



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

Designing Database Solutions for Microsoft SQL Server

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### QUESTION 1

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 (EPS)
- 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 2

You need to recommend changes to the ERP application to resolve the search issue. The solution must minimize the impact on other queries generated from the ERP application. What should you recommend changing?

- A. The collation of the Products table
- B. The index on the ProductName column
- C. The collation of the ProductName column
- D. The data type of the ProductName column

Correct Answer: C

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### QUESTION 3

You need to recommend a disaster recovery solution for the Dev database.

What should you include in the recommendation?

- A. The simple recovery model and full backups
- B. The bulk-logged recovery model and full backups
- C. The full recovery model, full backups, and differential backups
- D. The full recovery model, full backups, and transaction log backups



Correct Answer: A

\*

Scenario: You must be able to recover data from the Dev database if data is lost accidentally. You have a Recovery Point Objective (RPO) of one day.

\*

The simple recovery model provides the simplest form of backup and restore. This recovery model supports both database backups and file backups, but does not support log backups. Transaction log data is backed up only with the associated user data. The absence of log backups simplifies managing backup and restore. . However, a database can be restored only to the end of the most recent backup.

Incorrect:

Not B: The bulk-logged recovery model is a special-purpose recovery model that should be used only intermittently to improve the performance of certain largescale bulk operations, such as bulk imports of large amounts of data.

#### QUESTION 4

You have a SQL Azure database named Database1.

You need to design the schema for a table named table1. Table1 will have less than one million rows. Table1 will contain the following information for each row:

Column	Description
ID	An incremental numeric value used to identify the row
Name	A string in English
Code	An alphanumeric code that has five characters
ModifiedDate	The date of the last modification

The solution must minimize the amount of space used to store each row.

Which data types should you recommend for each column? To answer, drag the appropriate data type to the correct column in the answer area.

Select and Place:



Data Types	Answer Area
int	ID <input type="text" value="Data type"/>
bigint	Name <input type="text" value="Data type"/>
varchar	Code <input type="text" value="Data type"/>
nvarchar	ModifiedDate <input type="text" value="Data type"/>
char	
smalldatetime	
date	

Correct Answer:



Data Types	Answer Area
	ID int
bigint	Name varchar
	Code char
nvarchar	ModifiedDate date
smalldatetime	

<http://msdn.microsoft.com/en-US/library/ms187752.aspx>

### QUESTION 5

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:

**Index Storage Types**

Aligned

Nonaligned

**Answer Area**

IX\_Type

Index Storage Type

IX\_Account

Index Storage Type

IX\_DATE

Index Storage Type

IX\_Amount

Index Storage Type

Correct Answer:

**Index Storage Types**

Aligned

Nonaligned

**Answer Area**

IX\_Type

Aligned

IX\_Account

Nonaligned

IX\_DATE

Nonaligned

IX\_Amount

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

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participate in collocated joins with more tables g different join columns.

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### QUESTION 6

You need to recommend a solution to minimize the amount of time it takes to execute USP\_1.

With what should you recommend replacing Table1?

- A. An indexed view
- B. A function
- C. A table variable
- D. A temporary table

Correct Answer: D

Scenario: A stored procedure named USP\_1 generates millions of rows of data for multiple reports. USP\_1 combines data from five different tables from the Sales and Customers databases in a table named Table1.

After Table1 is created, the reporting process reads data from a table in the Products database and searches for information in Table1 based on input from the table. After the process is complete, Table1 is deleted.

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### QUESTION 7

You plan to deploy SQL Server 2014.

You identify the following security requirements for the deployment:

Users must be prevented from intercepting and reading the T-SQL statements sent from the clients to the database engine.

All database files and log files must be encrypted if the files are moved to another disk on another server.

You need to identify which feature meets each security requirement. The solution must minimize processor overhead.

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

Select and Place:





Features	Answer Area
Encrypting File System (EFS)	<p>Users must be prevented from intercepting and reading the T-SQL statements sent from the clients to the database engine.</p> <p>All database files and log files must be encrypted if the files are moved to another disk on another server.</p>
Policy-Based Management	
Secure Socket Layer (SSL)	Feature
Transparent Data Encryption (TDE)	Feature
Windows BitLocker Drive Encryption (BitLocker)	

Correct Answer:

Features	Answer Area
Encrypting File System (EFS)	<p>Users must be prevented from intercepting and reading the T-SQL statements sent from the clients to the database engine.</p> <p>All database files and log files must be encrypted if the files are moved to another disk on another server.</p>
Policy-Based Management	
	Secure Socket Layer (SSL)
	Transparent Data Encryption (TDE)
Windows BitLocker Drive Encryption (BitLocker)	

\* Secure Sockets Layer (SSL) encryption enables transmitting encrypted data across the network between an instance of SQL Server and a client application.

\* Transparent data encryption (TDE) performs real-time I/O encryption and decryption of the data and log files.

### QUESTION 8

You need to recommend the actions that are required to partition a table.

In which order should the four actions be performed? To answer, move the actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:





Actions	Answer Area
Create a partition scheme.	
Create a partition function.	
Create filegroups.	
Create the table.	

Correct Answer:

Actions	Answer Area
	Create filegroups.
	Create a partition function.
	Create a partition scheme.
	Create the table.

create a partitioned table using the AdventureWorks2012 database:

```
CREATE PARTITION FUNCTION TransactionRangePF1 (DATETIME)
AS RANGE RIGHT FOR VALUES
(
    \20071001\, \20071101\, \20071201\, \20080101\,
    \20080201\, \20080301\, \20080401\, \20080501\,
    \20080601\, \20080701\, \20080801\
);
GO
CREATE PARTITION SCHEME TransactionsPS1 AS PARTITION TransactionRangePF1 TO (
[PRIMARY], [PRIMARY], [PRIMARY], [PRIMARY], [PRIMARY],
[PRIMARY], [PRIMARY], [PRIMARY], [PRIMARY], [PRIMARY],
```



```
[PRIMARY], [PRIMARY], [PRIMARY]
);
GO
CREATE TABLE dbo.TransactionHistory
(
TransactionID INT NOT NULL, -- not bothering with IDENTITY here
ProductID INT NOT NULL,
ReferenceOrderID INT NOT NULL,
ReferenceOrderLineID INT NOT NULL DEFAULT (0),
TransactionDate DATETIME NOT NULL DEFAULT (GETDATE()),
TransactionType NCHAR(1) NOT NULL,
Quantity INT NOT NULL,
ActualCost MONEY NOT NULL,
ModifiedDate DATETIME NOT NULL DEFAULT (GETDATE()),
CONSTRAINT CK_TransactionType
CHECK (UPPER(TransactionType) IN (N'W', N'S', N'P'))
)
ON TransactionsPS1 (TransactionDate);
GO
```

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### QUESTION 9

You deploy a SQL Server instance named SQLProd that uses SQL Server 2014.

You need to recommend a solution to monitor the transactions that are running currently against SQLProd. The solution must minimize the amount of custom code required.

What should you recommend?

- A. Statistics
- B. A dynamic management view
- C. A trigger
- D. User-defined views



Correct Answer: B

Dynamic management views and functions return server state information that can be used to monitor the health of a server instance, diagnose problems, and tune performance.

Transactions can be monitored.

Reference: Dynamic Management Views and Functions (Transact-SQL)

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#### QUESTION 10

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

You need to identify the isolation level used by the query when a deadlock occurs.

What should you do?

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

- A. Query the `sys.dm_exec_requests` dynamic management view.
- B. Create a trace in SQL Server Profiler that contains the Deadlock graph event.
- C. Query the `sys.dm_exec_sessions` dynamic management view.
- D. Enable trace flag 1222, and then view the SQL Server error log.

Correct Answer: C

\* `sys.dm_exec_sessions` Returns one row per authenticated session on SQL Server. `sys.dm_exec_sessions` is a server-scope view that shows information about all active user connections and internal tasks. Include the column: `transaction_isolation_level` smallint Transaction isolation level of the session. 0 = Unspecified 1 = ReadUncomitted 2 = ReadCommitted 3 = Repeatable 4 = Serializable 5 = Snapshot Is not nullable. Reference: `sys.dm_exec_sessions` (Transact-SQL)

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#### QUESTION 11

You create a stored procedure that retrieves all of the rows from a table named Table1.

You need to recommend a solution to ensure that all of the statements in the stored procedure can be executed if another transaction is modifying rows in Table1 simultaneously.

What should you recommend?

- A. Snapshot isolation
- B. A database snapshot
- C. Filegroups
- D. Indexes

Correct Answer: A



Once snapshot isolation is enabled, updated row versions for each transaction are maintained in tempdb. A unique transaction sequence number identifies each transaction, and these unique numbers are recorded for each row version. The transaction works with the most recent row versions having a sequence number before the sequence number of the transaction. Newer row versions created after the transaction has begun are ignored by the transaction. Reference: Transaction Isolation Levels

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## QUESTION 12

You need to recommend a solution to ensure that USP\_4 adheres to the security requirements. What should you include in the recommendation?

- A. Enable SQL Server Audit.
- B. Enable trace flags.
- C. Configure data manipulation language (DML) triggers.
- D. Enable C2 audit tracing.

Correct Answer: A

\*

Scenario: A stored procedure named USP\_4 calls stored procedures in the Sales, Customers, and Inventory databases. The nested stored procedures read tables from the Sales, Customers, and Inventory databases. USP\_4 uses an EXECUTE AS clause.

\*

Beginning in SQL Server 2008 Enterprise, you can set up automatic auditing by using SQL Server Audit.

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