



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

Designing Database Solutions for Microsoft SQL Server

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### QUESTION 1

You have a server named SQL1 that has SQL Server 2014 installed. SQL1 hosts a database named Database! Database1 contains a table named Table1.

Table1 is partitioned across five filegroups based on the TransactionType field.

The schema of Table1 is configured as shown in the following table.

Column	Data type
ID	Bigint
Account	Bigint
Amount	Decimal
TransactionType	Int
TransactionDate	Date

Table1 contains the indexes shown in the following table.

Index	Type	Column
PK_Table1	Clustered, primary key	ID, TransactionType
IX_Account	Nonclustered	Account
IX_Type	Nonclustered	TransactionType
IX_Date	Nonclustered	TransactionDate
IX_Amount	Nonclustered	Amount

You need to recommend an index strategy to maximize performance for the queries that consume the indexes available to Table1.

Which type of index storage should you recommend? To answer, drag the appropriate index storage type to the correct index in the answer area.

Select and Place:

The screenshot shows a drag-and-drop interface. On the left, under 'Index Storage Types', there are two options: 'Aligned' and 'Nonaligned'. On the right, under 'Answer Area', there are four index names: 'IX\_Type', 'IX\_Account', 'IX\_DATE', and 'IX\_Amount'. Each index name is followed by a box labeled 'Index Storage Type'. A watermark 'www.Pass4itSure.com' is visible across the interface.

Correct Answer:



Index Storage Types	Answer Area
<input type="text" value="Aligned"/>	IX_Type <input type="text" value="Aligned"/>
<input type="text" value="Nonaligned"/>	IX_Account <input type="text" value="Nonaligned"/>
	IX_DATE <input type="text" value="Nonaligned"/>
	IX_Amount <input type="text" value="Nonaligned"/>

Note:

Index Storage Type

\* Designing a partitioned index independently (unaligned) of the base table can be useful in the following cases:

/The base table has not been partitioned.

/The index key is unique and it does not contain the partitioning column of the table. / You want the base table to participate in collocated joins with more tables g different join columns.

## QUESTION 2

You plan to create a database.

The database will be used by a Microsoft .NET application for a special event that will last for two days.

During the event, data must be highly available.

After the event, the database will be deleted.

You need to recommend a solution to implement the database while minimizing costs. The solution must not affect any existing applications.

What should you recommend?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. SQL Server 2014 Enterprise
- B. SQL Server 2014 Standard
- C. SQL Azure
- D. SQL Server 2014 Express with Advanced Services

Correct Answer: B

Programmability (AMO, ADOMD.Net, OLEDB, XML/A, ASSL) supported by Standard and Enterprise editions only.

Reference: Features Supported by the Editions of SQL Server 2014



### QUESTION 3

You are troubleshooting an application that runs a query. The application frequently causes deadlocks.

You need to identify which transaction causes the deadlock.

What should you do?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Query the sys.dm\_exec\_sessions dynamic management view.
- B. Query the sys.dm\_exec\_requests dynamic management view.
- C. Create a trace in SQL Server Profiler that contains the Deadlock graph event
- D. Create an extended events session to capture deadlock information.

Correct Answer: D

Troubleshooting deadlocks

You have been receiving reports from users indicating that certain applications are returning deadlock errors. To maximize the effectiveness of troubleshooting these problems, you decide to focus on the deadlocks that are hit most frequently.

You create an Extended Events session that:

/ Configures deadlock event tracking for the session.

/ Specifies a target that aggregates based on an identifier for the deadlock.

You run the Extended Events session, and after additional deadlocks are reported you are able to obtain aggregated deadlock information, along with the complete XML deadlock graph for each source. Using this information you are able to

pin point the most common deadlocks and start working on a solution.

Create an Extended Events Session

View Event Session Data

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### QUESTION 4

What should you create in Azure to support the creation of the backups for DB1?

- A. an Azure Content Delivery Network (CDN) endpoint
- B. a Service Bus namespace
- C. a storage account
- D. a cloud service



Correct Answer: C

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### QUESTION 5

You need to recommend a solution that resolves the missing data issue. The solution must minimize the amount of development effort. What should you recommend?

- A. Denormalize the Products table.
- B. Denormalize the OrderDetails table.
- C. Normalize the OrderDetails table.
- D. Normalize the Products table.

Correct Answer: D

\* Scenario:

/ Missing Data Issues

Customers report that when they make a price change in the Products table, they cannot retrieve the price that the item was sold for in previous orders.

/ The current database schema contains a table named OrderDetails. The OrderDetails table contains information about the items sold for each purchase order.

OrderDetails stores the product ID, quantities, and discounts applied to each product in a purchase order. The product price is stored in a table named Products.

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### QUESTION 6

You are creating a database that will store usernames and credit card numbers for an application.

You need to recommend a solution to store and reuse the credit card numbers in the database.

What should you recommend? More than one answer choice may achieve the goal. Select the BEST answer.

- A. Data encryption
- B. Transparent Data Encryption (TDE)
- C. Encrypting File System (EFS)
- D. Data hashing

Correct Answer: B

If we are going to encrypt credit card number for storage, then we should have Data Encryption Key (DEK) for encrypting the credit card number. Reference: <http://msdn.microsoft.com/en-us/library/bb934049.aspx>

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**QUESTION 7**

You are designing a monitoring application for a new SQL Server 2014 instance.

You need to recommend a solution to generate a report that displays the 10 most frequent wait types that occur for the instance.

What should you include in the recommendation?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. The SQL Server error log
- B. The sys.dm\_os\_wait\_stats dynamic management view
- C. The DBCC SQLPERF(WAITSTATS) command
- D. SQL Server Profiler

Correct Answer: B

sys.dm\_os\_wait\_stats

Returns information about all the waits encountered by threads that executed. You can use this aggregated view to diagnose performance issues with SQL Server and also with specific queries and batches.

Columns include:

waiting\_tasks\_count

Number of waits on this wait type. This counter is incremented at the start of each wait.

Reference:

sys.dm\_db\_wait\_stats (Windows Azure SQL Database)

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**QUESTION 8**

You need to recommend a solution for the error handling of USP\_3. The solution must minimize the amount of custom code required.

What should you recommend?

- A. Use the @@ERROR variable in the nested stored procedures.
- B. Use a TRY CATCH block in the called stored procedures.
- C. Use the @@ERROR variable in the called stored procedures.
- D. Use the RAISERROR command in the nested stored procedures.

Correct Answer: B



\*

Must catch and handle the error.

\*

Scenario: A stored procedure named USP\_3 is used to update prices. USP\_3 is composed of several UPDATE statements called in sequence from within a transaction. Currently, if one of the UPDATE statements fails, the stored procedure continues to execute.

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### QUESTION 9

You have two SQL Server instances named SQLDev and SQLProd that have access to various storage media.

You plan to synchronize SQLDev and SQLProd.

You need to recommend a solution that meets the following requirements:

The database schemas must be synchronized from SQLDev to SQLProd. The database on SQLDev must be deployed to SQLProd by using a package. The package must support being deployed to Windows Azure SQL Database.

What should you recommend?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. A database snapshot
- B. SQL Server Integration Services (SSIS)
- C. Change data capture
- D. A data-tier application

Correct Answer: B

\* SIS supports connections to SQL Database by using the ADO.NET provider. OLEDB is not supported at this time. You can build the SSIS package connecting to SQL Database and create the data flow tasks the same way as you would against a typical on-premise SQL Server. Reference: SSIS for Azure and Hybrid Data Movement

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### QUESTION 10

You have four databases that are accessed by using an Online Transaction Processing (OLTP) application. The databases are stored on a server named SQL1 that has SQL Server 2014 installed.

You plan to deploy an additional server that has SQL Server 2014 installed. You need to design a high-availability solution for the databases that meets the following requirements:

If SQL1 fails, the databases must be available.

Users must be able to run reports against a secondary copy of the databases.

What should you include in the design?



More than one answer choice may achieve the goal. Select the BEST answer.

- A. AlwaysOn availability groups
- B. Database mirroring
- C. Log shipping
- D. Failover Clustering

Correct Answer: A

The AlwaysOn Availability Groups feature is a high-availability and disaster-recovery solution that provides an enterprise-level alternative to database mirroring.

Introduced in SQL Server 2012, AlwaysOn Availability Groups maximizes the availability of a set of user databases for an enterprise. An availability group supports a failover environment for a discrete set of user databases, known as

availability databases that fail over together.

Reference: Failover and Failover Modes (AlwaysOn Availability Groups)

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#### QUESTION 11

You are using dynamic management views to monitor an SQL Server server named SQL1.

A database administrator named Dba1 must monitor the health of SQL1.

You need to ensure that Dba1 can access dynamic management views for SQL1. The solution must use the principle of least privilege.

Which permissions should you assign to Dba1?

- A. VIEW ANY DEFINITION
- B. VIEW SERVER STATE
- C. VIEW DEFINITION
- D. CONTROL SERVER

Correct Answer: B

Explanation: To query a dynamic management view or function requires SELECT permission on object and VIEW SERVER STATE or VIEW DATABASE STATE permission. Reference: Dynamic Management Views and Functions (Transact-SQL) <https://msdn.microsoft.com/en-us/library/ms188754.aspx>

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#### QUESTION 12

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

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### QUESTION 13

You have an SQL Server 2014 instance named SQL1.

SQL1 creates error events in the Windows Application event log.

You need to recommend a solution that will run an application when SQL1 logs a specific error in the Application log.

Which SQL elements should you include in the recommendation? (Each correct answer presents part of the solution. Choose all that apply.)

- A. A policy
- B. A maintenance plan
- C. An alert
- D. A job
- E. A trigger

Correct Answer: DE

Use a trigger that starts a job which executes the application. Reference: <http://technet.microsoft.com/en->



us/library/hh849759.aspx

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#### QUESTION 14

You have two databases named DB1 and DB2 that are located on the same server.

You plan to create a stored procedure named SProc1 in DB1.

SProc1 will query a table named Table2 in DB2.

You need to recommend a solution to ensure that SProc1 can access Table2 without granting users direct access to Table2.

What should you include in the recommendation?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. Contained databases
- B. Application roles
- C. Cross-database ownership chaining
- D. Digital certificates

Correct Answer: B

An application role is a database principal that enables an application to run with its own, user-like permissions. You can use application roles to enable access to specific data to only those users who connect through a particular application.

Unlike database roles, application roles contain no members and are inactive by default.

Reference: Application Roles

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#### QUESTION 15

You plan to deploy SQL Server 2014.

Your company identifies the following monitoring requirements:

Tempdb must be monitored for insufficient free space.

Deadlocks must be analyzed by using Deadlock graphs.

You need to identify which feature meets each monitoring requirement.

Which features should you identify? To answer, drag the appropriate feature to the correct monitoring requirement in the answer area.

Select and Place:



Features	Answer Area		
dynamic management view	<p>Tempdb must be monitored for insufficient free space.</p> <p>Deadlocks must be analyzed by using Deadlock graphs.</p>		
Activity Monitor			
Resource Governor			
SQL Trace			
	<table border="1"> <tr><td>Feature</td></tr> <tr><td>Feature</td></tr> </table>	Feature	Feature
Feature			
Feature			

Correct Answer:

Features	Answer Area		
	<p>Tempdb must be monitored for insufficient free space.</p> <p>Deadlocks must be analyzed by using Deadlock graphs.</p>		
Activity Monitor			
Resource Governor			
	<table border="1"> <tr><td>dynamic management view</td></tr> <tr><td>SQL Trace</td></tr> </table>	dynamic management view	SQL Trace
dynamic management view			
SQL Trace			

\* You can use the sys.dm\_db\_file\_space\_usage dynamic management view to monitor the disk space used by the user objects, internal objects, and version stores in the tempdb files. Additionally, to monitor the page allocation or deallocation activity in tempdb at the session or task level, you can use the sys.dm\_db\_session\_space\_usage and sys.dm\_db\_task\_space\_usage dynamic management views. These views can be used to identify large queries, temporary tables, or table variables that are using a large amount of tempdb disk space.

\* / 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. / SQL Server Profiler and SQL Server Management Studio use a deadlock wait-for graph to describe a deadlock. The deadlock wait-for graph contains process nodes, resource nodes, and edges representing the relationships between the processes and the resources.

Reference: Troubleshooting Insufficient Disk Space in tempdb Reference: Analyze Deadlocks with SQL Server Profiler



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