



# 70-465<sup>Q&As</sup>

Designing Database Solutions for Microsoft SQL Server

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### QUESTION 1

You need to recommend a solution to synchronize Database2 to App1\_Db1. What should you recommend?

- A. Change data capture
- B. Snapshot replication
- C. Master Data Services
- D. Transactional replication

Correct Answer: D

Scenario:

\*

Data from Database2 will be accessed periodically by an external application named Application1. The data from Database2 will be sent to a database named App1\_Db1 as soon as changes occur to the data in Database2.

\*

All data in Database2 is recreated each day and does not change until the next data creation process.

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### QUESTION 2

You have an SQL Server 2014 server named SQL1.

You are designing a performance monitoring solution.

You need to monitor the following events on SQL1:

A deadlock graph

Missing column statistics CPU performance statistics A batch of completed Transact-SQL statements

Which two tools should you use? Each correct answer presents a complete solution.

- A. dynamic management views
- B. Database Engine Tuning Advisor
- C. SQL Server Profiler
- D. Activity Monitor
- E. Data Profile Viewer

Correct Answer: BC

Explanation: B: Database Engine Tuning Advisor examines how queries are processed in the databases you specify.



When you run a Profiler Trace and feed it to the Database Engine Tuning Advisor, it also looks for missing column statistics, and it can automatically create them for you.

C: Use SQL Server Profiler to identify the cause of a deadlock. A deadlock occurs when there is a cyclic dependency between two or more threads, or processes, for some set of resources within SQL Server. Using SQL Server Profiler, you can create a trace that records, replays, and displays deadlock events for analysis. Reference: Analyze Deadlocks with SQL Server Profiler <https://msdn.microsoft.com/en-us/library/ms188246.aspx> Reference: Mastering SQL Server Profiler, page 245

### QUESTION 3

You define a table by using the following statement.

```
CREATE TABLE School.dbo.Teachers
(
    ID INT PRIMARY KEY,
    Teacher XML
)
```

The Teachers table contains one million records. A sample record of the XML data output is as follows:

```
<teacher>
  <id>12345</id>
  <name>Elementary Teacher1</name>
  <grade>5</grade>
  <subjects>
    <subject>English</subject>
    <subject>Math</subject>
  </subjects>
</teacher>
```

You plan to create queries against the table based on grade.

You need to recommend which indexes should be applied to the XML fields. The solution must meet the following requirements: Reduce the amount of time required to query the table based on grade. Minimize the size of the index.

What should you recommend? To answer, drag the appropriate index types to the correct fields. Each index type 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.

Select and Place:



**Index Types**

- No index
- Primary XML index
- Secondary XML index
- Selective XML index

**Answer Area**

Grade:

Id:

Subject:

Correct Answer:

**Index Types**

- 
- 
- 
- Selective XML index

**Answer Area**

Grade:

Id:

Subject:

**QUESTION 4**

You are planning to deploy a database to Windows Azure SQL Database.

You need to design a stored procedure to update rows. The stored procedure must meet the following requirements:

If the update fails, an error must be raised to the application and the update must be discarded.

The stored procedure must be designed to maximize concurrency.

What should you include in your design? 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	Work Area
Raise an error in a catch block.	
Commit the transaction in a finally block.	
Read the @@ROWCOUNT system variable.	
Perform the update in a try block.	
Raise an error and roll back the transaction if the row count is less than 1.	
Issue a SELECT statement to count the number of rows.	
Set the isolation level to serializable.	
Begin an explicit transaction.	

Correct Answer:

Actions	Work Area
Raise an error in a catch block.	Begin an explicit transaction.
	Perform the update in a try block.
	Read the @@ROWCOUNT system variable.
	Raise an error and roll back the transaction if the row count is less than 1.
	Commit the transaction in a finally block.
Issue a SELECT statement to count the number of rows.	
Set the isolation level to serializable.	

Box 1: Begin an explicit transaction.

Box 2: Perform an update in a try block.

Box 3: Read the @@ROWCOUNT system variable.

Box 4: Raise an error and roll back the transaction if the row count is less than 1.

Box 5: Commit the transaction in a finally block.



Note:

\* Read Committed is SQL Server's default isolation level.

\* @@ROWCOUNT

returns the number of rows affected by the last statement.

\* Using TRY...CATCH in a transaction

The following example shows how a TRY...CATCH block works inside a transaction. The statement inside the TRY block generates a constraint violation error.

```
BEGIN TRANSACTION;

BEGIN TRY

-- Generate a constraint violation error.

DELETE FROM Production.Product

WHERE ProductID = 980;

END TRY

BEGIN CATCH

SELECT

ERROR_NUMBER() AS ErrorNumber

,ERROR_SEVERITY() AS ErrorSeverity

,ERROR_STATE() AS ErrorState

,ERROR_PROCEDURE() AS ErrorProcedure

,ERROR_LINE() AS ErrorLine

,ERROR_MESSAGE() AS ErrorMessage;

IF @@TRANCOUNT > 0

ROLLBACK TRANSACTION;

END CATCH;

IF @@TRANCOUNT > 0

COMMIT TRANSACTION;

GO
```

---

## QUESTION 5



You need to recommend a solution for the deployment of SQL Server 2014. The solution must meet the business requirements. What should you include in the recommendation?

- A. Create a new instance of SQL Server 2014 on the server that hosts the SQL Server 2008 instance.
- B. Upgrade the existing SQL Server 2008 instance to SQL Server 2014.
- C. Deploy two servers that have SQL Server 2014 installed and implement Failover Clustering.
- D. Deploy two servers that have SQL Server 2014 installed and implement database mirroring.

Correct Answer: C

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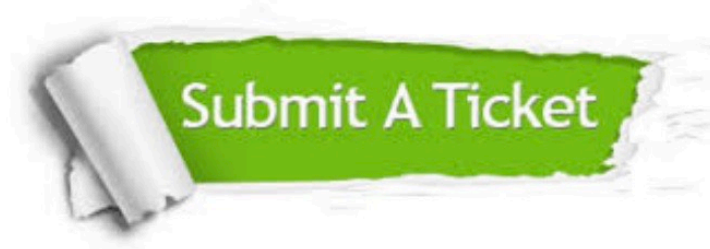
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