Free Microsoft DP-300 Practice Questions

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Question 1

Question Type: MultipleChoice

Case Study: Mix Questions

Mix Questions

DP-300 Mix Questions IN THIS CASE STUDY

You have an Azure subscription.

You plan to deploy an instance of SQL Sevier on Azure Virtual Machines that supports Write Accelerator.

Which virtual machine series should you use?

Options:

A- H-series
B- G -series
C- M-series
D- E-series

Answer:

C

Question 2

Question Type: MultipleChoice

SIMULATION

Task 4

You need to enable change data capture (CDC) for db1.

Options:

A- See the explanation part for the complete Solution

Answer:

A

Explanation:

To enable change data capture (CDC) for db1, you need to run the stored procedure sys.sp_cdc_enable_db in the database context.CDC is a feature that records activity on a database when tables and rows have been modified1.CDC can be used for various scenarios, such as data synchronization, auditing, or ETL processes2.

Here are the steps to enable CDC for db1:

Connect to db1 using SQL Server Management Studio, Azure Data Studio, or any other tool that supports Transact-SQL statements.

Open a new query window and run the following command:EXEC sys.sp_cdc_enable_db; GO

This command will enable CDC for the database and create the cdc schema, cdc user, metadata tables, and other system objects for the database3.

To verify that CDC is enabled for db1, you can query the is_cdc_enabled column in the sys.databases catalog view. The value should be 1 for db1.

These are the steps to enable CDC for db1

Question 3

Question Type: MultipleChoice

You have an instance of SQL Server on Azure Virtual Machines named SQL1.

SQL1 contains an Extended Events session named session! that captures Microsoft SQL Server events.

You need to correlate the session events with events captured by Event Tracing for Windows (ETW).

What should you do for session1?

Options:

A- Modify the Set Session Event Filters settings.
B- Add a target.
C- Add an action.

D- Modify the Specify Session Data Storage settings.

Answer:

B

Question 4

Question Type: MultipleChoice

You have an Azure subscription that contains the following resources:

* 10 Azure SQL databases

* Five Azure SQL managed instances

* Five instances of SQL Server on Azure Virtual Machines

You need to implement a centralized monitoring solution for all the Azure SQL resources. The solution must minimize administrative effort. What should you include in the solution?

Options:

A- Log Analytics
B- Azure SQL Analytics
C- Query Performance Insight
D- SQL Insights

Answer:

B

Question 5

Question Type: MultipleChoice

You have an Azure SQL managed instance named SQLMI1 that hosts 10 databases.

You need to implement alerts by using Azure Monitor. The solution must meet the following requirements:

Minimize costs.

Aggregate Intelligent Insights telemetry from each database.

What should you do?

Options:

A- From the Diagnostic settings of each database, select Send to Log Analytics.
B- From the Diagnostic settings of each database, select Stream to an event hub.
C- From the Diagnostic settings of SQLMI1. select Send to Log Analytics.
D- From the Diagnostic settings of SQLMI1. select Stream to an event hub.

Answer:

A

Explanation:

https://docs.microsoft.com/en-us/azure/azure-sql/database/metrics-diagnostic-telemetry-logging-streaming-export-configure?tabs=azure-portal#configure-the-streaming-export-of-diagnostic-telemetry

Question 6

Question Type: MultipleChoice

You are designing an enterprise data warehouse in Azure Synapse Analytics that will contain a table named Customers. Customers will contain credit card information.

You need to recommend a solution to provide salespeople with the ability to view all the entries in Customers.

The solution must prevent all the salespeople from viewing or inferring the credit card information.

What should you include in the recommendation?

Options:

A- row-level security
B- data masking
C- Always Encrypted
D- column-level security

Answer:

B

Explanation:

Azure SQL Database, Azure SQL Managed Instance, and Azure Synapse Analytics support dynamic data masking. Dynamic data masking limits sensitive data exposure by masking it to non-privileged users.

The Credit card masking method exposes the last four digits of the designated fields and adds a constant string as a prefix in the form of a credit card.

Example:

XXXX-XXXX-XXXX-1234

Question 7

Question Type: MultipleChoice

You have an Azure subscription that contains a Basic SKU Azure SQL database named DB1.

You need to configure the long-term retention of backups for DB1. The solution must maximize how long the backups are retained. Which retention period should you configure?

Options:

A- 180 days
B- 365 days
C- five years
D- 10 years

Answer:

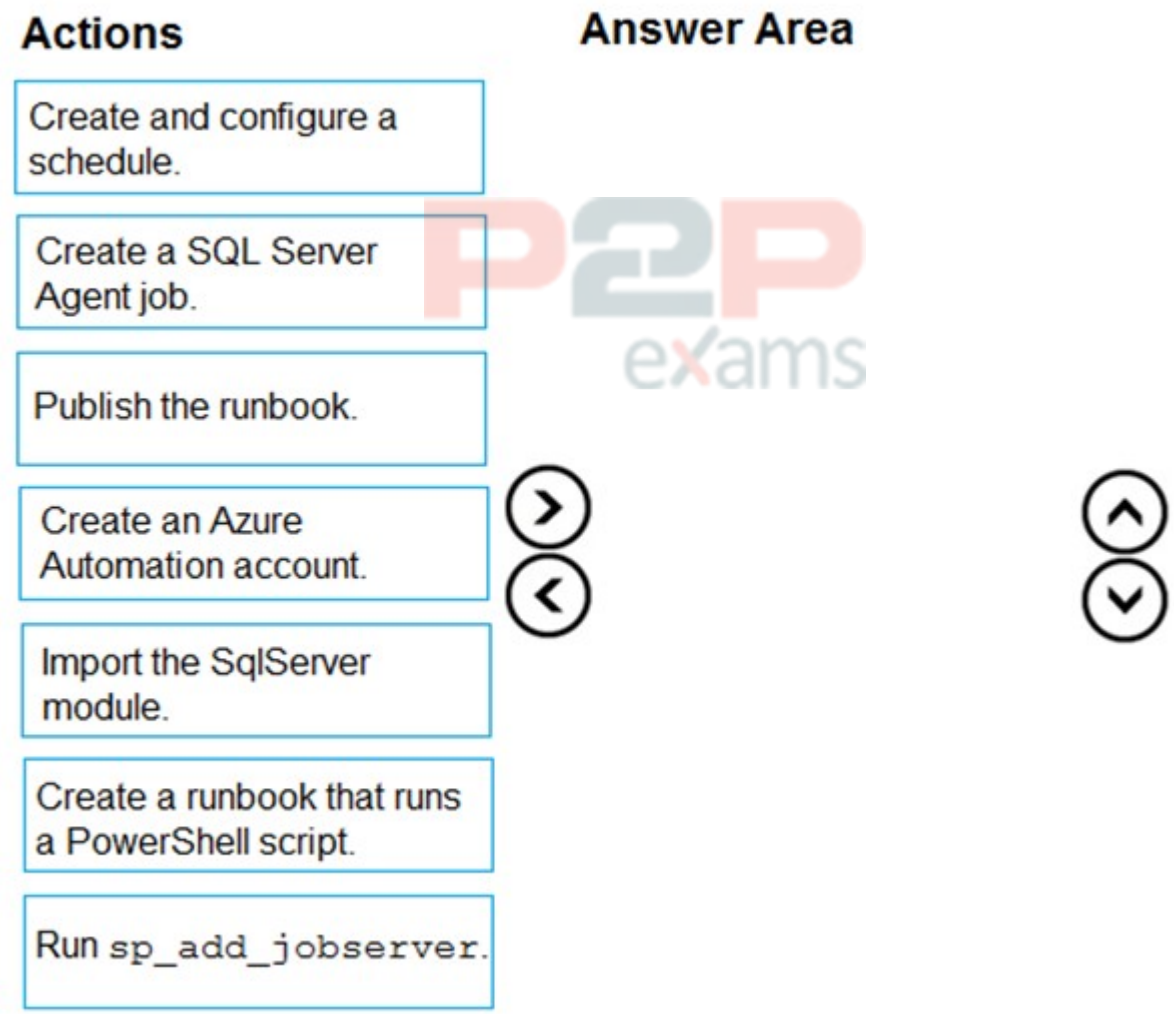
D

Question 8

Question Type: OrderList

You need to implement statistics maintenance for SalesSQLDb1. The solution must meet the technical requirements.

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.



Answer:

Create an Azure Automation account.Import the SqlServer module.Create a runbook that runs a PowerShell script.Create and configure a schedule.

Question 9

Question Type: MultipleChoice

SIMULATION

Task 5

You need to configure a disaster recovery solution for db1. When a failover occurs, the connection strings to the database must remain the same. The secondary server must be in the West US 3 Azure region.

Options:

A- See the explanation part for the complete Solution

Answer:

A

Explanation:

To configure a disaster recovery solution for db1, you can use the failover groups feature of Azure SQL Database.Failover groups allow you to manage the replication and failover of a group of databases across different regions with the same connection strings1.You can also use active geo-replication as an alternative, but you will need to update the connection strings manually after a failover2.

Here are the steps to create a failover group for db1 with the secondary server in the West US 3 region:

Using the Azure portal:

Go to the Azure portal and select your Azure SQL Database server that hosts db1.

SelectFailover groupsin the left menu and click onAdd group.

Enter a name for the failover group and selectWest US 3as the secondary region.

Click onCreate a new serverand enter the details for the secondary server, such as server name, admin login, password, and subscription.

Click onSelect existing database(s)and choose db1 from the list of databases on the primary server.

Click onConfigure failover policyand select the failover mode, grace period, and read-write failover endpoint mode according to your preferences.

Click onCreateto create the failover group and start the replication of db1 to the secondary server.

Using PowerShell commands:

Install the Azure PowerShell module and log in with your Azure account.

Run the following command to create a new server in the West US 3 region:New-AzSqlServer -ResourceGroupName <your-resource-group-name> -ServerName <your-secondary-server-name> -Location 'West US 3' -SqlAdministratorCredentials $(New-Object -TypeName System.Management.Automation.PSCredential -ArgumentList '<your-admin-login>', $(ConvertTo-SecureString -String '<your-password>' -AsPlainText -Force))

Run the following command to create a new failover group with db1:New-AzSqlDatabaseFailoverGroup -ResourceGroupName <your-resource-group-name> -ServerName <your-primary-server-name> -PartnerResourceGroupName <your-resource-group-name> -PartnerServerName <your-secondary-server-name> -FailoverGroupName <your-failover-group-name> -Database db1 -FailoverPolicy Manual -GracePeriodWithDataLossHours 1 -ReadWriteFailoverEndpoint 'Enabled'

You can modify the parameters of the command according to your preferences, such as the failover policy, grace period, and read-write failover endpoint mode.

These are the steps to create a failover group for db1 with the secondary server in the West US 3 region.

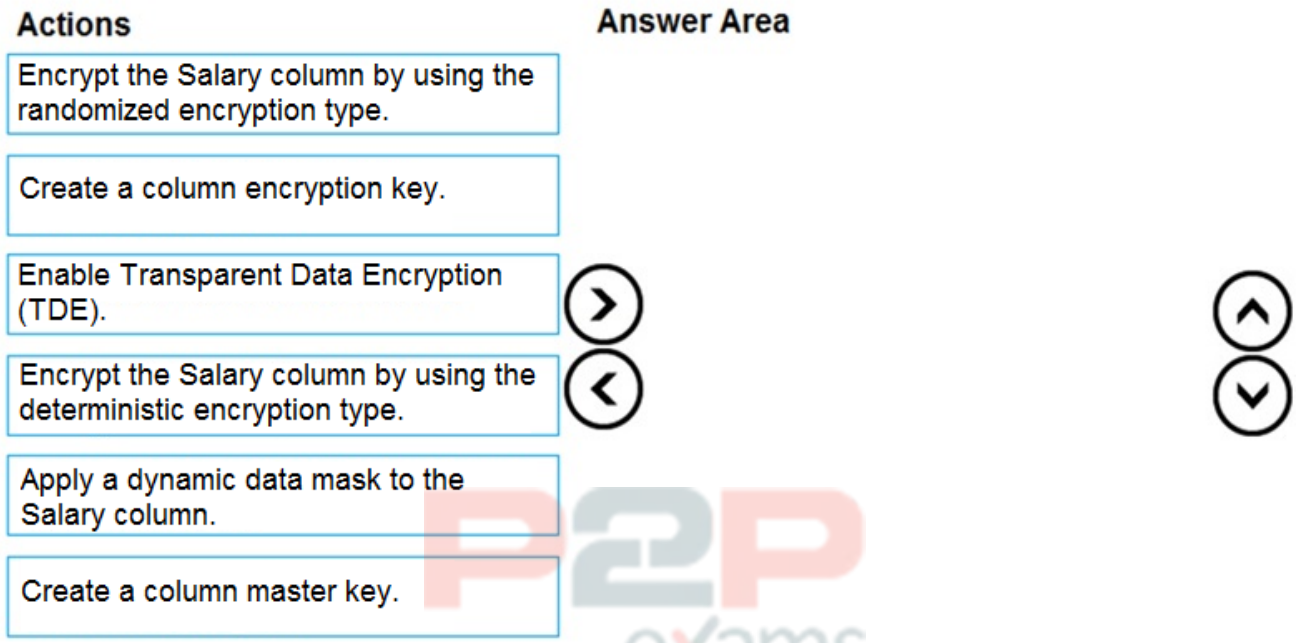
Question 10

Question Type: OrderList

You have an Azure SQL database that contains a table named Employees. Employees contains a column named Salary.

You need to encrypt the Salary column. The solution must prevent database administrators from reading the data in the Salary column and must provide the most secure encryption.

Which three 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.



Answer:

Create a column master keyCreate a column encryption key.Encrypt the Salary column by using the randomized encryption type.

Question 11

Question Type: MultipleChoice

You have an Azure SQL database that contains a table named Customers Customers contains the following columns.

Name	Data type
CustomerID	int
FirstName	nvarchar(50)
LastName	nvarchar(50)
Address	nvarchar(1024)
PhoneNumber	varchar(20)
Email	varchar(255)
CreatedDate	datetime
LastUpdateDate	datetime

The data in the PhoneNumber and Email columns is encrypted.

You need to recommend a data classification strategy for Customers. The solution must meet the following requirements:

* Support data security and privacy requirements.

* Support the auditing of access to sensitive data

* Minimize administrative effort.

What should you recommend?

Options:

A- Apply a sensitivity label to each column.
B- Enable Transparent Data Encryption (TDE) for the database.
C- Implement dynamic data masking for the PhoneNumber and Email columns.
D- Apply a sensitivity label to Customers

Answer:

A

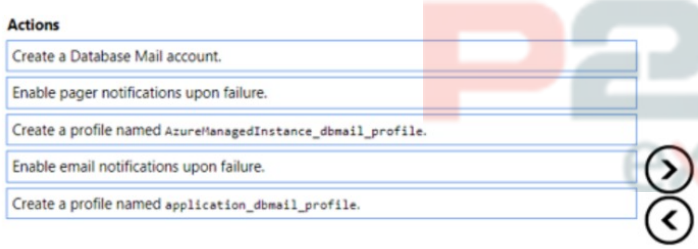
Question 12

Question Type: OrderList

You create a new Azure SQL managed instance named SQL1 and enable Database Mail extended stored

You need to ensure that SQ Server Agent jobs running on SQL 1 can notify when a failure Occurs

Which three actions should you perform in sequence 7 TO answer. move the appropriate actions from the list Of actions to answer area and arrange them in correct order.



Answer:

Create a Database Mail account.Create a profile named AzureManagedInstance_dbmail_profile.Enable email notifications upon failure.

Question 13

Question Type: MultipleChoice

You have an on-premises Microsoft SQL Server 2019 server that hosts a database named DB1.

You have an Azure subscription that contains an Azure SQL managed instance named SQLMI1 and a virtual network named VNET1. SQLMI1 resides on VNET1. The on-premises network connects to VNET1 by using an ExpressRoute connection.

You plan to migrate DB1 to SQLMI1 by using Azure Database Migration Service.

You need to configure VNET1 to support the migration.

What should you do?

Options:

A- Configure service endpoints.
B- Configure virtual network peering.
C- Deploy an Azure firewall.
D- Configure network security groups (NSGs).

Answer:

A

Explanation:

https://docs.microsoft.com/en-us/azure/dms/tutorial-sql-server-to-managed-instance