



70-762^{Q&As}

Developing SQL Databases

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QUESTION 1

Note: this question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in the series.

Information and details provided in a question apply only to that question.

You are developing an application to track customer sales.

You need to create an object that meet the following requirements:

- Run managed code packaged in an assembly that was created in the Microsoft.NET Framework and uploaded in Microsoft SQL Server.

-

Run written a transaction and roll back if a future occurs.

-

Run when a table is created or modified.

What should you create?

- A. extended procedure
- B. CLR procedure
- C. user-defined procedure
- D. DML trigger
- E. scalar-valued function
- F. table-valued function

Correct Answer: B

The common language runtime (CLR) is the heart of the Microsoft .NET Framework and provides the execution environment for all .NET Framework code. Code that runs within the CLR is referred to as managed code. With the CLR hosted in Microsoft SQL Server (called CLR integration), you can author stored procedures, triggers, user-defined functions, user-defined types, and user-defined aggregates in managed code. Because managed code compiles to native code prior to execution, you can achieve significant performance increases in some scenarios.

QUESTION 2

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 questions 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 have a 3-TB database. The database server has 64 CPU cores.

You plan to migrate the database to Microsoft Azure SQL Database.

You need to select the service tier for the Azure SQL database. The solution must meet or exceed the current processing capacity.

Solution: You select the Premium service tier.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Premium service is required for 3 TB of storage. Single database DTU and storage limits

	Basic	Standard	Premium
Maximum storage size	2 GB	1 TB	4 TB
Maximum DTUs	5	3000	4000

References: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-service-tiers-dtu>

QUESTION 3

You have a view that includes an aggregate.

You must be able to change the values of columns in the view. The changes must be reflected in the tables that the view uses.

You need to ensure that you can update the view.

What should you create?

A. table-valued function

B. a schema-bound view

C. a partitioned view

D. a DML trigger

Correct Answer: D

QUESTION 4



Your company runs end-of-the-month accounting reports. While the reports run, other financial records are updated in the database.

Users report that the reports take longer than expected to run.

You need to reduce the amount of time it takes for the reports to run. The reports must show committed data only.

What should you do?

- A. Use the NOLOCK option.
- B. Execute the DBCC UPDATEUSAGE statement.
- C. Use the max worker threads option.
- D. Use a table-valued parameter.
- E. Set SET ALLOW_SNAPSHOT_ISOLATION to ON.
- F. Set SET XACT_ABORT to ON.
- G. Execute the ALTER TABLE T1 SET (LOCK_ESCALATION = AUTO); statement.
- H. Use the OUTPUT parameters.

Correct Answer: E

Snapshot isolation enhances concurrency for OLTP applications.

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. References: <https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/sql/snapshot-isolation-in-sql-server>

QUESTION 5

Note: This question is part of a series of questions that present the same scenario. Each question in this series contains a unique solution. Determine whether the solution meets the stated goals.

Your company has employees in different regions around the world. You need to create a database table that stores the following employee attendance information: Employee ID date and time employee checked in to work date and time employee checked out of work

Date and time information must be time zone aware and must not store fractional seconds.

Solution: You run the following Transact-SQL statement:

```
CREATE TABLE [dbo].[EmployeeAttendance] (  
    EmployeeID int NOT NULL,  
    DateCheckedIn datetimeoffset(0) NOT NULL,  
    DateCheckedOut datetimeoffset(0) NOT NULL)
```



Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

Datetimeoffset defines a date that is combined with a time of a day that has time zone awareness and is based on a 24-hour clock.

Syntax: datetimeoffset [(fractional seconds precision)]

For the use "datetimeoffset(0)", the Fractional seconds precision is 0, which is required here.

References: <https://msdn.microsoft.com/en-us/library/bb630289.aspx>

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