



70-764^{Q&As}

Administering a SQL Database Infrastructure

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**QUESTION 1**

You are a database administrator at Contoso, Ltd. You are preparing to move a global sales application from a development environment to a production environment. You have a database named Contoso that has a schema named Sales. All objects in the database have the same owner. The schema has a large number of views and stored procedures. None of the stored procedures perform IDENTITY_INSERT operations or dynamic SQL commands. You create all views by using the WITH SCHEMABINDING option.

All employees in the sales division are members of an Active Directory Domain Services (AD DS) security group named Contoso\Sales.

The following database objects are the only objects queried when a user from Contoso\Sales is using the application.

Views SalesReport SalesInvoice Stored procedures InvoiceExecute -performs read/write operations InvoiceSearch -performs read-only operations

When granting permissions to the database, you should use the principle of least privilege.

You create a new user-defined database role named SalesRole and add Contoso\Sales as a member of SalesRole.

You need to grant all employees in the Sales division permission to use the views and stored procedures.

Which two solutions will meet the requirements? Each correct answer presents a complete solution.

A. Grant the SELECT permission on the Sales schema to SalesRole. Grant the EXECUTE permission on the Sales.InvoiceExecute and Sales.InvoiceSearch to SalesRole.

B. Grant the SELECT permission on Sales.SalesReport and Sales.SalesInvoice to Contoso\Sales. Grant the EXECUTE permission on Sales.InvoiceExecute and Sales.InvoiceSearch to Contoso\Sales.

C. Grant the SELECT permission on Sales.SalesReport and Sales.SalesInvoice to SalesRole. Grant the EXECUTE permission on Sales.InvoiceExecute and Sales.InvoiceSearch to SalesRole.

D. Grant the SELECT permission on Sales.SalesReport and Sales.SalesInvoice to SalesRole. Grant the EXECUTE permission on Sales.InvoiceExecute and Sales.InvoiceSearch to SalesRole. Grant the SELECT permission on all tables referenced by Sales.SalesReport, Sales.SalesInvoice, and Sales.InvoiceSearch to SalesRole. Grant the SELECT, INSERT, UPDATE, and DELETE permissions on all tables referenced by Sales.InvoiceExecute to SalesRole.

Correct Answer: BC

Incorrect Answers:

A: There is no Sales Schema.

D: No need for DELETE permissions.

QUESTION 2

You are designing a high availability (HA) environment for a company that has three office locations. Details of the services deployed at each office are shown in the table below:



Location	SQL Server edition	Number of databases	Number of nodes
Seattle	Enterprise	200	4
New York	Standard	50	2
Atlanta	Enterprise	120	4

You need to maximize availability, minimize data loss, and minimize downtime in the event of a failure.

Which solution should you implement for each location? To answer, drag the appropriate solutions to the correct locations. Each solution may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Select and Place:

Solutions

- Always On Availability Groups SQL server
- SQL Server failover cluster instance
- Database mirroring
- SQL Server replication

Location

Seattle

New York

Atlanta

Solution

Solution

Solution

Solution

Answer Area

⬆️

⬇️

Correct Answer:

Solutions

- Always On Availability Groups SQL server
- SQL Server failover cluster instance
- Database mirroring
- SQL Server replication

Location

Seattle

New York

Atlanta

Solution

Always On Availability Groups SQL server

Database mirroring

Always On Availability Groups SQL server

Answer Area

⬆️

⬇️

The Always On availability groups feature is a high-availability and disaster-recovery solution that provides an enterprise-level alternative to database mirroring.

References: <https://docs.microsoft.com/en-us/sql/database-engine/availabilitygroups/windows/always-on-availability-groups-sql-server?view=sql-server-2017>

QUESTION 3



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

You need to collect data for a long period of time to troubleshoot wait statistics when querying Contoso.

You also need to ensure minimum impact to the server.

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

Correct Answer: C

QUESTION 4

You are a database administrator for an organization.

Members of the human resources department can add new employee records to the HR.Employees table. All members of the human resources department can add new employee records to the HR.Employees table. All members of the

human resources department are assigned the Human Resources database role.

You need to audit inserts to the table.

Which four transact-SQL statements should you use to develop the solution? To answer, move the appropriate Transact-SQL statements from the list of transact-SQL statements to the answer area and arrange them in the correct order.

Select and Place:



Transact-SQL statements

```
CREATE SERVER AUDIT HR_Employee_Audit
TO FILE (FILEPATH = 'D:\AuditLogs')

CREATE SERVER AUDIT SPECIFICATION Audit_Employee
FOR SERVER AUDIT HR_Employee_Audit
ADD (SELECT, INSERT ON HR.Employees BY HumanResources)

CREATE DATABASE AUDIT SPECIFICATION Audit_Employee
FOR SERVER AUDIT HR_Employee_Audit
ADD (SELECT, INSERT ON HR.Employees BY HumanResources)

USE MASTER;

USE DB1;

CREATE DATABASE AUDIT HR_Employee_Audit
TO FILE (FILEPATH = 'D:\AuditLogs')
```

Answer area

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Correct Answer:

Transact-SQL statements

```
CREATE SERVER AUDIT SPECIFICATION Audit_Employee
FOR SERVER AUDIT HR_Employee_Audit
ADD (SELECT, INSERT ON HR.Employees BY HumanResources)

CREATE DATABASE AUDIT HR_Employee_Audit
TO FILE (FILEPATH = 'D:\AuditLogs')
```

Answer area

```
USE MASTER;

CREATE SERVER AUDIT HR_Employee_Audit
TO FILE (FILEPATH = 'D:\AuditLogs')

USE DB1;

CREATE DATABASE AUDIT SPECIFICATION Audit_Employee
FOR SERVER AUDIT HR_Employee_Audit
ADD (SELECT, INSERT ON HR.Employees BY HumanResources)
```

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Box 1: Use MASTER;

Box 2: CREATE SERVER AUDIT ...

Only specify the file path.

Box 3: Use DB1;

Box 4: CREATE DATABASE AUDIT..

Specify the table etc.

References: <https://docs.microsoft.com/en-us/sql/t-sql/statements/create-database-audit-specification-transact-sql?view=sql-server-2017>

QUESTION 5

DRAG DROP



You have a Microsoft SQL Server audit named Audit1. Audit1 contains an audit specification named AuditSpec that audits failed logins.

You need to configure the audit to capture CREATE, ALTER, and DROP statements.

Which three statements should you execute in sequence? To answer, move the appropriate statements from the list to the answer area and arrange them in the correct order.

Select and Place:

Statements

ALTER SERVER AUDIT SPECIFICATION Audit1Spec FOR SERVER AUDIT Audit1 ADD (DATABASE_OBJECT_CHANGE_GROUP);

ALTER SERVER AUDIT Audit1 FOR SERVER AUDIT SPECIFICATION Audit1Spec ADD (DATABASE_OBJECT_CHANGE_GROUP);

ALTER SERVER AUDIT SPECIFICATION Audit1Spec WITH (STATE = OFF);

ALTER SERVER AUDIT Audit1 WITH (STATE = OFF);

ALTER SERVER AUDIT SPECIFICATION Audit1Spec WITH (STATE = ON);

ALTER SERVER AUDIT Audit1 WITH (STATE = ON);

Answer Area

⬅
⬆
⬆

Correct Answer:

Statements

ALTER SERVER AUDIT SPECIFICATION Audit1Spec FOR SERVER AUDIT Audit1 ADD (DATABASE_OBJECT_CHANGE_GROUP);

ALTER SERVER AUDIT Audit1 FOR SERVER AUDIT SPECIFICATION Audit1Spec ADD (DATABASE_OBJECT_CHANGE_GROUP);

ALTER SERVER AUDIT SPECIFICATION Audit1Spec WITH (STATE = OFF);

ALTER SERVER AUDIT Audit1 WITH (STATE = OFF);

ALTER SERVER AUDIT SPECIFICATION Audit1Spec WITH (STATE = ON);

ALTER SERVER AUDIT Audit1 WITH (STATE = ON);

Answer Area

ALTER SERVER AUDIT SPECIFICATION Audit1Spec FOR SERVER AUDIT Audit1 ADD (DATABASE_OBJECT_CHANGE_GROUP);

ALTER SERVER AUDIT SPECIFICATION Audit1Spec WITH (STATE = ON);

ALTER SERVER AUDIT Audit1 WITH (STATE = ON);

⬅
⬆
⬆

Explanation/Reference:



Answer Area

```
ALTER SERVER AUDIT SPECIFICATION Audit1Spec  
FOR SERVER AUDIT Audit1  
ADD (DATABASE_OBJECT_CHANGE_GROUP);
```

```
ALTER SERVER AUDIT SPECIFICATION Audit1Spec  
WITH (STATE = ON);
```

```
ALTER SERVER AUDIT Audit1  
WITH (STATE = ON);
```

Step 1: ALTER SERVER AUDIT SPECIFICATION Audit1Spec

FOR SERVER AUDIT Audit1

ADD(DATABASE_OBJECT_CHANGE_GROUP)

DATABASE_OBJECT_CHANGE_GROUP: This event is raised when a CREATE, ALTER, or DROP statement is executed on database objects, such as schemas. This event is raised whenever any database object is created, altered or

dropped. Note: This could lead to very large quantities of audit records.

If you enable this group in a server audit specification, it will track changes to schema objects in all of the databases of this instance of SQL Server

Step 2: ALTER SERVER AUDIT SPECIFICATION Audit1Spec WITH (STATE = ON);

When a server audit specification is created, it is in a disabled state.

WITH (STATE = { ON | OFF }) enables or disables the audit from collecting records for this audit specification.

Step 3: ALTER SERVER AUDIT Audit1 WITH (STATE = ON);

All audits are disabled when initially created.

Example: Enables the audit.

```
ALTER SERVER AUDIT HIPAA_Audit
```

```
WITH (STATE = ON);
```

```
GO
```

References:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/auditing/create-a-server-audit-and-server-audit-specification?view=sql-server-2017>



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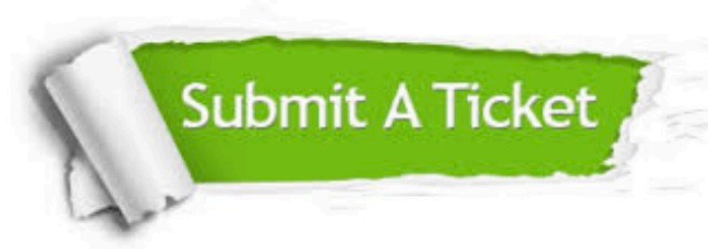
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