



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

Developing SQL Databases

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### QUESTION 1

You have a relational data warehouse that contains 1 TB of data.

You have a stored procedure named `usp_sp1` that generated an HTML fragment. The HTML fragment contains color and font style.

You need to return the HTML fragment.

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: G

A SQL Server stored procedure that you can call is one that returns one or more OUT parameters, which are parameters that the stored procedure uses to return data back to the calling application. References: <https://docs.microsoft.com/en-us/sql/connect/jdbc/using-a-stored-procedure-with-output-parameters?view=sql-server-2017>

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### QUESTION 2

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 independent of the other questions

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

You are a database developer for a company. The company has a server that has multiple physical disks. The disks are not part of a RAID array. The server hosts three Microsoft SQL Server instances. There are many SQL jobs that run during off-peak hours.

You observe that many deadlocks appear to be happening during specific times of the day.

You need to monitor the SQL environment and capture the information about the processes that are causing the deadlocks. Captured information must be viewable as the queries are running.

What should you do?

- A. A. Create a `sys.dm_os_waiting_tasks` query.



- B. Create a sys.dm\_exec\_sessions query.
- C. Create a PerformanceMonitor Data Collector Set.
- D. Create a sys.dm\_os\_memory\_objects query.
- E. Create a sp\_configure `max server memory` query.
- F. Create a SQL Profiler trace.
- G. Create a sys.dm\_os\_wait\_stats query.
- H. Create an Extended Event.

Correct Answer: F

To view deadlock information, the Database Engine provides monitoring tools in the form of two trace flags, and the deadlock graph event in SQL Server Profiler.

Trace Flag 1204 and Trace Flag 1222 When deadlocks occur, trace flag 1204 and trace flag 1222 return information that is captured in the SQL Server error log. Trace flag 1204 reports deadlock information formatted by each node involved in the deadlock. Trace flag 1222 formats deadlock information, first by processes and then by resources. It is possible to enable both trace flags to obtain two representations of the same deadlock event.

References: [https://technet.microsoft.com/en-us/library/ms178104\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/ms178104(v=sql.105).aspx)

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### QUESTION 3

#### DRAG DROP

You manage a database with tables named Invoice and InvoiceDetails. Each invoice may have multiple records.

Users update the InvoiceDetails table by using a .NET web application. The application retrieves records from both tables and updates the tables by running an inline update statement.

Users experience slow performance when updating records in the application. The solution must meet the following requirements:

Must use a stored procedure.

Must not use inline update statements

Must use a table-valued parameter.

Must call the stored procedure to update all records.

You need to optimize performance.

Which three actions should you perform in sequence? 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

- Create a stored procedure and use invDetails as a read-only input parameter.
- Create a stored procedure and use invDetails as the input parameter.
- Send invoice detail records to the stored procedure as a string value for the input parameter.
- Create a user-defined table type named invDetails like schema of InvoiceDetails table.
- Create an alias type from VARCHAR (MAX) Named invDetails.
- Send invoice detail records to the stored procedure as a ADO.NET table for the input parameter

### Answer Area

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Correct Answer:

### Actions

- 
- Create a stored procedure and use invDetails as the input parameter.
- Send invoice detail records to the stored procedure as a string value for the input parameter.
- 
- Create an alias type from VARCHAR (MAX) Named invDetails.
- 

### Answer Area

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Create a user-defined table type named invDetails like schema of InvoiceDetails table.

Create a stored procedure and use invDetails as a read-only input parameter.

Send invoice detail records to the stored procedure as a ADO.NET table for the input parameter

⏪  
⏩

⏩  
⏪

Explanation:

Box 1: Create a user-defined table type\')

Table-valued parameters are declared by using user-defined table types. You can use table-valued parameters to send multiple rows of data to a Transact-SQL statement or a routine, such as a stored procedure or function, without creating a

temporary table or many parameters.



Box 2: ..read-only input parameter.

Table-valued parameters must be passed as input READONLY parameters to Transact-SQL routines.

Box 3:

Example

The following example uses Transact-SQL and shows you how to create a table-valued parameter type, declare a variable to reference it, fill the parameter list, and then pass the values to a stored procedure.

```
USE AdventureWorks2012;
```

```
/* Create a table type. */
```

```
CREATE TYPE LocationTableType AS TABLE
```

```
( LocationName VARCHAR(50)
```

```
, CostRate INT );
```

```
GO
```

```
/* Create a procedure to receive data for the table-valued parameter. */ CREATE PROCEDURE dbo.  
usp_InsertProductionLocation @TVP LocationTableType READONLY Etc.
```

```
/* Declare a variable that references the type. */ DECLARE @LocationTVP AS LocationTableType;
```

```
/* Add data to the table variable. */
```

```
INSERT INTO @LocationTVP (LocationName, CostRate) SELECT Name, 0.00 FROM  
AdventureWorks2012.Person.StateProvince;
```

```
/* Pass the table variable data to a stored procedure. */ EXEC usp_InsertProductionLocation @LocationTVP; GO
```

References: <https://docs.microsoft.com/en-us/sql/relational-databases/tables/use-table-valued-parameters-database-engine?view=sql-server-2017>

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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 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 change the transaction log file size to expand dynamically in increments of 200 MB.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

## QUESTION 5

### Background

You have a database named HR1 that includes a table named Employee.

You have several read-only, historical reports that contain regularly changing totals. The reports use multiple queries to estimate payroll expenses. The queries run concurrently.

Users report that the payroll estimate reports do not always run. You must monitor the database to identify issues that prevent the reports from running.

You plan to deploy the application to a database server that supports other applications.

You must minimize the amount of storage that the database requires.

### Employee Table

You use the following Transact-SQL statements to create, configure, and populate the Employee table:

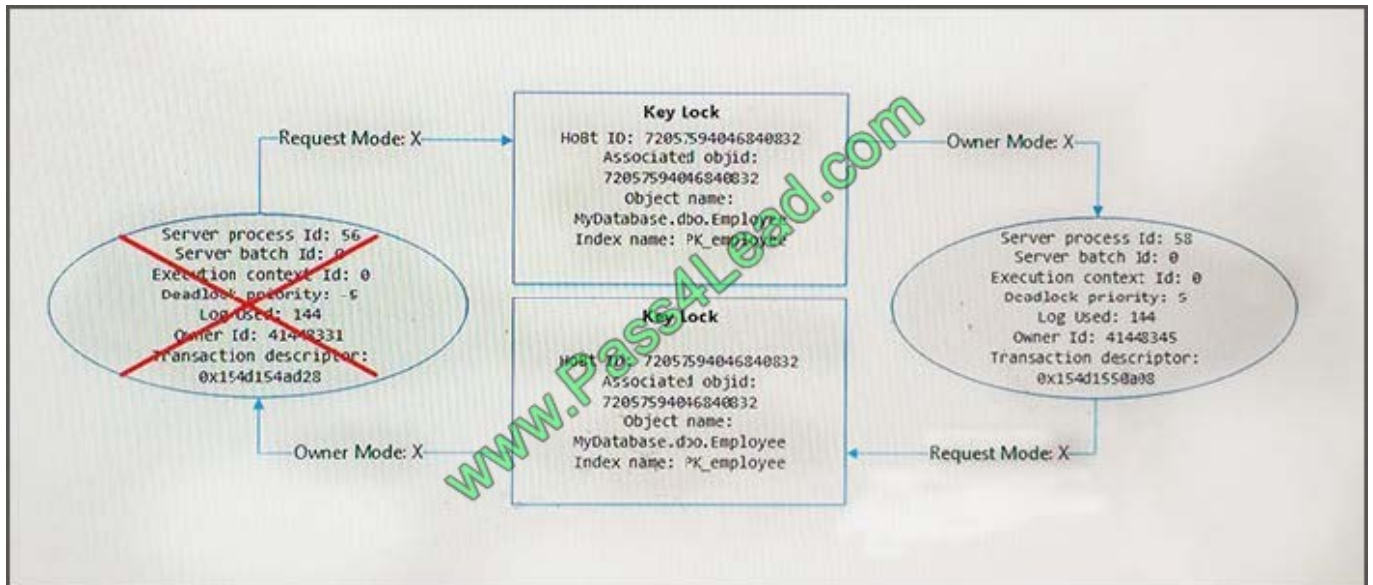
```
CREATE TABLE dbo.Employee
  (EmployeeId INT PRIMARY KEY,
  LastName varchar(50),
  FirstName varchar(50),
  DepartmentId int,
  HireDate datetime,
  TerminationDate datetime,
  SupervisorId int,
  CostCenterNumber int,
  EmployeeStatus int,
  EmployeePayRate int)
) GO
CREATE INDEX IX_1 on dbo.Employee (LastName, FirstName, DepartmentId) INCLUDE (HireDate)
CREATE INDEX IX_2 on dbo.Employee (LastName) INCLUDE (EmployeeId, FirstName, DepartmentId)
CREATE INDEX IX_3 on dbo.Employee (LastName, FirstName) INCLUDE (DepartmentId)
CREATE INDEX IX_4 on dbo.Employee (LastName, FirstName) INCLUDE (HireDate, DepartmentId)
GO
INSERT INTO Employee (EmployeeID, LastName, CostCenterNumber) VALUES(1001, 'Employee A', 3001001)
INSERT INTO Employee (EmployeeID, LastName, CostCenterNumber) VALUES(1002, 'Employee B', 3001001)
GO
```

### Application



You have an application that updates the Employees table. The application calls the following stored procedures simultaneously and asynchronously:

The application uses views to control access to data. Views must meet the following requirements:



Users must only be able to modify data in the Employee table by using the vwEmployee view. You must prevent users from viewing the view definition in catalog views.

You need to identify the view attribute to use when creating vwEmployee.

In the table below, identify the attributes that you must use.

NOTE: Make only one selection in each column.

Hot Area:

## Answer Area

View creation attribute	Update restriction	Restrict access to definition
SCHEMABINDING	<input type="checkbox"/>	<input type="checkbox"/>
VIEW_METADATA	<input type="checkbox"/>	<input type="checkbox"/>
ENCRYPTION	<input type="checkbox"/>	<input type="checkbox"/>
CHECK OPTION	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:



## Answer Area

View creation attribute	Update restriction	Restrict access to definition
SCHEMABINDING	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VIEW_METADATA	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ENCRYPTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CHECK OPTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>

References:

<https://msdn.microsoft.com/en-us/library/ms187956.aspx>

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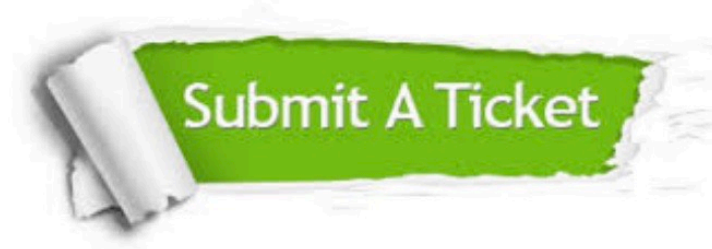
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