

# 70-762<sup>Q&As</sup>

Developing SQL Databases

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### QUESTION 1

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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### 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 database that is 130 GB and contains 500 million rows of data.

Granular transactions and mass batch data imports change the database frequently throughout the day. Microsoft SQL Server Reporting Services (SSRS) uses the database to generate various reports by using several filters.

You discover that some reports time out before they complete.

You need to reduce the likelihood that the reports will time out.

Solution: You partition the largest tables.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

### QUESTION 3

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. The Account table was created using the following Transact-SQL statement:

```
CREATE TABLE Account
(
    AccountNumber int NOT NULL,
    ProductCode char(2) NOT NULL,
    Status tinyint NOT NULL,
    OpenDate date NOT NULL,
    CloseDate date,
    Balance decimal(15,2),
    AvailableBalance decimal(15,2)
);
```

There are more than 1 billion records in the Account table. The Account Number column uniquely identifies each account. The ProductCode column has 100 different values. The values are evenly distributed in the table. Table statistics are refreshed and up to date.

You frequently run the following Transact-SQL SELECT statements:

```
SELECT ProductCode, SUM(Balance) AS TotalSUM FROM Account WHERE ProductCode
<> 'CD' GROUP BY ProductCode;
SELECT AccountNumber, Balance FROM Account WHERE ProductCode = 'CD'
```

You must avoid table scans when you run the queries. You need to create one or more indexes for the table. Solution: You run the following Transact-SQL statement:

```
CREATE CLUSTERED INDEX PK_Account On Account(AccountNumber);
CREATE NONCLUSTERED INDEX IX_Account_ProductCode On Account(ProductCode)
INCLUDE (Balance);
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

Create a clustered index on the AccountNumber column as it is unique. Create a nonclustered index that includes the ProductCode column.

References: <https://msdn.microsoft.com/en-us/library/ms190457.aspx>

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#### 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. Determine whether the solution meets the stated goals.

You need to identify the indexes that are not being used so that you can remove them from the database.

Solution: You run the sys.dm\_db\_index\_usage\_stats dynamic management view.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

References: <https://www.mssqltips.com/sqlservertutorial/256/discovering-unused-indexes/>

<https://www.sqlshack.com/how-to-identify-and-monitor-unused-indexes-in-sql-server/>

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#### 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 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 database that is 130 GB and contains 500 million rows of data.

Granular transactions and mass batch data imports change the database frequently throughout the day. Microsoft SQL Server Reporting Services (SSRS) uses the database to generate various reports by using several filters.

You discover that some reports time out before they complete.

You need to reduce the likelihood that the reports will time out.

Solution: You increase the number of log files for the database. You store the log files across multiple disks.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, create a file group for the indexes and a file group for the data files.

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