



70-475^{Q&As}

Designing and Implementing Big Data Analytics Solutions

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**QUESTION 1**

You have a data warehouse that contains the sales data of several customers.

You plan to deploy a Microsoft Azure data factory to move additional sales data to the data warehouse.

You need to develop a data factory job that reads reference data from a table in the source data.

Which type of activity should you add to the control flow of the job?

- A. a ForEach activity
- B. a lookup activity
- C. a web activity
- D. a GetMetadata activity

Correct Answer: B

References: <https://docs.microsoft.com/en-us/azure/data-factory/control-flow-lookup-activity>

QUESTION 2

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

the others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You plan to deploy a Microsoft Azure SQL data warehouse and a web application.

The data warehouse will ingest 5 TB of data from an on-premises Microsoft SQL Server database daily. The web application will query the data warehouse.

You need to design a solution to ingest data into the data warehouse.

Solution: You use the bcp utility to export CSV files from SQL Server and then to import the files to Azure SQL Data Warehouse.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

If you need the best performance, then use PolyBase to import data into Azure SQL warehouse. References: <https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-migrate-data>



QUESTION 3

Overview:

Relecloud is a social media company that processes hundreds of millions of social media posts per day and sells advertisements to several hundred companies. Relecloud has a Microsoft SQL Server database named DB1 that stores

information about the advertisers. DB1 is hosted on a Microsoft Azure virtual machine.

Relecloud has two main offices. The offices are located in San Francisco and New York City.

The offices connect to each other by using a site-to-site VPN. Each office connects directly to the Internet.

Relecloud modifies the pricing of its advertisements based on trending topics. Topics are considered to be trending if they generate many mentions in a specific country during a 15-minute time frame. The highest trending topics generate the

highest advertising revenue.

Relecloud wants to deliver reports to the advertisers by using Microsoft Power BI. The reports will provide real-time data on trending topics, current advertising rates, and advertising costs for a given month. Relecloud will analyze the trending

topics data, and then store the data in a new data warehouse for ad-hoc analysis. The data warehouse is expected to grow at a rate of 1 GB per hour or 8.7 terabytes (TB) per year. The data will be retained for five years for the purpose of long-term trending.

Requirements:

Management at Relecloud must be able to view which topics are trending to adjust advertising rates in near real-time.

Relecloud plans to implement a new streaming analytics platform that will report on trending topics.

Relecloud plans to implement a data warehouse named DB2.

Relecloud identifies the following technical requirements:

Social media data must be analyzed to identify trending topics in real-time.

The use of Infrastructure as a Service (IaaS) platforms must be minimized, whenever possible.

The real-time solution used to analyze the social media data must support scaling up and down without service interruption.

Relecloud identifies the following technical requirements for the advertisers:

The advertisers must be able to see only their own data in the Power BI reports.

The advertisers must authenticate to Power BI by using Azure Active Directory (Azure AD) credentials.

The advertisers must be able to leverage existing Transact-SQL language knowledge when developing the real-time streaming solution.



Members of the internal advertising sales team at Relecloud must be able to see only the sales date of the advertisers to which they are assigned.

The internal Relecloud advertising sales team must be prevented from inserting, updating, and deleting rows for the advertisers to which they are not assigned.

The internal Relecloud advertising sales team must be able to use a text file to update the list of advertisers, and then to upload the file to Azure Blob storage.

Relecloud identifies the following requirements for DB1:

Data generated by the streaming analytics platform must be stored in DB1.

The user names of the advertisers must be mapped to CustomerID in a table named Table2.

The advertisers in DB1 must be stored in a table named Table1 and must be refreshed nightly.

The user names of the employees at Relecloud must be mapped to EmployeeID in a table named Table3.

Relecloud identifies the following requirements for DB2:

DB2 must have minimal storage costs.

DB2 must run load processes in parallel.

DB2 must support massive parallel processing.

DB2 must be able to store more than 40 TB of data.

DB2 must support scaling up and down, as required.

Data from DB1 must be archived in DB2 for long-term storage.

All of the reports that are executed from DB2 must use aggregation.

Users must be able to pause DB2 when the data warehouse is not in use.

Users must be able to view previous versions of the data in DB2 by using aggregates.

Relecloud identifies the following requirements for extract, transformation, and load (ETL):

Data movement between DB1 and DB2 must occur each hour.

An email alert must be generated when a failure of any type occurs during ETL processing.

Sample code and data:

You execute the following code for a table named rls_table1.



```
create function rls_table1 (@CustomerId int, @SalesPersonId int)
    returns table
    with schemabinding
as
return
select 1 as result
from dbo.table1
join dbo.table2 on table1.customerid = Table2.CustomerId
where table2.UserName = suser_sname()
    and table1.customerid = @CustomerId
union all
select 1 as result
from dbo.table1
join dbo.table3 on table1.salespersonid = table3.EmployeeId
where table3.UserName = suser_sname()
    and table1.salespersonid = @SalesPersonId
go
```

You use the following code to create Table1.

```
create table table1 (customerid int, salespersonid int ... ) Go
```

The following is a sample of the streaming data.

User	Country	Topic	Time
user1	USA	Topic1	2017-01-01T00:00:01.0000000Z
user1	USA	Topic3	2017-01-01T00:02:01.0000000Z
user2	Canada	Topic2	2017-01-01T00:01:11.0000000Z
user3	India	Topic1	2017-01-01T00:03:14.0000000Z

You need to implement rls_table1.

Which code should you execute? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Values

Block

Filter

Grant

Security

Server

Answer Area

CREATE Value POLICY dbo.rls_table1_policy

ADD Value PREDICATE dbo.rls_table1(CustomerId, salespersonid) ON dbo.table1,

ADD Value PREDICATE dbo.rls_table1(CustomerId, salespersonid) ON dbo.table1 BEFORE UPDATE,

ADD Value PREDICATE dbo.rls_table1(CustomerId, salespersonid) ON dbo.table1 BEFORE DELETE,

ADD Value PREDICATE dbo.rls_table1(CustomerId, salespersonid) ON dbo.table1 AFTER INSERT

with (state = on)

Correct Answer:

Values

Block

Filter

Grant

Security

Server

Answer Area

CREATE Security POLICY dbo.rls_table1_policy

ADD Filter PREDICATE dbo.rls_table1(CustomerId, salespersonid) ON dbo.table1,

ADD Block PREDICATE dbo.rls_table1(CustomerId, salespersonid) ON dbo.table1 BEFORE UPDATE,

ADD Block PREDICATE dbo.rls_table1(CustomerId, salespersonid) ON dbo.table1 BEFORE DELETE,

ADD Filter PREDICATE dbo.rls_table1(CustomerId, salespersonid) ON dbo.table1 AFTER INSERT

with (state = on)

Box 1: Security

Security Policy

Example: After we have created Predicate function, we have to bind it to the table, using Security Policy. We will be using CREATE SECURITY POLICY command to set the security policy in place.

CREATE SECURITY POLICY DepartmentSecurityPolicy

ADD FILTER PREDICATE dbo.DepartmentPredicateFunction(UserDepartment) ON dbo.Department

WITH(STATE = ON)

Box 2: Filter

[FILTER | BLOCK]

The type of security predicate for the function being bound to the target table. FILTER predicates silently filter the rows that are available to read operations. BLOCK predicates explicitly block write operations that violate the predicate function.



Box 3: Block

Box 4: Block

Box 5: Filter

Reference:

<https://social.technet.microsoft.com/wiki/contents/articles/37813.sql-server-2016-implement-row-level-security-using-predicate-function-and-security-policy.aspx> <https://docs.microsoft.com/en-us/sql/t-sql/statements/create-security-policytransact-sql>

QUESTION 4

You are designing a partitioning scheme for ingesting real-time data by using Kafka. Kafka and Apache Storm will be integrated.

You plan to use four event processing servers that each run as a Kafka consumer. Each server will have a two quad-core processor.

You need to identify the minimum number of partitions required to ensure that the load is distributed evenly.

How many should you identify?

- A. 1
- B. 4
- C. 16
- D. 32

Correct Answer: C

QUESTION 5

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

the others might not have a correct solution.

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You need to design a solution to ingest data into the data warehouse.

Solution: You use AzCopy to transfer the data as text files from SQL Server to Azure Blob storage, and then you use



PolyBase to run Transact-SQL statements that refresh the data warehouse database.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

If you need the best performance, then use PolyBase to import data into Azure SQL warehouse.

Note: Often the speed of migration is an overriding concern compared to ease of setup and maintainability, particularly when there's a large amount of data to move. Optimizing purely for speed, a source controlled differentiated approach relying on bcp to export data to files, efficiently moving the files to Azure Blob storage, and using the Polybase engine to import from blob storage works best. References: <https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-migrate-data>

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