



# 70-475<sup>Q&As</sup>

Designing and Implementing Big Data Analytics Solutions

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### QUESTION 1

You plan to analyze the execution logs of a pipeline to identify failures by using Microsoft power BI.

You need to automate the collection of monitoring data for the planned analysis.

What should you do from Microsoft Azure?

- A. Create a Data Factory Set
- B. Save a Data Factory Log
- C. Add a Log Profile
- D. Create an Alert Rule Email

Correct Answer: A

You can import the results of a Log Analytics log search into a Power BI dataset so you can take advantage of its features such as combining data from different sources and sharing reports on the web and mobile devices.

To import data from a Log Analytics workspace into Power BI, you create a dataset in Power BI based on a log search query in Log Analytics. The query is run each time the dataset is refreshed. You can then build Power BI reports that use data from the dataset. References: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/powerbi>

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### QUESTION 2

You have a Microsoft Azure Stream Analytics solution.

You need to identify which types of windows must be used to group the following types of events:

Events that have random time intervals and are captured in a single fixed-size window

Events that have random time intervals and are captured in overlapping windows

Which window type should you identify for each event type? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



**Answer Area**

Events that have random time intervals and are captured in a single fixed-size window:

Events that have random time intervals and are captured in overlapping windows:

Correct Answer:

**Answer Area**

Events that have random time intervals and are captured in a single fixed-size window:

Events that have random time intervals and are captured in overlapping windows:

Box 1. A sliding Window

Box 2: A sliding Window

With a Sliding Window, the system is asked to logically consider all possible windows of a given length and output events for cases when the content of the window actually changes ?that is, when an event entered or existed the window.

Reference: <https://blogs.technet.microsoft.com/machinelearning/2015/06/01/the-azure-stream-analytics-query-language/>

**QUESTION 3**

You have a Microsoft Azure data factory.

You assign administrative roles to the users in the following table.

User name	Role
User1	Contributor
User2	Administrator
User3	Reader
User4	Automation Operator
User5	Owner



You discover that several new data factory instances were created.

You need to ensure that only User5 can create a new data factory instance.

Which two roles should you change? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. User2 to Reader
- B. User3 to Contributor
- C. User1 to Reader
- D. User4 to Contributor
- E. User5 to Administrator

Correct Answer: AC

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#### QUESTION 4

You plan to implement a Microsoft Azure Data Factory pipeline. The pipeline will have custom business logic that requires a custom processing step.

You need to implement the custom processing step by using C#.

Which interface and method should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



## Answer Area

Interface:

	▼
ICustomActivity	
IDotNetActivity	
IGenericActivity	

Method:

	▼
Copy	
Execute	
Run	
Update	

Correct Answer:



## Answer Area

Interface:

	▼
ICustomActivity	
IDotNetActivity	
IGenericActivity	

Method:

	▼
Copy	
Execute	
Run	
Update	

References: <https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/data-factory/v1/data-factory-use-custom-activities.md>

### QUESTION 5

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**

**Answer Area**

CREATE  POLICY dbo.rls\_table1\_policy

ADD  PREDICATE dbo.rls\_table1(Customerid, salespersonid) on dbo.table1,

ADD  PREDICATE dbo.rls\_table1(Customerid, salespersonid) on dbo.table1 BEFORE UPDATE,

ADD  PREDICATE dbo.rls\_table1(Customerid, salespersonid) on dbo.table1 BEFORE DELETE,

ADD  PREDICATE dbo.rls\_table1(Customerid, salespersonid) on dbo.table1 AFTER INSERT

with ( state = on )

Correct Answer:

● ● ● ● ●

**Values**

**Answer Area**

CREATE  POLICY dbo.rls\_table1\_policy

ADD  PREDICATE dbo.rls\_table1(Customerid, salespersonid) on dbo.table1,

ADD  PREDICATE dbo.rls\_table1(Customerid, salespersonid) on dbo.table1 BEFORE UPDATE,

ADD  PREDICATE dbo.rls\_table1(Customerid, salespersonid) on dbo.table1 BEFORE DELETE,

ADD  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>

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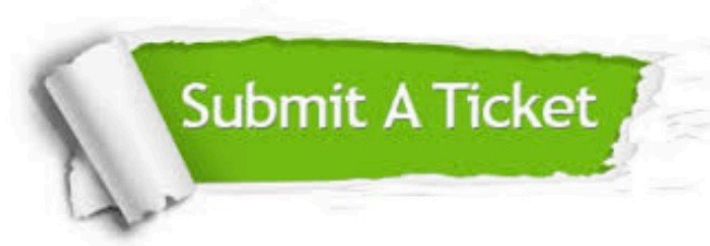
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