



70-764^{Q&As}

Administering a SQL Database Infrastructure

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**QUESTION 1**

You administer a Microsoft SQL Server 2016 database named Contoso on a server named Server01.

You need to track all SELECT statements issued in the Contoso database only by users in a role named Sales.

What should you create?

- A. An Alert
- B. A Resource Pool
- C. An Extended Event session
- D. A Server Audit Specification
- E. A SQL Profiler Trace
- F. A Database Audit Specification
- G. A Policy
- H. A Data Collector Set

Correct Answer: F

QUESTION 2

You are the database administrator of a Microsoft SQL Server instance. Developers are writing stored procedures to send emails using `sp_send_dbmail`. Database Mail is enabled.

You need to configure each account's profile security and meet the following requirements:

Account SMTP1_Account must only be usable by logins that have been given explicit permissions to use the SMTP1_profile.

Account SMTP2_Account must only be usable by logins who are a member of the [DatabaseMailUserRole] role in msdb.

In the table below, identify the profile type that must be used for each account.

NOTE: Make only one selection in each column.

Hot Area:



Answer Area

Profile type	SMTP1_Account	SMTP2_Account
Private Profile	<input type="radio"/>	<input type="radio"/>
Public Profile	<input type="radio"/>	<input type="radio"/>
Default Profile	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Profile type	SMTP1_Account	SMTP2_Account
Private Profile	<input checked="" type="radio"/>	<input type="radio"/>
Public Profile	<input type="radio"/>	<input type="radio"/>
Default Profile	<input type="radio"/>	<input checked="" type="radio"/>

SMTP1_Account1: Private Profile

When no profile_name is specified, sp_send_dbmail uses the default private profile for the current user. If the user does not have a default private profile, sp_send_dbmail uses the default public profile for the msdb database.

SMTP1_Account2: Default Profile

Execute permissions for sp_send_dbmail default to all members of the DatabaseMailUser database role in the msdb database.

References: <https://docs.microsoft.com/en-us/sql/relational-databases/system-stored-procedures/sp-send-dbmail-transact-sql>

QUESTION 3

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 question 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.

Your company is developing a new business intelligence application that will access data in a Microsoft Azure SQL Database instance. All objects in the instance have the same owner.

A new security principal named BI_User requires permission to run stored procedures in the database. The stored procedures read from and write to tables in the database. None of the stored procedures perform IDENTIFY_INSERT

operations or dynamic SQL commands.

The scope of permissions and authentication of BI_User should be limited to the database. When granting permissions, you should use the principle of least privilege.

You need to create the required security principals and grant the appropriate permissions.

Solution: You run the following Transact-SQL statement in the master database:

```
CREATE LOGIN BI_User WITH PASSWORD = 'Pa$$w ?d\\'
```

You run the following Transact-SQL statement in the business intelligence database:

```
CREATE USER BI_User FROM LOGIN BI_User
GRANT EXECUTE TO BI_User
EXEC sp_addrolemember 'db_datareader', 'BI_user'
EXEC sp_addrolemember 'db_datawriter', 'BI_user'
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

It is enough to grant EXECUTE permissions on the stored procedures for database roles you want to be able to access the data. We do not need to add roles to this user.

Note:

One method of creating multiple lines of defense around your database is to implement all data access using stored procedures or user-defined functions. You revoke or deny all permissions to underlying objects, such as tables, and grant

EXECUTE permissions on stored procedures. This effectively creates a security perimeter around your data and database objects.

Best Practices

Simply writing stored procedures isn't enough to adequately secure your application. You should also consider the following potential security holes.



Grant EXECUTE permissions on the stored procedures for database roles you want to be able to access the data.

Revoke or deny all permissions to the underlying tables for all roles and users in the database, including the public role. All users inherit permissions from public. Therefore denying permissions to public means that only owners and sysadmin

members have access; all other users will be unable to inherit permissions from membership in other roles.

Do not add users or roles to the sysadmin or db_owner roles. System administrators and database owners can access all database objects.

References: <https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/sql/managing-permissions-with-stored-procedures-in-sql-server>

QUESTION 4

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.

QUESTION 5

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

Start of repeated scenario.

You are a database administrator for a company that has on-premises Microsoft SQL Server environment. There are two domains in separate forests. There are no trust relationships between the domains. The environment hosts several customer databases, and each customer uses a dedicated instance running SQL Server 2016 Standard edition. The customer environments are shown in the following table.



Customer	Domain	Description
AdventureWorks Cycles	DomainB	The environment includes a database named Adventureworks that contains a single schema named ADVSchema . You must implement auditing for all objects in the ADVSchema schema. You must also implement auditing to record access to data that is considered sensitive by the company.
Tailspin Toys	DomainA	Tailspin Toys has a database named TSpinDB . Tailspin Toys requires a custom application that monitors TSpinDB and captures information over time about which database objects are accessed and how frequently they are accessed.
Contoso, Ltd.	DomainB	The environment has a database named ConDB and is also running SQL Server Reporting Services (SSRS).
Wingtip Toys	DomainA	<p>Wingtip Toys has a database named WingDB. All tables in the database have indexes. Users report system response time is slow during peak activity periods. You observe that the performance issues are related to locking.</p> <p>Wingtip Toys receives data updates from suppliers each week. You must implement a process for importing the data into WingDB. You must use minimal logging and minimize data loss during the import process.</p>
Wide World Importers	DomainB	The environment includes a database named WDWDB . Neither auditing nor statistics are configured for WDWDB . You must log any deletion of views and all database record update operations.

End of repeated scenario.

You need to monitor WingDB and gather information for troubleshooting issues.

Which two tools should you use? Each correct answer presents a complete solution.

- A. sys.dm_tran_locks
- B. sp_lock
- C. sys.dm_tran_active_snapshot_database_transactions
- D. Activity Monitor
- E. sp_monitor

Correct Answer: BD

The performance issues is related to locking.



B: sp_lock reports snapshot information about locks, including the object ID, index ID, type of lock, and type or resource to which the lock applies.

D: The Activity Monitor in SQL Server Management Studio is useful for ad hoc views of current activity and graphically displays information about:

Processes running on an instance of SQL Server.

Blocked processes.

Locks.

User activity.

Incorrect Answers:

E: System Monitor primarily tracks resource usage, such as the number of buffer manager page requests in use, enabling you to monitor server performance and activity using predefined objects and counters or user-defined counters to

monitor events. System Monitor (Performance Monitor in Microsoft Windows NT 4.0) collects counts and rates rather than data about the events (for example, memory usage, number of active transactions, number of blocked locks, or CPU

activity). You can set thresholds on specific counters to generate alerts that notify operator

References: <https://docs.microsoft.com/en-us/sql/relational-databases/performance/performance-monitoring-and-tuning-tools?view=sql-server-2017>

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