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**Exam** : **070-459**

**Title** : Transition Your MCITP:  
Database Administrator 2008  
or MCITP: Database Developer  
2008 to MCSE: Data Platform

**Vendor** : Microsoft

**Version** : DEMO

NO.1 You execute usp\_TestSpeakers.

You discover that usp\_SelectSpeakersByName uses inefficient execution plans.

You need to update usp\_SelectSpeakersByName to ensure that the most efficient execution plan is used.

What should you add at line 30 of Procedures.sql?

- A. OPTION (FCRCESCAN)
- B. OPTION (OPTIMIZE FOR UNKNOWN)
- C. OPTION (OPTIMIZE FOR (@LastName = 'Anderson'))
- D. OPTION (FORCESEEK)

**Answer:** B

Explanation:

References: <http://msdn.microsoft.com/en-us/library/ms181714.aspx>

NO.2 You are evaluating the table design.

You need to recommend a change to Tables.sql that reduces the amount of time it takes for usp\_AttendeesReport to execute.

What should you add at line 14 of Tables.sql?

- A. FullName nvarchar(100) NOT NULL CONSTRAINT DF\_FullName DEFAULT (dbo.CreateFullName (FirstName, LastName)),
- B. FullName AS (FirstName + ' ' + LastName),
- C. FullName nvarchar(100) NOT NULL DEFAULT (dbo.CreateFullName (FirstName, LastName)).
- D. FullName AS (FirstName + ' ' + LastName) PERSISTED,

**Answer:** D

Explanation:

<http://msdn.microsoft.com/en-us/library/ms188300.aspx> <http://msdn.microsoft.com/en-us/library/ms191250.aspx>

NO.3 You have two SQL Server instances named SQLDev and SQLProd that have access to various storage media.

You plan to synchronize SQLDev and SQLProd.

You need to recommend a solution that meets the following requirements:

- The database schemas must be synchronized from SQLDev to SQLProd.
- The database on SQLDev must be deployed to SQLProd by using a package.
- The package must support being deployed to SQL Azure.

What should you recommend?

More than one answer choice may achieve the goal. Select the BEST answer.

- A. a database snapshot
- B. change data capture
- C. a data-tier application
- D. SQL Server Integration Services (SSIS)
- E. SQL Data Sync

**Answer:** D

Explanation:

References: <http://msdn.microsoft.com/en-us/library/windowsazure/ee336279.aspx>

<http://msdn.microsoft.com/en-us/library/windowsazure/hh694043.aspx>

<http://msdn.microsoft.com/en-us/library/hh456371.aspx>

NO.4 You need to recommend a solution to meet the security requirements of the junior database administrators.

What should you include in the recommendation?

- A. a shared login
- B. a database role
- C. a credential
- D. a server role

**Answer:** D

NO.5 You execute the following code.

```
CREATE TABLE HumanResources.Employees
(
    EmployeeID int IDENTITY(1,1) PRIMARY KEY,
    ContactID int NOT NULL
        FOREIGN KEY REFERENCES Person.Contact(ContactID),
    JobTitle varchar(100)
);
GO

CREATE INDEX IX_Employees
ON HumanResources.Employee (JobTitle);
GO
```

After populating the Employees table with 10,000 rows, you execute the following query:

```
SELECT EmployeeID, JobTitle
FROM HumanResources.Employee
WHERE SUBSTRING(JobTitle,1,1) = 'C'
```

You need to reduce the amount of time it takes to execute the query. What should you do?

- A. Change SUBSTRING(JobTitle,1, 1) = 'C' to JobTitle LIKE 'C%'.
- B. Partition the table and use the JobTitle column for the partition scheme.
- C. Replace IX\_Employees with a clustered index.
- D. Change SUBSTRING (JobTitle, 1, 1) = 'C' to LEFT(JobTitle ,1) = 'C'.

**Answer:** A

Explanation:

References: <http://msdn.microsoft.com/en-us/library/ms179859.aspx>

<http://msdn.microsoft.com/en-us/library/ms187748.aspx>

NO.6 You need to monitor the health of your tables and indexes in order to implement the required index maintenance strategy.

What should you do?

- A. Query system DMVs to monitor avg\_chain\_length and max\_chain\_length. Create alerts to notify

you when these values converge.

B. Create a SQL Agent alert when the File Table: Avg time per file I/O request value is increasing.

C. Query system DMVs to monitor total\_bucket\_count. Create alerts to notify you when this value increases.

D. Query system DMVs to monitor total\_bucket\_count. Create alerts to notify you when this value decreases.

**Answer:** A

Explanation:

From scenario:

\*You need to anticipate when POSTransaction table will need index maintenance.

\*The index maintenance strategy for the UserActivity table must provide the optimal structure for both maintainability and query performance.

NO.7 You need to recommend a solution to allow application users to perform UPDATE operations on the database tables. The solution must meet the business requirements.

What should you recommend?

A. Create a user-defined database role and add users to the role.

B. Create stored procedures that use EXECUTE AS clauses.

C. Create functions that use EXECUTE AS clauses.

D. Create a Policy-Based Management Policy.

**Answer:** B

NO.8 You are creating a table named Orders.

You need to ensure that every time a new row is added to the Orders table, a table that is used for auditing is updated.

What should you use?

More than one answer choice may achieve the goal. Select the BEST answer.

A. a DEFAULT constraint

B. a Data Definition Language (DDL) trigger

C. a CHECK constraint

D. a FOREIGN KEY constraint

E. a data manipulation language (DML) trigger

**Answer:** E

Explanation:

References: <http://www.techrepublic.com/blog/programming-and-development/comparing-sql-serverconstraints-and-dmltriggers/402> <http://msdn.microsoft.com/en-us/library/ms178110.aspx>

NO.9 You need to recommend a disaster recovery strategy for the Inventory database.

What should you include in the recommendation?

A. Log shipping

B. Always on availability groups

C. SQL Server Failover Clustering

D. Peer-to-peer replication

**Answer: A**

Explanation:

References: <http://msdn.microsoft.com/en-us/library/cc645993.aspx>

<http://msdn.microsoft.com/en-us/library/ms187103.aspx>

<http://msdn.microsoft.com/en-us/library/ms190640.aspx>

NO.10 You have a SQL Server 2012 database named Database1. You execute the following code:

```
CREATE TABLE Sales
(
    ID int IDENTITY(1,1) NOT NULL PRIMARY KEY,
    OrderDate char(10) NOT NULL,
    Amount decimal
);
GO

CREATE INDEX IX_Sales_OrderDate
ON Sales(OrderDate)
INCLUDE (ID, Amount);
GO

CREATE PROC usp_Proc1(
    @date1 datetime,
    @date2 datetime
)
AS
SELECT ID, OrderDate, Amount
FROM Sales
WHERE CAST(OrderDate AS datetime)
    BETWEEN @date1 AND @date2
ORDER BY ID;
GO
```

You insert 3 million rows into Sales.

You need to reduce the amount of time it takes to execute Proc1.

What should you do?

- A. Productive varchar(11) 'ProductType/SID',
- B. ProductType varchar(11) '@ProductType',
- C. Productive varchar(11) 'ProductType/ID',
- D. ProductType varchar(11) 'ProductType1',

**Answer: D**

NO.11 You plan to design an application that temporarily stores data in a SQL Azure database.

You need to identify which types of database objects can be used to store data for the application.

The solution must ensure that the application can make changes to the schema of a temporary object during a session.

Which type of objects should you identify?

- A. Common table expressions (CTEs)
- B. Temporary tables
- C. Table variables
- D. Temporary stored procedures

**Answer:** B

Explanation:

References: <http://msdn.microsoft.com/en-us/library/ms175972.aspx>

<http://msdn.microsoft.com/en-us/library/ms189084.aspx> <http://msdn.microsoft.com/en-us/library/ms175010.aspx> <http://msdn.microsoft.com/en-us/library/bb510489.aspx>

<http://msdn.microsoft.com/en-us/library/ms187926.aspx>

<http://zacksfiasco.com/post/2010/01/21/SQL-Server-Temporary-Stored-Procedures.aspx>

<http://zacksfiasco.com/post/2010/01/21/SQL-Server-Temporary-Stored-Procedures.aspx>

NO.12 You use SQL Server 2012 to maintain the data used by the applications at your company. You plan to create a table named Table1 by using the following statement. (Line numbers are included for reference only.)

```
01 CREATE TABLE dbo.table1(  
02 ID int IDENTITY(1,1) NOT NULL,  
03  
04 Email varchar(100) NULL,  
05 CONSTRAINT PK_table1 PRIMARY KEY CLUSTERED(ID ASC)  
06 )
```

You need to ensure that Table1 contains a column named UserName.

The UserName column will:

- Store string values in any language.
- Accept a maximum of 200 characters.
- Be case-sensitive and accent-sensitive.

Which code segment should you add at line 03?

- A. UserName nvarchar(200) COLLATE Latin1\_General\_CI\_AI NOT NULL,
- B. UserName varchar(200) COLLATE Latin1\_General\_CI\_AI NOT NULL,
- C. UserName nvarchar(200) COLLATE Latin1\_General\_CS\_AS NOT NULL,
- D. UserName varchar(200) COLLATE Latin1\_General\_CS\_AS NOT NULL,
- E. UserName nvarchar(200) COLLATE Latin1\_General\_CI\_AS NOT NULL,
- F. UserName varchar(200) COLLATE Latin1\_General\_CI\_AS NOT NULL,

**Answer:** C

Explanation:

References: <http://msdn.microsoft.com/en-us/library/ms184391.aspx>

<http://msdn.microsoft.com/en-us/library/ms143726.aspx> <http://msdn.microsoft.com/en-us/library/ff848763.aspx>