



DP-200^{Q&As}

Implementing an Azure Data Solution

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QUESTION 1

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 others might not have a correct solution.

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

You are developing a solution that will use Azure Stream Analytics. The solution will accept an Azure Blob storage file named Customers. The file will contain both in-store and online customer details. The online customers will provide a mailing address.

You have a file in Blob storage named LocationIncomes that contains median incomes based on location. The file rarely changes.

You need to use an address to look up a median income based on location. You must output the data to Azure SQL Database for immediate use and to Azure Data Lake Storage Gen2 for long-term retention.

Solution: You implement a Stream Analytics job that has two streaming inputs, one query, and two outputs.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

We need one reference data input for LocationIncomes, which rarely changes

Note: Stream Analytics also supports input known as reference data. Reference data is either completely static or changes slowly.

Reference:

<https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-add-inputs#stream-and-reference-inputs>

QUESTION 2

SIMULATION Use the following login credentials as needed:



Azure Username: xxxxx Azure Password: xxxxx The following information is for technical support purposes only:

Lab Instance: 10277521

You need to replicate db1 to a new Azure SQL server named REPL10277521 in the Central Canada region.

To complete this task, sign in to the Azure portal.

NOTE: This task might take several minutes to complete. You can perform other tasks while the task completes or ends this section of the exam.

To complete this task, sign in to the Azure portal.

Correct Answer: See the below.

Explanation:

1.
In the Azure portal, browse to the database that you want to set up for geo-replication.
2.
On the SQL database page, select geo-replication, and then select the region to create the secondary database.
- 3.

Select or configure the server and for the secondary database. Region: Central Canada Target server: REPL10277521



4.

Click Create to add the secondary.

WideWorldImporters - Geo-Replication
SQL database
Select a region on the map or from the Target Regions list to create a secondary database.

Search (Ctrl+I)

- Overview
- Activity log
- Tags
- Diagnose and solve problems

SETTINGS

- Quick start
- Pricing tier (scale DTUs)
- Geo-Replication**
- Auditing & Threat detection
- Dynamic data masking
- Transparent data encryption
- Properties
- Locks
- Automation script

	SERVER/DATABASE	STATUS
PRIMARY		
<input checked="" type="checkbox"/>	North Central US sqldbteam/WideWorldImporte...	Online
SECONDARIES		
<i>Geo-Replication is not configured</i>		



Create secondary

Create geo-replicated secondaries to protect against prolonged outages [Learn more](#)

Region
South Central US

Database name
WiceWorldImporters

Provisioning tier
S2 Standard

* Secondary type
Readable

* Target server
Configure required settings

Elastic database pool

Pin to dashboard

OK

5. The secondary database is created and the seeding process begins.



	SERVER/DATABASE	STATUS
PRIMARY		
	North Central US sqldbteam/WideWorldImporte...	Online
SECONDARIES		
	South Central US server101801/WideWorldImp...	Initializing...

6. When the seeding process is complete, the secondary database displays its status.



PRIMARY			
	North Central US	sqldbteam/WideWorldImporte...	Online
SECONDARIES			
	South Central US	server101801/WideWorldImp...	Readable ...

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-active-geo-replication-portal>

QUESTION 3

SIMULATION



Use the following login credentials as needed:

Azure Username: xxxxx Azure Password: xxxxx The following information is for technical support purposes only:

Lab Instance: 10277521



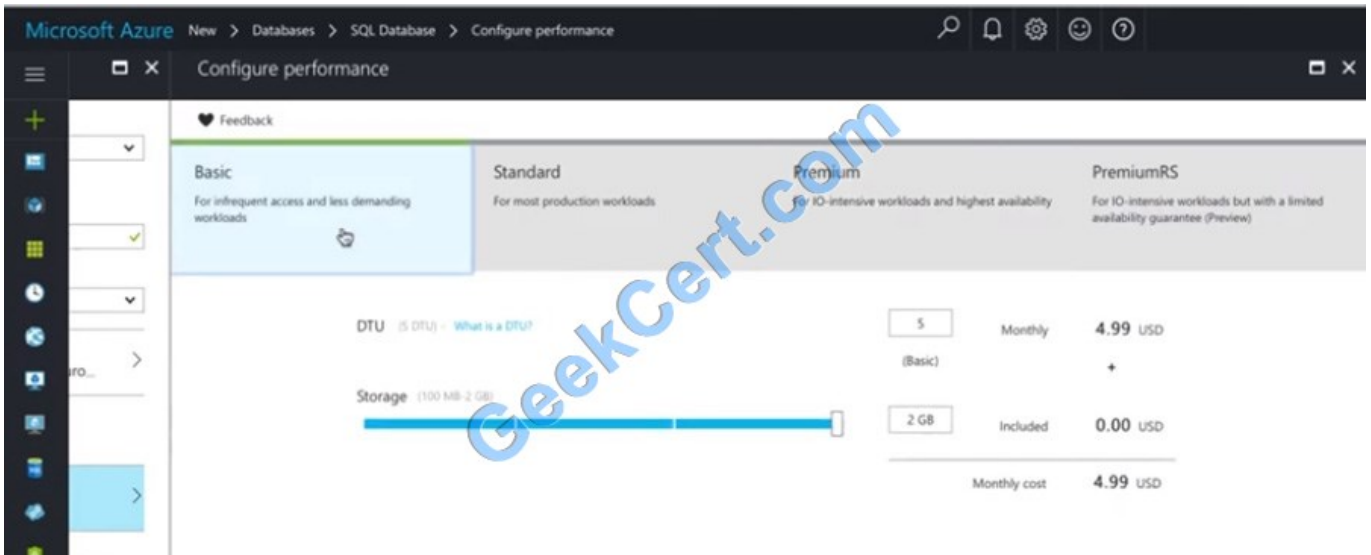
You need to increase the size of db2 to store up to 250 GB of data.

To complete this task, sign in to the Azure portal.

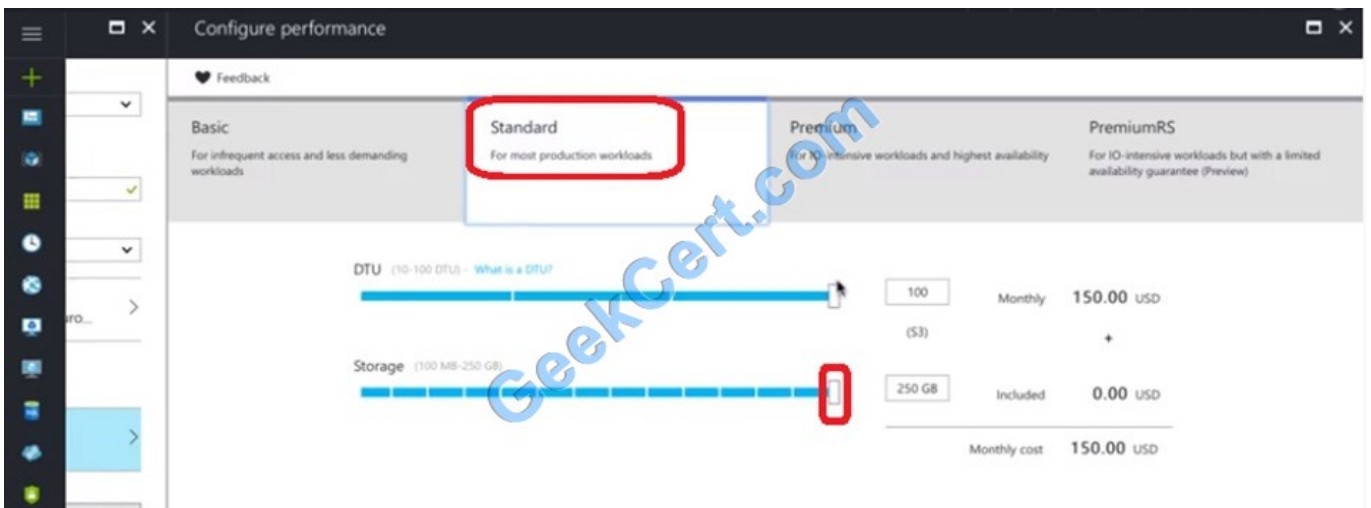
Correct Answer: See the below.

Explanation:

1. In Azure Portal, navigate to the SQL databases page, select the db2 database , and choose Configure performance



2. Click on Standard and Adjust the Storage size to 250 GB



References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-single-databases-manage>

QUESTION 4

You plan to use Microsoft Azure SQL Database instances with strict user access control. A user object must:

Move with the database if it is run elsewhere Be able to create additional users You need to create the user object with correct permissions.



Which two Transact-SQL commands should you run? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. ALTER LOGIN Mary WITH PASSWORD = @@strong_password@;
- B. CREATE LOGIN Mary WITH PASSWORD = @@strong_password@;
- C. ALTER ROLE db_owner ADD MEMBER Mary;
- D. CREATE USER Mary WITH PASSWORD = @@strong_password@;
- E. GRANT ALTER ANY USER TO Mary;

Correct Answer: CD

C: ALTER ROLE adds or removes members to or from a database role, or changes the name of a user-defined database role.

Members of the db_owner fixed database role can perform all configuration and maintenance activities on the database, and can also drop the database in SQL Server.

D: CREATE USER adds a user to the current database.

Note: Logins are created at the server level, while users are created at the database level. In other words, a login allows you to connect to the SQL Server service (also called an instance), and permissions inside the database are granted to

the database users, not the logins. The logins will be assigned to server roles (for example, serveradmin) and the database users will be assigned to roles within that database (eg. db_datareader, db_bckupoperator).

References:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/alter-role-transact-sql> <https://docs.microsoft.com/en-us/sql/t-sql/statements/create-user-transact-sql>

QUESTION 5

You are developing the data platform for a global retail company. The company operates during normal working hours in each region. The analytical database is used once a week for building sales projections.

Each region maintains its own private virtual network.

Building the sales projections is very resource intensive and generates upwards of 20 terabytes (TB) of data.

Microsoft Azure SQL Databases must be provisioned.

Database provisioning must maximize performance and minimize cost

The daily sales for each region must be stored in an Azure SQL Database instance. Once a day, the data for all regions must be loaded in an analytical Azure SQL Database instance.

You need to provision Azure SQL database instances.

How should you provision the database instances? To answer, drag the appropriate Azure SQL products to the correct databases. Each Azure SQL product 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:

Answer area

Azure SQL products	Database	Azure SQL product
Azure SQL Database elastic pools	Daily Sales	Azure SQL product
Azure SQL Database Premium	Weekly Analysis	Azure SQL product
Azure SQL Database Managed Instance		
Azure SQL Database Hyperscale		

Correct Answer:

Answer area

Azure SQL products	Database	Azure SQL product
	Daily Sales	Azure SQL Database elastic pools
Azure SQL Database Premium	Weekly Analysis	Azure SQL Database Hyperscale
Azure SQL Database Managed Instance		

Box 1: Azure SQL Database elastic pools

SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single Azure SQL Database server

and share a set number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity

for each database.

Box 2: Azure SQL Database Hyperscale

A Hyperscale database is an Azure SQL database in the Hyperscale service tier that is backed by the Hyperscale scale-out storage technology. A Hyperscale database supports up to 100 TB of data and provides high throughput and

performance, as well as rapid scaling to adapt to the workload requirements. Scaling is transparent to the application – connectivity, query processing, and so on, work like any other SQL database.



Incorrect Answers:

Azure SQL Database Managed Instance: The managed instance deployment model is designed for customers looking to migrate a large number of apps from on-premises or IaaS, self-built, or ISV provided environment to fully managed

PaaS cloud environment, with as low migration effort as possible.

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-pool>

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-service-tier-hyperscale-faq>

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