70-765^{Q&As}

Provisioning SQL Databases

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QUESTION 1

You deploy a new Microsoft Azure SQL database instance to support a variety of mobile application and public websites. You configure geo-replication with regions in Brazil and Japan.

You need to implement real-time encryption of the database and all backups. Solution: You enable Transparent Data Encryption (TDE) on the primary instance.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

Azure SQL Database and Data Warehouse offer encryption-at-rest by providing Transparent Data Encryption (TDE) for all data written to disk, including databases, log files and backups. This protects data in case of unauthorized access to hardware. TDE provides a TDE Protector that is used to encrypt the Database Encryption Key (DEK), which in turn is used to encrypt the data. With the TDE and Bring Your Own Key (BYOK) offering currently in preview, customers can take control of the TDE Protector in Azure Key Vault.

Taking advantage of TDE with BYOK for databases that are geo-replicated to maintain high availability requires to configure and test the scenario carefully.

References: https://azure.microsoft.com/en-us/blog/how-to-configure-azure-sql-database-geo-dr-with-azure-key-vault/
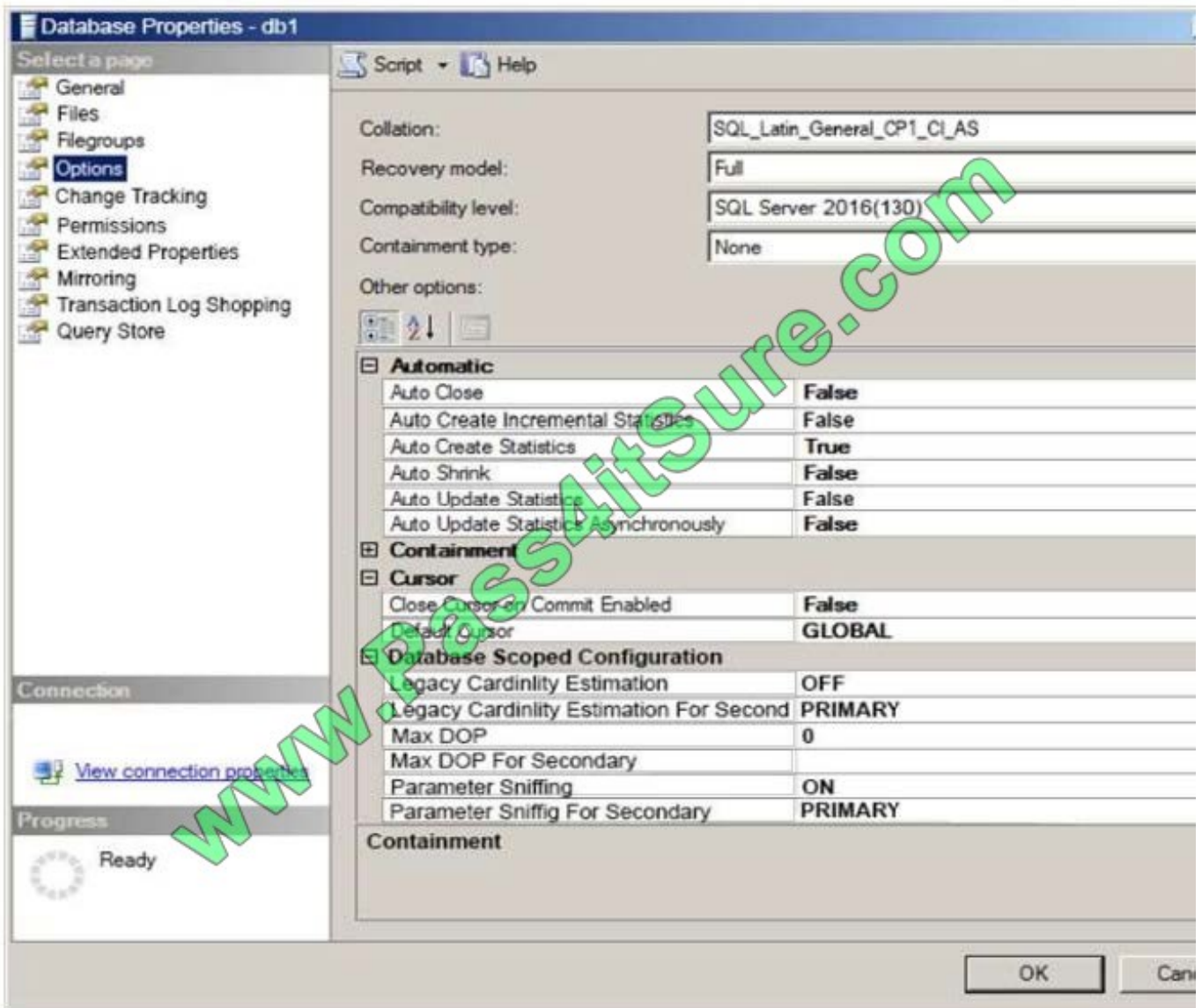
QUESTION 2

You have Microsoft SQL Server on a Microsoft Azure virtual machine. The virtual machine has a database named DB1. DB1 contains a table named Table1 that has 4 billion rows.

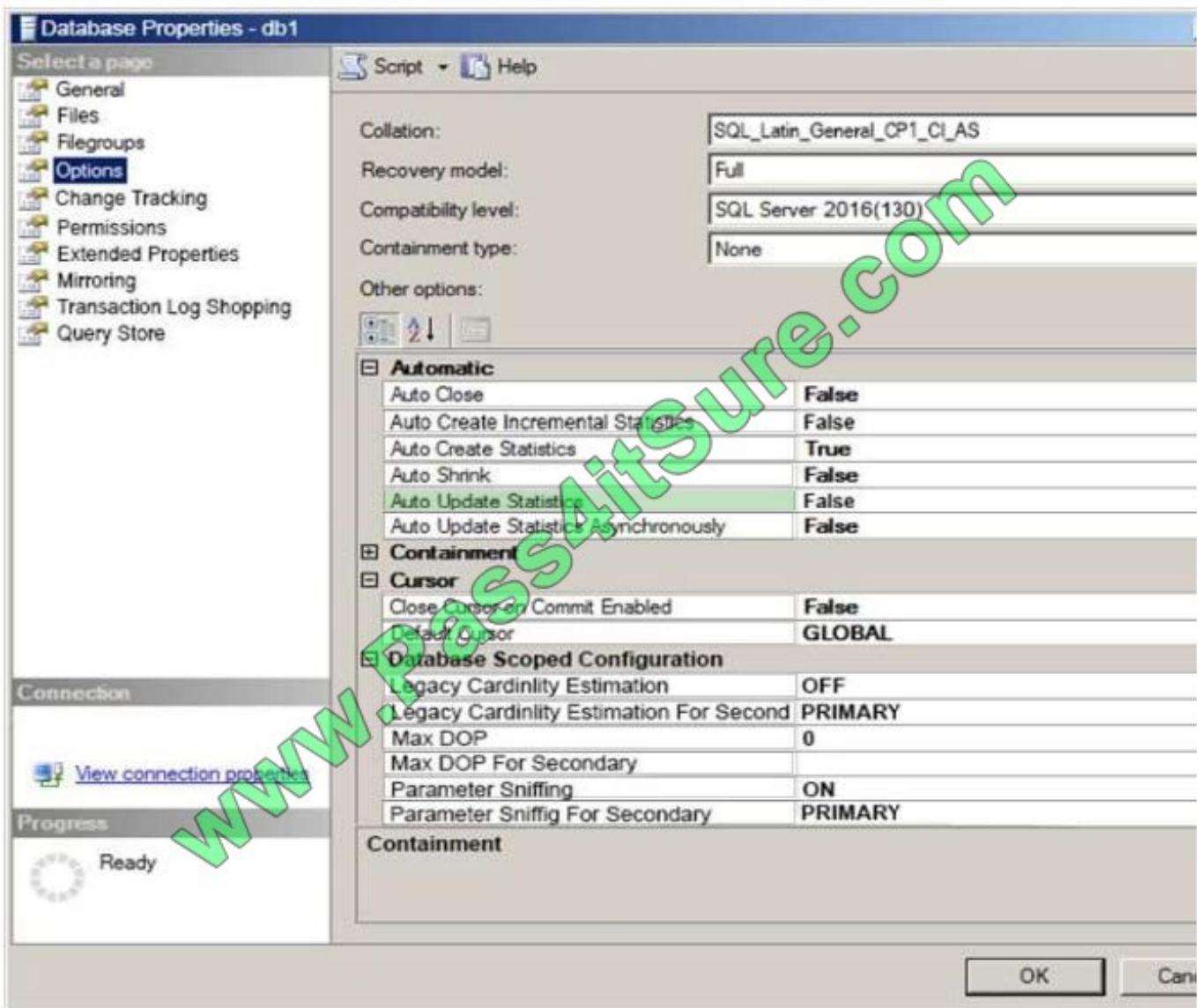Users report that a query using Table1 takes longer than expected to execute.

You review the execution plan for the query and discover that the expected number of returned rows is one, while the actual number of returned rows is 1 million.

You need to reduce the amount of time it takes for the query to execute. The solution must prevent additional performance issues from being introduced.

Hot Area:

Database Properties - db1

Select a page
- General
- Files
- Filegroups
- Options
- Change Tracking
- Permissions
- Extended Properties
- Mirroring
- Transaction Log Shopping
- Query Store

Script ▾ Help

Collation:	SQL_Latin_General_CP1_CI_AS
Recovery model:	Full
Compatibility level:	SQL Server 2016(130)
Containment type:	None

Other options:

Automatic

Auto Close	False
Auto Create Incremental Statistics	False
Auto Create Statistics	**True**
Auto Shrink	False
Auto Update Statistics	False
Auto Update Statistics Asynchronously	False

Containment

Cursor

Close Cursor on Commit Enabled	False
Default Cursor	**GLOBAL**

Database Scoped Configuration

Legacy Cardinlity Estimation	OFF
Legacy Cardinlity Estimation For Second	PRIMARY
Max DOP	0
Max DOP For Secondary	
Parameter Sniffing	ON
Parameter Sniffig For Secondary	PRIMARY

Containment

Connection

View connection properties

Progress

Ready

OK   Can

Correct Answer:

When you set the AUTO_CREATE_STATISTICS option on, the Query Optimizer creates statistics on individual columns used in a predicate, if these statistics are not already available. These statistics are necessary to generate the query

plan.

References: https://www.mssqltips.com/sqlservertip/2766/sql-server-auto-update-and-autocreate-statisticsoptions/

QUESTION 3

You use Microsoft SQL Server 2014 to develop a database application. You need to implement a computed column that references a lookup table by using an INNER JOIN against another table. What should you do?

A. Reference a user-defined function within the computed column.

B. Create a BEFORE trigger that maintains the state of the computed column.

C. Add a default constraint to the computed column that implements hard-coded values.

D. Add a default constraint to the computed column that implements hard-coded CASE statements.

Correct Answer: A

A common way to define a computed column is by using a user-defined function (UDF) to encapsulate the calculation logic. References:https://blogs.msdn.microsoft.com/sqlcat/2011/11/28/a-computed-column-defined-with-a-user-defined-function-might-impact-query-performance/

QUESTION 4

You plan to enable Stretch Database for a table named Table1.

You need to configure Table1 to move the data to Microsoft Azure. The data must be moved at a later time.

How should you complete the statement? 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

INBOUND	MIGRATION_STATE
OFF	OUTBOUND
PAUSED	REMOTE_DATA_ARCHIVE
STRETCH_DB	

Answer Area

```
ALTER TABLE table1

SET (        Value        = ON (        Value        =        Value        ));
```

Correct Answer:

Values

INBOUND	
OFF	OUTBOUND
STRETCH_DB	

Answer Area

ALTER TABLE table1

SET (REMOTE_DATA_ARCHIVE = ON MIGRATION_STATE = PAUSED));

QUESTION 5

You plan to install Microsoft SQL Server 2014 for a web hosting company.

The company plans to host multiple web sites, each supported by a SQL Server database.

You need to select an edition of SQL Server that features backup compression of databases, basic data integration features, and low total cost of ownership.

Which edition should you choose?

A. Express Edition with Tools

B. Standard Edition

C. Web Edition

D. Express Edition with Advanced Services

Correct Answer: B

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