



# DP-300<sup>Q&As</sup>

Administering Relational Databases on Microsoft Azure

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### QUESTION 1

You have the following resources:

1.  
15 SQL Server on Azure Virtual Machines instances
2.  
20 Azure SQL databases

You need to recommend a solution to centrally monitor the resources for security vulnerabilities.

What should you include in the recommendation?

- A. database audits
- B. Microsoft Defender
- C. SQL insights
- D. Azure SQL Auditing

Correct Answer: C

SQL Insights (preview) is a comprehensive solution for monitoring any product in the Azure SQL family. SQL Insights uses dynamic management views to expose the data that you need to monitor health, diagnose problems, and tune performance. Applies to: SQL Server on Azure VM, Azure SQL Database, Azure SQL Managed Instance Reference: <https://learn.microsoft.com/en-us/azure/azure-sql/database/sql-insights-overview>

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### QUESTION 2

DRAG DROP

You are creating a managed data warehouse solution on Microsoft Azure.

You must use PolyBase to retrieve data from Azure Blob storage that resides in parquet format and load the data into a large table called FactSalesOrderDetails.

You need to configure Azure Synapse Analytics to receive the data.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



### Actions

### Answer Area

Create an external data source for Azure Blob storage.

Create a master key on database.

Enable Transparent Data Encryption.

Create the external table FactSalesOrderDetails.

Load the data to a staging table.

Create an external file format to map the parquet files.

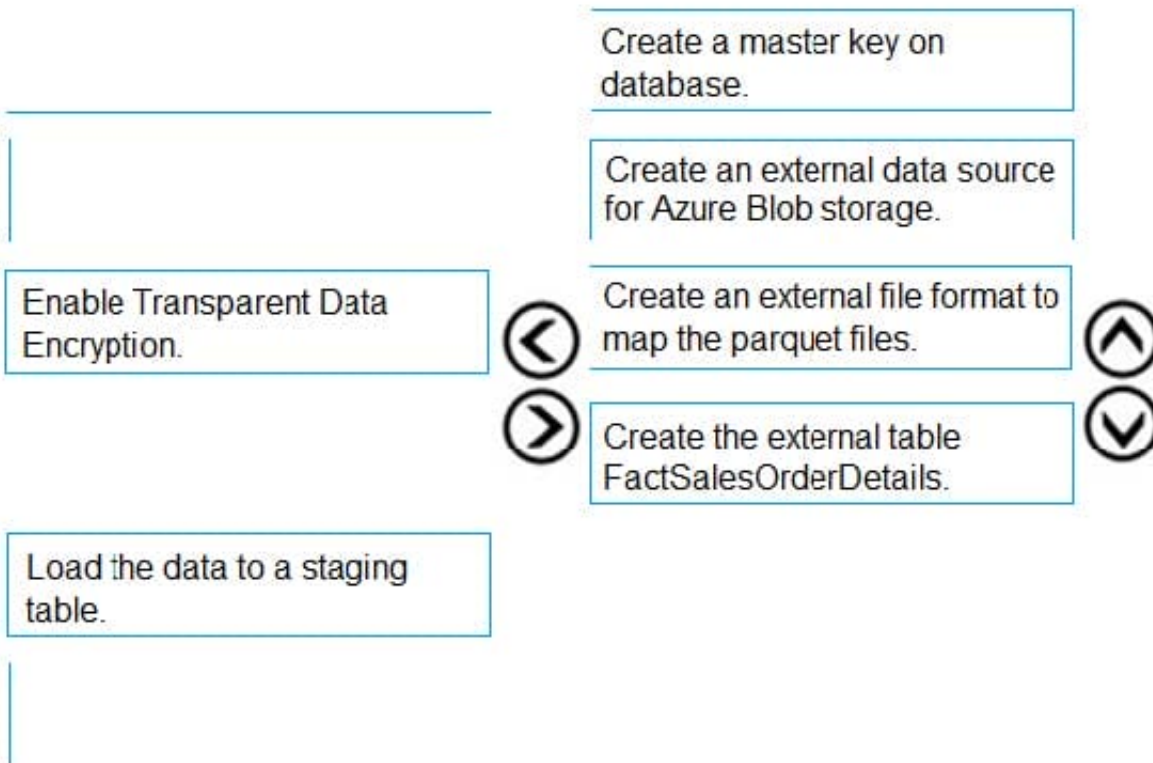


Correct Answer:



## Actions

## Answer Area



To query the data in your Hadoop data source, you must define an external table to use in Transact-SQL queries. The following steps describe how to configure the external table. Step 1: Create a master key on database.

1.

Create a master key on the database. The master key is required to encrypt the credential secret.

(Create a database scoped credential for Azure blob storage.)

Step 2: Create an external data source for Azure Blob storage.

2.

Create an external data source with CREATE EXTERNAL DATA SOURCE..

Step 3: Create an external file format to map the parquet files.

3.

Create an external file format with CREATE EXTERNAL FILE FORMAT.

Step 4. Create an external table FactSalesOrderDetails

4.

Create an external table pointing to data stored in Azure storage with CREATE EXTERNAL TABLE.

Reference: <https://docs.microsoft.com/en-us/sql/relational-databases/polybase/polybase-configure-azure-blob-storage>



### QUESTION 3

You have an Azure SQL database named DB1.

A user named User 1 has an Azure AD account.

You need to provide User1 with the ability to add and remove columns from the tables in DB1. The solution must use the principle of least privilege.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point

- A. Assign the database user the db\_owner role.
- B. Create a contained database user.
- C. Create a login and an associated database user.
- D. Assign the database user the db\_ddladmin role.

Correct Answer: CD

C: Logins and users: A user account in a database can be associated with a login that is stored in the master database or can be a user name that is stored in an individual database.

A login is an individual account in the master database, to which a user account in one or more databases can be linked. With a login, the credential information for the user account is stored with the login.

A user account is an individual account in any database that may be, but does not have to be, linked to a login. With a user account that is not linked to a login, the credential information is stored with the user account.

D: db\_ddladmin: Members of the db\_ddladmin fixed database role can run any Data Definition Language (DDL) command (such as adding and removing columns) in a database.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/logins-create-manage>

<https://docs.microsoft.com/en-us/sql/relational-databases/security/authentication-access/database-level-roles?view=sql-server-ver15>

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### QUESTION 4

You have 50 Azure SQL databases.

You need to notify the database owner when the database settings, such as the database size and pricing tier, are modified in Azure.

What should you do?

- A. Create a diagnostic setting for the activity log that has the Security log enabled.



- B. For the database, create a diagnostic setting that has the InstanceAndAppAdvanced metric enabled.
- C. Create an alert rule that uses a Metric signal type.
- D. Create an alert rule that uses an Activity Log signal type.

Correct Answer: D

Activity log events - An alert can trigger on every event, or, only when a certain number of events occur. Incorrect Answers:

C: Metric values - The alert triggers when the value of a specified metric crosses a threshold you assign in either direction. That is, it triggers both when the condition is first met and then afterwards when that condition is no longer being met.

Reference: <https://docs.microsoft.com/en-us/azure/azure-sql/database/alerts-insights-configure-portal>

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## QUESTION 5

You have an Azure Databricks resource.

You need to log actions that relate to changes in compute for the Databricks resource.

Which Databricks services should you log?

- A. clusters
- B. jobs
- C. DBFS
- D. SSH
- E. workspace

Correct Answer: E

Cloud Provider Infrastructure Logs.

Databricks logging allows security and admin teams to demonstrate conformance to data governance standards within or from a Databricks workspace. Customers, especially in the regulated industries, also need records on activities like:

1.  
User access control to cloud data storage
2.  
Cloud Identity and Access Management roles
3.  
User access to cloud network and compute

Azure Databricks offers three distinct workloads on several VM Instances tailored for your data analytics workflow-the



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Jobs Compute and Jobs Light Compute workloads make it easy for data engineers to build and execute jobs, and the All-Purpose Compute workload makes it easy for data scientists to explore, visualize, manipulate, and share data and insights interactively.

Reference: <https://databricks.com/blog/2020/03/25/trust-but-verify-with-databricks.html>

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