricks Certified Professional Data Engineer Exam

Warum wollen wir, Sie vor dem Kaufen der Databricks Databricks-Certified-Professional-Data-Engineer Prüfungsunterlagen zuerst zu probieren? Warum dürfen wir garantieren, dass Ihr Geld für die Software zurückgeben, falls Sie in der Databricks Databricks-Certified-Professional-Data-Engineer Prüfung durchfallen? Der Grund liegt auf unserer Konfidenz für unsere Produkte. Die Databricks Databricks-Certified-Professional-Data-Engineer Prüfung wird fortlaufend aktualisiert und wir aktualisieren gleichzeitig unsere Software.

Die Databricks Certified Professional Data Engineer Exam ist eine hervorragende Möglichkeit für Dateningenieure, ihre Expertise im Umgang mit der Databricks-Plattform zu demonstrieren. Es bietet Arbeitgebern eine Möglichkeit, die Fähigkeiten potenzieller Kandidaten zu validieren und stellt sicher, dass Dateningenieure über das Wissen und die Fähigkeiten verfügen, die für eine effektive Arbeit mit Databricks erforderlich sind.

Databricks Certified Professional Data Engineer Exam Databricks-Certified-Professional-Data-Engineer Prüfungsfragen mit Lösungen (Q109-Q114):

109. Frage

An upstream system has been configured to pass the date for a given batch of data to the Databricks Jobs API as a parameter. The notebook to be scheduled will use this parameter to load data with the following code:

```
df= spark.read.format("parquet").load(f"/mnt/source/{date}")
```

Which code block should be used to create the date Python variable used in the above code block?

- A. `input_dict = input()`
`date= input_dict["date"]`
- **B. `dbutils.widgets.text("date", "null")`**
`date = dbutils.widgets.get("date")`
- C. `date = spark.conf.get("date")`
- D. `date = dbutils.notebooks.getParam("date")`
- E. `import sys`
`date = sys.argv[1]`

Antwort: B

Begründung:

The code block that should be used to create the date Python variable used in the above code block is:

`dbutils.widgets.text("date", "null")` `date = dbutils.widgets.get("date")` This code block uses the `dbutils.widgets` API to create and get a text widget named "date" that can accept a string value as a parameter¹. The default value of the widget is "null", which means that if no parameter is passed, the date variable will be "null". However, if a parameter is passed through the Databricks Jobs API, the date variable will be assigned the value of the parameter. For example, if the parameter is "2021-11-01", the date variable will be "2021-11-01". This way, the notebook can use the date variable to load data from the specified path.

The other options are not correct, because:

* Option A is incorrect because `spark.conf.get("date")` is not a valid way to get a parameter passed through the Databricks Jobs API. The `spark.conf` API is used to get or set Spark configuration properties, not notebook parameters².

* Option B is incorrect because `input()` is not a valid way to get a parameter passed through the Databricks Jobs API. The `input()` function is used to get user input from the standard input stream, not from the API request³.

* Option C is incorrect because `sys.argv1` is not a valid way to get a parameter passed through the Databricks Jobs API. The `sys.argv` list is used to get the command-line arguments passed to a Python script, not to a notebook⁴.

* Option D is incorrect because `dbutils.notebooks.getParam("date")` is not a valid way to get a parameter passed through the Databricks Jobs API. The `dbutils.notebooks` API is used to get or set notebook parameters when running a notebook as a job or as

a subnotebook, not when passing parameters through the API5.
References: Widgets, Spark Configuration, input(), sys.argv, Notebooks

110. Frage

A small company based in the United States has recently contracted a consulting firm in India to implement several new data engineering pipelines to power artificial intelligence applications. All the company's data is stored in regional cloud storage in the United States.

The workspace administrator at the company is uncertain about where the Databricks workspace used by the contractors should be deployed.

Assuming that all data governance considerations are accounted for, which statement accurately informs this decision?

- A. Cross-region reads and writes can incur significant costs and latency; whenever possible, compute should be deployed in the same region the data is stored.
- B. Databricks notebooks send all executable code from the user's browser to virtual machines over the open internet; whenever possible, choosing a workspace region near the end users is the most secure.
- C. Databricks leverages user workstations as the driver during interactive development; as such, users should always use a workspace deployed in a region they are physically near.
- D. Databricks runs HDFS on cloud volume storage; as such, cloud virtual machines must be deployed in the region where the data is stored.
- E. Databricks workspaces do not rely on any regional infrastructure; as such, the decision should be made based upon what is most convenient for the workspace administrator.

Antwort: A

Begründung:

Explanation

This is the correct answer because it accurately informs this decision. The decision is about where the Databricks workspace used by the contractors should be deployed. The contractors are based in India, while all the company's data is stored in regional cloud storage in the United States. When choosing a region for deploying a Databricks workspace, one of the important factors to consider is the proximity to the data sources and sinks. Cross-region reads and writes can incur significant costs and latency due to network bandwidth and data transfer fees. Therefore, whenever possible, compute should be deployed in the same region the data is stored to optimize performance and reduce costs. Verified References: [Databricks Certified Data Engineer Professional], under "Databricks Workspace" section; Databricks Documentation, under "Choose a region" section.

111. Frage

A junior data engineer is working to implement logic for a Lakehouse table named `silver_device_recordings`.

The source data contains 100 unique fields in a highly nested JSON structure.

The `silver_device_recording` table will be used downstream to power several production monitoring dashboards and a production model. At present, 45 of the 100 fields are being used in at least one of these applications.

The data engineer is trying to determine the best approach for dealing with schema declaration given the highly-nested structure of the data and the numerous fields.

Which of the following accurately presents information about Delta Lake and Databricks that may impact their decision-making process?

- A. Because Databricks will infer schema using types that allow all observed data to be processed, setting types manually provides greater assurance of data quality enforcement.
- B. The Tungsten encoding used by Databricks is optimized for storing string data; newly-added native support for querying JSON strings means that string types are always most efficient.
- C. Schema inference and evolution on Databricks ensure that inferred types will always accurately match the data types used by downstream systems.
- D. Human labor in writing code is the largest cost associated with data engineering workloads; as such, automating table declaration logic should be a priority in all migration workloads.
- E. Because Delta Lake uses Parquet for data storage, data types can be easily evolved by just modifying file footer information in place.

Antwort: A

Begründung:

This is the correct answer because it accurately presents information about Delta Lake and Databricks that may impact the decision-

making process of a junior data engineer who is trying to determine the best approach for dealing with schema declaration given the highly-nested structure of the data and the numerous fields. Delta Lake and Databricks support schema inference and evolution, which means that they can automatically infer the schema of a table from the source data and allow adding new columns or changing column types without affecting existing queries or pipelines. However, schema inference and evolution may not always be desirable or reliable, especially when dealing with complex or nested data structures or when enforcing data quality and consistency across different systems. Therefore, setting types manually can provide greater assurance of data quality enforcement and avoid potential errors or conflicts due to incompatible or unexpected data types. Verified References: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Schema inference and partition of streaming DataFrames /Datasets" section.

112. Frage

You have configured AUTO LOADER to process incoming IOT data from cloud object storage every 15 mins, recently a change was made to the notebook code to update the processing logic but the team later realized that the notebook was failing for the last 24 hours, what steps team needs to take to reprocess the data that was not loaded after the notebook was corrected?

- A. Manually re-load the data
- **B. Autoloader automatically re-processes data that was not loaded**
- C. Enable back_fill = TRUE to reprocess the data
- D. Move the files that were not processed to another location and manually copy the files into the ingestion path to reprocess them
- E. Delete the checkpoint folder and run the autoloader again

Antwort: B

Begründung:

Explanation

The answer is,

Autoloader automatically re-processes data that was not loaded using the checkpoint.

113. Frage

The data engineering team is using a bunch of SQL queries to review data quality and monitor the ETL job every day, which of the following approaches can be used to set up a schedule and auto-mate this process?

- A. They can schedule the query to run every 1 day from the Jobs UI
- **B. They can schedule the query to refresh every 1 day from the query's page in Databricks SQL.**
- C. They can schedule the query to refresh every 12 hours from the SQL endpoint's page in Databricks SQL
- D. They can schedule the query to run every 12 hours from the Jobs UI.
- E. They can schedule the query to refresh every 1 day from the SQL endpoint's page in Databricks SQL.

Antwort: B

Begründung:

Explanation

Explanation

Individual queries can be refreshed on a schedule basis,

To set the schedule:

1. Click the query info tab.

Graphical user interface, text, application, email Description automatically generated

* Click the link to the right of Refresh Schedule to open a picker with schedule intervals.

Graphical user interface, application Description automatically generated

* Set the schedule.

The picker scrolls and allows you to choose:

* An interval: 1-30 minutes, 1-12 hours, 1 or 30 days, 1 or 2 weeks

* A time. The time selector displays in the picker only when the interval is greater than 1 day and the day selection is greater than 1 week. When you schedule a specific time, Databricks SQL takes input in your computer's timezone and converts it to UTC. If you want a query to run at a certain time in UTC, you must adjust the picker by your local offset. For example, if you want a query to execute at 00:00 UTC each day, but your current timezone is PDT (UTC-7), you should select 17:00 in the picker:

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* Click OK.

Your query will run automatically.

If you experience a scheduled query not executing according to its schedule, you should manually trigger the query to make sure it doesn't fail. However, you should be aware of the following:

* If you schedule an interval-for example, "every 15 minutes"-the interval is calculated from the last successful execution. If you manually execute a query, the scheduled query will not be executed until the interval has passed.

* If you schedule a time, Databricks SQL waits for the results to be "outdated". For example, if you have a query set to refresh every Thursday and you manually execute it on Wednesday, by Thursday the results will still be considered "valid", so the query wouldn't be scheduled for a new execution. Thus, for example, when setting a weekly schedule, check the last query execution time and expect the scheduled query to be executed on the selected day after that execution is a week old. Make sure not to manually execute the query during this time.

If a query execution fails, Databricks SQL retries with a back-off algorithm. The more failures the further away the next retry will be (and it might be beyond the refresh interval).

Refer documentation for additional info,

<https://docs.microsoft.com/en-us/azure/databricks/sql/user/queries/schedule-query>

114. Frage

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