



70-764^{Q&As}

Administering a SQL Database Infrastructure

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QUESTION 1

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

You maintain a Microsoft SQL Server instance that contains the following databases SalesDb1, SalesDb2, and SalesDb3. Each database has table named Products and Sales. The following table

shows the configuration of each database.

| Option of configurat on | SalesDb1 | SalesDb2 | SalesDb3 |
|---------------------------------------|------------|---------------|------------|
| Recovery model | Full | Full | Simple |
| Query Store operation model | Read Write | Off | Off |
| Auto Update Statistics | True | False | False |
| Auto Update Statistics asynchronously | False | False | False |
| Sales data age | < 1 month | 1 to 6 months | > 6 months |

The backup strategies for each database are described in the following table.

| Database | Strategy | Backup file names |
|----------|---|---|
| SalesDb1 | Full database backups occur daily at 00:00. Log backups occur every hour. | SalesDb1Full_*.bak SalesDb1Log.bak |
| SalesDb2 | Full database backups occur every three months. Differential backups occur every month. Logs are not backed up. | SalesDb2Delta_*.bak SalesDb2Full_*.bak |
| SalesDb3 | Full database backups occur every five years. Differential backups occur every six months. | SalesDb3Delta_*.bak SalesDb3Full_*.bak |

Each full or differential backup operation writes into a new file and uses a different sequence number. You observe the following database corruption issues.



| Database | Error | Description |
|----------|-------|--|
| SalesDb2 | 824 | Some data pages that store table row data are torn. All backups for SalesDb2 are lost. |
| SalesDb3 | 823 | You observe bad checksum issues for data pages that store table row data. All backups are available. No new data has been added to the table since the latest differential backup. |

SalesDb3 reports a number of database corruption issues related to error 823 and 824 when reading data pages. You must display the following information about the corrupted pages:

database name

impacted file id

impacted file physical name

impacted page id

event type that identifies the error type

error count

Users report performance issues when they run queries against SalesDb2. You plan to monitor query statistics and execution plans for SalesDb2 by using Query Store. The monitoring strategy must

meet the following requirements:

Perform automatic data cleanup when query store disk usage reaches 500 megabyte (MB).

Capture queries based on resource consumption.

Use a stale query threshold value of 60 days.

The query optimizer generates suboptimal execution plans for a number of queries on the Sales table in SalesDb2. You will create a maintenance plan that updates statistics for the table. The plan

should only update statistics that were automatically created and have not been updated for 30 days. The update should be based on all data in the table.

You need to monitor query statistics and execution plans for SalesDb2.

Which options should you set for the Query Store configuration? To answer, select the appropriate options in the answer area.



Select the events you want to capture from the event library

Event library:

deadlock

in Event names only

Select events

| Name | Category ▼ | Channel |
|---|------------------|-------------|
| xml_deadlock_report | deadlock_monitor | Admin |
| scheduler_monitor_deadlock_ring_buffer_recorded | scheduling | Operational |
| lock_deadlock_chain | lock | Analytic |
| lock_deadlock | lock | Analytic |
| database_xml_deadlock_report | deadlock_monitor | Admin |

| Name | | |
|------------------------|---|---|
| lock_timeout | 2 | ✓ |
| lock_escalation | 2 | ✓ |
| lock-cancel | 2 | ✓ |
| blocked_process_report | 4 | ✓ |

Event Fields

Description

Hot Area:

Answer Area

Query Store configuration

Option

Operation Mode

| |
|------------|
| ▼ |
| Off |
| READ_ONLY |
| Read-Write |

Query Store Capture Mode

| |
|------|
| ▼ |
| Auto |
| All |
| None |

Size Based Cleanup Mode

| |
|------|
| ▼ |
| Off |
| AUTO |

Correct Answer:



Answer Area

Query Store configuration

Option

Operation Mode

| |
|------------|
| ▼ |
| Off |
| READ_ONLY |
| Read-Write |

Query Store Capture Mode

| |
|------|
| ▼ |
| Auto |
| All |
| None |

Size Based Cleanup Mode

| |
|------|
| ▼ |
| Off |
| AUTO |

Operation Mode: Read-Write

Query Store Capture Mode: Auto

Size Based Cleanup Mode: AUTO

Operation Mode: Read-Write

It is strongly recommended to activate size-based cleanup to makes sure that Query Store always runs in read-write mode and collects the latest data.

Query Store Capture Mode: Auto

Auto – Infrequent queries and queries with insignificant compile and execution duration are ignored. Thresholds for execution count, compile and runtime duration are internally determined.

Size Based Cleanup Mode: AUTO

It is strongly recommended to activate size-based cleanup to makes sure that Query Store always runs in read-write mode and collects the latest data.

OFF – size based cleanup won't be automatically activated.

AUTO - size based cleanup will be automatically activated when size on disk reaches 90% of max_storage_size_mb. This is the default configuration value.

Size based cleanup removes the least expensive and oldest queries first. It stops at approximately 80% of max_storage_size_mb.



References:

<https://docs.microsoft.com/en-us/sql/relational-databases/system-catalog-views/sysdatabase-query-store-options-transact-sql>

<https://docs.microsoft.com/en-us/sql/relational-databases/performance/best-practice-withthe-query-store#set-the-optimal-query-capture-mode>

QUESTION 2

You use a contained database named ContosoDb within a domain. You need to create a user who can log on to the ContosoDb database.

You also need to ensure that you can port the database to different database servers within the domain without additional user account configurations.

Which type of user should you create?

- A. User mapped to a certificate
- B. SQL user without login
- C. Domain user
- D. SQL user with login

Correct Answer: C

QUESTION 3

You need to recommend a backup process for data warehouse database. The solution must meet the following requirements:

Ensure that if a hardware failure occurs, you can bring the database online without losing more than 24 hours of transactions.

Minimize the amount of administrative effort required to restore any lost data.

Minimize the space used by transaction logs.

What should you include in the recommendation? 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

- Perform a weekly full backup of the database
- Ship the logs to a secondary server
- Set the database to the simple recovery model
- Set the database to the full recovery model
- Create a database snapshot
- Perform a backup of the transaction log every hour
- Perform a differential backup of the database every night

Work Area

Correct Answer:

Actions

- Ship the logs to a secondary server
- Set the database to the full recovery model
- Create a database snapshot
- Perform a backup of the transaction log every hour

Work Area

- Set the database to the simple recovery model
- Perform a weekly full backup of the database
- Perform a differential backup of the database every night

Set the database to the simple recovery model;

Perform a weekly full backup of the database;

Perform a differential backup of the database every night

Note:

-Simple recovery model No log backups.

-Full recovery model Requires log backups

QUESTION 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 support an application that stores data in a Microsoft SQL Server database. You have a query that returns data for a report that users run frequently.

The query optimizer sometimes generates a poorly-performing plan for the query when certain parameters are used. You observe that this is due to the distribution of data within a specific table that the query uses.

You need to ensure that the query optimizer always uses the query plan that you prefer.

Solution: You create a copy of the plan guide for the query plan.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

PLAN should be used as it forces the query optimizer not to recompile a query due to changes in statistics. References: <https://docs.microsoft.com/en-us/sql/t-sql/queries/hints-transact-sql-query?view=sql-server-2017>

QUESTION 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.

A company has an on-premises Microsoft SQL Server environment and Microsoft Azure SQL Database instances. The environment hosts several customer databases.

One customer reports that their database is not responding as quickly as the service level agreements dictate. You observe that the database is fragmented.

You need to optimize query performance.

Solution: You rebuild all indexes.

Does the solution meet the goal?

A. Yes



B. No

Correct Answer: A

You can remedy index fragmentation by either reorganizing an index or by rebuilding an index. References:
[https://msdn.microsoft.com/en-us/library/ms189858\(v=sql.105\).aspx](https://msdn.microsoft.com/en-us/library/ms189858(v=sql.105).aspx)

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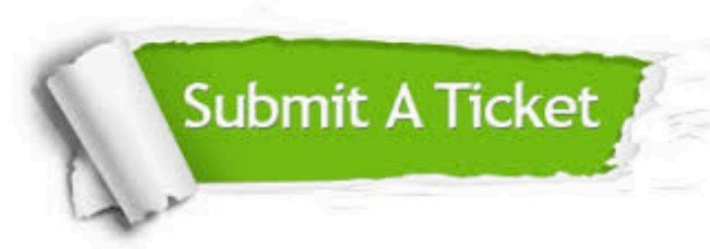
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