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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q191-Q196):

NEW QUESTION # 191
A data engineer needs to optimize the performance of a data pipeline that handles retail orders. Data about the orders is ingested daily into an Amazon S3 bucket.
The data engineer runs queries once each week to extract metrics from the orders data based on the order date for multiple date ranges. The data engineer needs an optimization solution that ensures the query performance will not degrade when the volume of data increases.

- A. Partition the data based on load date. Use Amazon Aurora to query the data.
- B. Partition the data based on order date. Use Amazon Athena to query the data.
- C. Partition the data based on order date. Use Amazon Redshift to query the data.
- D. Partition the data based on load date. Use Amazon EMR to query the data.

Answer: B

Explanation:

For query workloads on S3 data that depend on date-based filters, partitioning by order date optimizes performance and cost because Athena reads only the relevant partitions.

Athena scales automatically and doesn't degrade with increasing data size when partitions are managed efficiently.

"Partitioning data in Amazon S3 based on query predicates such as order date improves Athena query performance and reduces scanned data volume."

- Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf This is the most cost-effective and scalable option for date-based queries.

NEW QUESTION # 192

A company has an Amazon Redshift data warehouse that users access by using a variety of IAM roles. More than 100 users access the data warehouse every day.

The company wants to control user access to the objects based on each user's job role, permissions, and how sensitive the data is. Which solution will meet these requirements?

- A. Use the row-level security (RLS) feature of Amazon Redshift.
- B. Use the role-based access control (RBAC) feature of Amazon Redshift.
- C. Use the column-level security (CLS) feature of Amazon Redshift.
- D. Use dynamic data masking policies in Amazon Redshift.

Answer: B

Explanation:

Amazon Redshift supports Role-Based Access Control (RBAC) to manage access to database objects.

RBAC allows administrators to create roles for job functions and assign privileges at the schema, table, or column level based on data sensitivity and user roles.

"RBAC in Amazon Redshift helps manage permissions more efficiently at scale by assigning users to roles that reflect their job function. It simplifies user management and secures access based on job role and data sensitivity."

- Ace the AWS Certified Data Engineer - Associate Certification - version 2 - apple.pdf RBAC is preferred over RLS or CLS alone because it offers a more comprehensive and scalable solution across multiple users and permissions.

NEW QUESTION # 193

A data engineer needs to schedule a workflow that runs a set of AWS Glue jobs every day. The data engineer does not require the Glue jobs to run or finish at a specific time.

Which solution will run the Glue jobs in the MOST cost-effective way?

- A. Choose the latest version in the GlueVersion field in the Glue job properties.
- B. Choose the STANDARD execution class in the Glue job properties.
- C. Choose the FLEX execution class in the Glue job properties.
- D. Use the Spot Instance type in Glue job properties.

Answer: C

Explanation:

The FLEX execution class allows you to run AWS Glue jobs on spare compute capacity instead of dedicated hardware. This can reduce the cost of running non-urgent or non-time sensitive data integration workloads, such as testing and one-time data loads. The FLEX execution class is available for AWS Glue 3.0 Spark jobs. The other options are not as cost-effective as FLEX, because they either use dedicated resources (STANDARD) or do not affect the cost at all (Spot Instance type and GlueVersion). Reference: Introducing AWS Glue Flex jobs: Cost savings on ETL workloads
Serverless Data Integration - AWS Glue Pricing
AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide (Chapter 5, page 125)

NEW QUESTION # 194

A company receives .csv files that contain physical address data. The data is in columns that have the following names: Door_No, Street_Name, City, and Zip_Code. The company wants to create a single column to store these values in the following format:

```
{
    "Door_No": "24",
    "Street_Name": "AAA street",
    "City": "BBB",
    "Zip_Code": "111111"
}
```

Which solution will meet this requirement with the LEAST coding effort?

- A. Use AWS Glue DataBrew to read the files. Use the NEST TO MAP transformation to create the new column.
- B. Use AWS Glue DataBrew to read the files. Use the PIVOT transformation to create the new column.
- C. Use AWS Glue DataBrew to read the files. Use the NEST TO ARRAY transformation to create the new column.
- D. Write a Lambda function in Python to read the files. Use the Python data dictionary type to create the new column.

Answer: A

Explanation:
The NEST TO MAP transformation allows you to combine multiple columns into a single column that contains a JSON object with key-value pairs. This is the easiest way to achieve the desired format for the physical address data, as you can simply select the columns to nest and specify the keys for each column. The NEST TO ARRAY transformation creates a single column that contains an array of values, which is not the same as the JSON object format. The PIVOT transformation reshapes the data by creating new columns from unique values in a selected column, which is not applicable for this use case. Writing a Lambda function in Python requires more coding effort than using AWS Glue DataBrew, which provides a visual and interactive interface for data transformations. References:
* 7 most common data preparation transformations in AWS Glue DataBrew (Section: Nesting and unnesting columns)
* NEST TO MAP - AWS Glue DataBrew (Section: Syntax)

NEW QUESTION # 195
A media company wants to improve a system that recommends media content to customer based on user behavior and preferences.
To improve the recommendation system, the company needs to incorporate insights from third-party datasets into the company's existing analytics platform.
The company wants to minimize the effort and time required to incorporate third-party datasets.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Use API calls to access and integrate third-party datasets from AWS Data Exchange.
- B. Use Amazon Kinesis Data Streams to access and integrate third-party datasets from AWS CodeCommit repositories.
- C. Use API calls to access and integrate third-party datasets from AWS
- D. Use Amazon Kinesis Data Streams to access and integrate third-party datasets from Amazon Elastic Container Registry (Amazon ECR).

Answer: A

Explanation:
AWS Data Exchange is a service that makes it easy to find, subscribe to, and use third-party data in the cloud.
It provides a secure and reliable way to access and integrate data from various sources, such as data providers, public datasets, or AWS services. Using AWS Data Exchange, you can browse and subscribe to data products that suit your needs, and then use API calls or the AWS Management Console to export the data to Amazon S3, where you can use it with your existing analytics platform. This solution minimizes the effort and time required to incorporate third-party datasets, as you do not need to set up and manage data pipelines, storage, or access controls. You also benefit from the data quality and freshness provided by the data providers, who can update their data products as frequently as needed12.
The other options are not optimal for the following reasons:
* B. Use API calls to access and integrate third-party datasets from AWS. This option is vague and does not specify which AWS service or feature is used to access and integrate third-party datasets. AWS offers a variety of services and features that can help with data ingestion, processing, and analysis, but not all of them are suitable for the given scenario. For example, AWS Glue is a serverless data integration service that can help you discover, prepare, and combine data from various sources, but it requires you to create and run data extraction, transformation, and loading (ETL) jobs, which can add operational overhead3.
* C. Use Amazon Kinesis Data Streams to access and integrate third-party datasets from AWS CodeCommit repositories. This option is not feasible, as AWS CodeCommit is a source control service that hosts secure Git-based repositories, not a data source that can be accessed by Amazon Kinesis Data Streams. Amazon Kinesis Data Streams is a service that enables you to capture,

process, and analyze data streams in real time, such as clickstream data, application logs, or IoT telemetry. It does not support accessing and integrating data from AWS CodeCommit repositories, which are meant for storing and managing code, not data .
* D. Use Amazon Kinesis Data Streams to access and integrate third-party datasets from Amazon Elastic Container Registry (Amazon ECR). This option is also not feasible, as Amazon ECR is a fully managed container registry service that stores, manages, and deploys container images, not a data source that can be accessed by Amazon Kinesis Data Streams. Amazon Kinesis Data Streams does not support accessing and integrating data from Amazon ECR, which is meant for storing and managing container images, not data .
:
1: AWS Data Exchange User Guide
2: AWS Data Exchange FAQs
3: AWS Glue Developer Guide
4: AWS CodeCommit User Guide
5: Amazon Kinesis Data Streams Developer Guide
6: Amazon Elastic Container Registry User Guide
7: Build a Continuous Delivery Pipeline for Your Container Images with Amazon ECR as Source

NEW QUESTION # 196

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Active Tasks—Shows only the incomplete and not started tasks, For this reason Test Data-Engineer-Associate Cram Pdf Paul McJones and I decided not to use the term in EoP, but Dan recently convinced me that it is an important term and we should reclaim it.

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