

Exam Questions DP-300

Administering Relational Databases on Microsoft Azure (beta)

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NEW QUESTION 1

You have an Azure SQL database that contains a table named factSales. FactSales contains the columns shown in the following table.

Name	Data type
SalesID	Int
Product	Int
Total Number	Numeric(8,4)
Tax Number	Numeric(8,4)
SalesRep	Varchar(30)

FactSales has 6 billion rows and is loaded nightly by using a batch process.

Which type of compression provides the greatest space reduction for the database?

- A. page compression
- B. row compression
- C. columnstore compression
- D. columnstore archival compression

Answer: D

NEW QUESTION 2

You have SQL Server 2019 on an Azure virtual machine that runs Windows Server 2019. The virtual machine has 4 vCPUs and 28 GB of memory. You scale up the virtual machine to 16 vCPUSs and 64 GB of memory.

You need to provide the lowest latency for tempdb.

What is the total number of data files that tempdb should contain?

- A. 2
B. 4
C. 8
D. 64

Answer: B

Explanation:

1. You need to identify the cause of the performance issues on SalesSQLDb1.

Which two dynamic management views should you use? Each correct answer presents part of the solution.

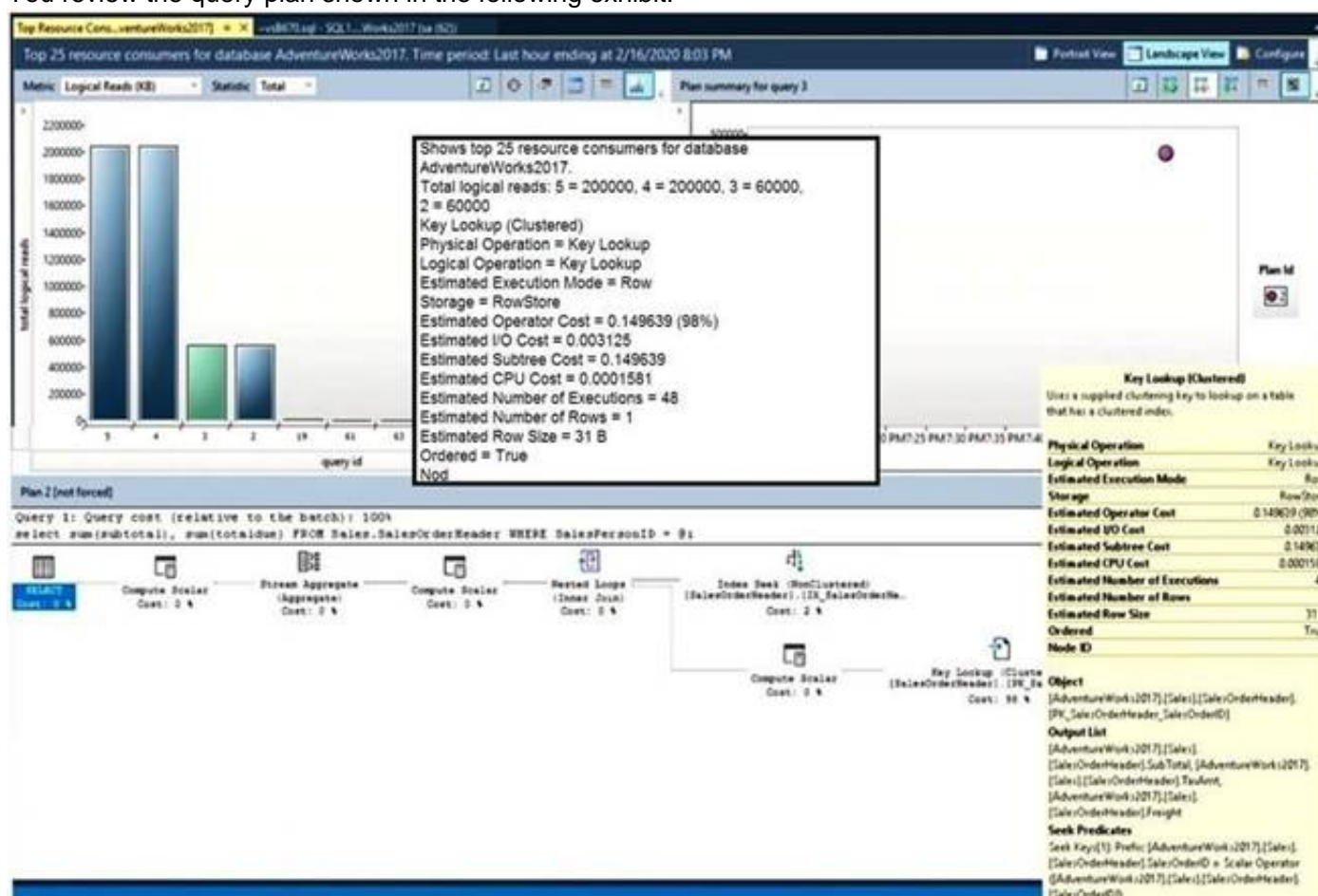
NOTE: Each correct selection is worth one point.

- A. sys.dm_pdw_nodes_tran_locks
- B. sys.dm_exec_compute_node_errors
- C. sys.dm_exec_requests
- D. sys.dm_cdc_errors
- E. sys.dm_pdw_nodes_os_wait_stats
- F. sys.dm_tran_locks

- ## 1. HOTSPOT

You have SQL Server on an Azure virtual machine.

You review the query plan shown in the following exhibit.



For each of the following statements, select yes if the statement is true. Otherwise, select no.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
You will reduce the I/O usage and the query execution time if you force the query plan.	<input type="radio"/>	<input type="radio"/>
You will increase the I/O usage and the query execution time if you create a new index on the SalesOrderHeader table.	<input type="radio"/>	<input type="radio"/>
You will reduce the I/O usage and the query execution time if you include the SubTotal, TaxAmt, and Freight columns in the PK_SalesOrderHeader_SalesOrderID index.	<input type="radio"/>	<input type="radio"/>

Answer Area

Statements	Yes	No
You will reduce the I/O usage and the query execution time if you force the query plan.	<input checked="" type="radio"/>	<input type="radio"/>
You will increase the I/O usage and the query execution time if you create a new index on the SalesOrderHeader table.	<input type="radio"/>	<input checked="" type="radio"/>
You will reduce the I/O usage and the query execution time if you include the SubTotal, TaxAmt, and Freight columns in the PK_SalesOrderHeader_SalesOrderID index.	<input checked="" type="radio"/>	<input type="radio"/>

2. A data engineer creates a table to store employee information for a new application. All employee names are in the US English alphabet. All addresses are locations in the United States. The data engineer uses the following statement to create the table.

```
CREATE TABLE dbo.Employee
(
    EmployeeID INT IDENTITY(1,1) PRIMARY KEY CLUSTERED NOT NULL,
    FirstName VARCHAR(100) NOT NULL,
    LastName VARCHAR(100) NOT NULL,
    Title VARCHAR(100) NULL,
    LastHireDate DATETIME NULL,
    StreetAddress1 VARCHAR(500) NOT NULL,
    StreetAddress2 VARCHAR(500) NOT NULL,
    StreetAddress3 VARCHAR(500) NOT NULL,
    City VARCHAR(200) NOT NULL,
    StateName VARCHAR(20) NOT NULL,
    Salary VARCHAR(20) NULL,
    PhoneNumber VARCHAR(20) NOT NULL
)
```

You need to recommend changes to the data types to reduce storage and improve performance. Which two actions should you recommend? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Change Salary to the money data type.
- B. Change PhoneNumber to the float data type.
- C. Change LastHireDate to the datetime2(7) data type.
- D. Change PhoneNumber to the bigint data type.
- E. Change LastHireDate to the date data type.

3. You have an Azure SQL database. You identify a long running query.

You need to identify which operation in the query is causing the performance issue.

What should you use to display the query execution plan in Microsoft SQL Server Management Studio (SSMS)?

- A. Live Query Statistics
- B. an estimated execution plan
- C. an actual execution plan
- D. Client Statistics

4. You have a version-8.0 Azure Database for MySQL database.

You need to identify which database queries consume the most resources. Which tool should you use?

- A. Query Store
- B. Metrics
- C. Query Performance Insight
- D. Alerts

5. You have SQL Server on an Azure virtual machine that contains a database named DB1.

You have an application that queries DB1 to generate a sales report.

You need to see the parameter values from the last time the query was executed.

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

NOTE: Each correct selection is worth one point.

- A. Enable Last_Query_Plan_Stats in the master database
- B. Enable Lightweight_Query_Profiling in DB1
- C. Enable Last_Query_Plan_Stats in DB1
- D. Enable Lightweight_Query_Profiling in the master database
- E. Enable PARAMETER_SNIFFING in DB1

7. You deploy a database to an Azure SQL Database managed instance.

You need to prevent read queries from blocking queries that are trying to write to the database. Which database option should set?

- A. PARAMETERIZATION to FORCED
- B. PARAMETERIZATION to SIMPLE
- C. Delayed Durability to Forced
- D. READ_COMMITTED_SNAPSHOT to ON

8. You have an Azure SQL database.

You discover that the plan cache is full of compiled plans that were used only once.

You run the select * from sys.database_scoped_configurations Transact-SQL command and receive the results shown in the following table.

configuration_id	name	value	is_value_default
1	LEGACY_CARDINALITY_ESTIMATION	0	1
2	QUERY_OPTIMIZER_HOTFIXES	0	1
3	OPTIMIZE_FOR_AD_HOC_WORKLOADS	0	1
4	ACCELERATED_PLAN_FORCING	1	1

You need relieve the memory pressure. What should you configure?

- A. LEGACY_CARDINALITY_ESTIMATION
- B. QUERY_OPTIMIZER_HOTFIXES
- C. OPTIMIZE_FOR_AD_HOC_WORKLOADS
- D. ACCELERATED_PLAN_FORCING

3. You have an Azure SQL Database managed instance named SQLMI1. A Microsoft SQL Server Agent job runs on SQLMI1. You need to ensure that an automatic email notification is sent once the job completes.

What should you include in the solution?

- A. From SQL Server Configuration Manager (SSMS), enable SQL Server Agent
- B. From SQL Server Management Studio (SSMS), run `sp_set_sqlagent_properties`
- C. From SQL Server Management Studio (SSMS), create a Database Mail profile
- D. From the Azure portal, create an Azure Monitor action group that has an Email/SMS/Push/Voice action

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

You have an Azure SQL database named Sales.

▪ You need to implement disaster recovery for Sales to meet the following requirements: During normal operations, provide at least two readable copies of Sales. Ensure that Sales remains available if a datacenter fails.

Solution: You deploy an Azure SQL database that uses the Business Critical service tier and Availability Zones. Does this meet the goal?

- A. Yes
- B. No

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 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 have an Azure SQL database named Sales.

▪ You need to implement disaster recovery for Sales to meet the following requirements: During normal operations, provide at least two readable copies of Sales. Ensure that Sales remains available if a datacenter fails.

Solution: You deploy an Azure SQL database that uses the General Purpose service tier and failover groups. Does this meet the goal?

- A. Yes
- B. No

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

You have two Azure SQL Database servers named Server1 and Server2. Each server contains an Azure SQL database named Database1. You need to restore Database1 from Server1 to Server2. The solution must replace the existing Database1 on Server2.

Solution: From the Azure portal, you delete Database1 from Server2, and then you create a new database on Server2 by using the backup of Database1 from Server1. Does this meet the goal?

- A. Yes
- B. No

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

You have two Azure SQL Database servers named Server1 and Server2. Each server contains an Azure SQL database named Database1. You need to restore Database1 from Server1 to Server2. The solution must replace the existing Database1 on Server2.

Solution: You run the `Remove-AzSqlDatabase` PowerShell cmdlet for Database1 on Server2. You run the `Restore-AzSqlDatabase` PowerShell cmdlet for Database1 on Server2. Does this meet the goal?

- A. Yes
- B. No

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 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 have two Azure SQL Database servers named Server1 and Server2. Each server contains an Azure SQL database named Database1. You need to restore Database1 from Server1 to Server2. The solution must replace the existing Database1 on Server2.

Solution: You restore Database1 from Server1 to the Server2 by using the `RESTORE Transact-SQL` command and the `REPLACE` option. Does this meet the goal?

- A. Yes
- B. No

6. You have an Always On availability group deployed to Azure virtual machines. The availability group contains a database named DB1 and has two nodes named SQL1 and SQL2. SQL1 is the primary replica.

You need to initiate a full backup of DB1 on SQL2. Which statement should you run?

- A. `BACKUP DATABASE DB1 TO URL='https://mystorageaccount.blob.core.windows.net/mycontainer/DB1.bak' with (Differential, STATS=5, COMPRESSION);`
- B. `BACKUP DATABASE DB1 TO URL='https://mystorageaccount.blob.core.windows.net/mycontainer/DB1.bak' with (COPY_ONLY, STATS=5, COMPRESSION);`
- C. `BACKUP DATABASE DB1 TO URL='https://mystorageaccount.blob.core.windows.net/mycontainer/DB1.bak' with (File_Snapshot, STATS=5, COMPRESSION);`
- D. `BACKUP DATABASE DB1 TO URL='https://mystorageaccount.blob.core.windows.net/mycontainer/DB1.bak' with (NoInit, STATS=5, COMPRESSION);`

7. You plan to move two 100-GB databases to Azure.

You need to dynamically scale resources consumption based on workloads. The solution must minimize downtime during scaling operations. What should you use?

- A. An Azure SQL Database elastic pool
- B. SQL Server on Azure virtual machines
- C. an Azure SQL Database managed instance
- D. Azure SQL databases

8. You have 10 Azure virtual machines that have SQL Server installed.

You need to implement a backup strategy to ensure that you can restore specific databases to other SQL Server instances. The solution must provide centralized management of the backups. What should you include in the backup strategy?

- A. Automated Backup in the SQL virtual machine settings
- B. Azure Backup
- C. Azure Site Recovery
- D. SQL Server Agent jobs

NEW QUESTION 3

- You need to recommend an availability strategy for an Azure SQL database. The strategy must meet the following requirements: Support failovers that do not require client applications to change their connection strings.
- Replicate the database to a secondary Azure region. Support failover to the secondary region.

What should you include in the recommendation?

- A. failover groups
- B. transactional replication
- C. Availability Zones
- D. geo-replication

Answer: D

NEW QUESTION 4

You are building a database backup solution for a SQL Server database hosted on an Azure virtual machine.

In the event of an Azure regional outage, you need to be able to restore the database backups. The solution must minimize costs. Which type of storage accounts should you use for the backups?

- A. locally-redundant storage (LRS)
- B. read-access geo-redundant storage (RA-GRS)
- C. zone-redundant storage (ZRS)
- D. geo-redundant storage

Answer: B

NEW QUESTION 5

You have SQL Server on Azure virtual machines in an availability group.

You have a database named DB1 that is NOT in the availability group. You create a full database backup of DB1.

You need to add DB1 to the availability group.

Which restore option should you use on the secondary replica?

- A. Restore with Recovery
- B. Restore with Norecovery
- C. Restore with Standby

Answer: B

NEW QUESTION 10

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