Vendor: Microsoft

Exam Code:70-459

Exam Name: Transition Your MCITP: Database Administrator 2008 or MCITP: Database Developer 2008 to MCSE: Data Platform

Version: Demo

QUESTION 1

You have a table named ORDERS that contains 10,514,003 Orders. The ORDERS table has an IDENTITY (1,1) column named ORDERID. ORDERID is the UNIQUE CLUSTERED INDEX and PRIMARY KEY for the table. The first

ORDERID is 1. There are no missing ORDERIDs in the set.

Based on table usage patterns, you decide to use partitioning on this table based off of the ORDERID column.

You need to create the following partitions:

Partition	Values
1	Orders <= 7,500,000
2	Orders > 7,500,000 and <= 10,000,000
3	Orders > 10,000,000

Which code should you use to create the partition function?

A. CREATE PARTITION FUNCTION pfOrderIDRange (int) AS RANGE LEFT FOR VALUES (7500000,10000000)

B. CREATE PARTITION FUNCTION pfOrderIDRange (int) AS RANGE LEFT FOR VALUES (0,7500000,10000000)

C. CREATE PARTITION FUNCTION pfOrderIDRange (int) AS RANGE RIGHT FOR VALUES (7500000,10000000)

D. CREATE PARTITION FUNCTION pfOrderIDRange (int) AS RANGE RIGHT FOR VALUES (0,7500000,10000000)

A. B. C. D.

Correct Answer: A

Ref: http://msdn.microsoft.com/en-us/library/ms187802.aspx

QUESTION 2

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.

Correct Answer: A

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.

QUESTION 3

You need to provide referential integrity between the Sessions table and Speakers table.

Which code segment should you add at line 47 of Tables.sql?

A. ALTER TABLE dbo.Sessions ADD CONSTRAINT
   FK_Sessions_Speakers FOREIGN KEY (SessionID)
   REFERENCES dbo.Speakers (SpeakerID);

B. ALTER TABLE dbo.Sessions ADD CONSTRAINT
   FK_Sessions_Speakers FOREIGN KEY (SpeakerID)
   REFERENCES dbo.Speakers (SpeakerID);

C. ALTER TABLE dbo.Speakers ADD CONSTRAINT
   FK_Speakers_Sessions FOREIGN KEY (SpeakerID)
   REFERENCES dbo.Sessions (SessionID);

D. ALTER TABLE dbo.Speakers ADD CONSTRAINT
   FK_Speakers_Sessions FOREIGN KEY (SessionID)
   REFERENCES dbo.Sessions (SessionID);

A. B. C. D.

Correct Answer: B

http://msdn.microsoft.com/en-us/library/ms189049.aspx http://msdn.microsoft.com/en-us/library/ms179610.aspx
http://msdn.microsoft.com/en-us/library/ff878370.aspx

QUESTION 4

You need to create the usp_AssignUser stored procedure.

Develop the solution by selecting and arranging the required code blocks in the correct order.

You may not need all of the code blocks.

Select and Place:

Code Blocks

```
    IF @StatusID IS NULL
    RAISERROR (N'The transaction does
not exist.',16,1)
```

```
WITH
NATIVE_COMPILATION, SCHEMABINDING,
EXECUTE AS OWNER
```

```
CREATE PROCEDURE dbo.usp_AssignUser
@UserId int, @POSTransactionId int
```

```
WITH (TRANSACTION ISOLATION LEVEL =
READ COMMITTED, LANGUAGE
= N'us_english')
```

```
  UPDATE dbo.POSTransaction
SET UserId=@UserId
  WHERE POSTransactionId=@POSTransactio
nId
END
```

```
AS
BEGIN
```

```
DECLARE @StatusID int
  SELECT @StatusID=StatusId
  FROM dbo.POSTransaction
WHERE POSTransactionId=@POSTransactionI
d
```

```
    IF @StatusID IS NULL
    THROW 51000, N'The transaction
does not exist.', 1
```

```
WITH (TRANSACTION ISOLATION LEVEL =
REPEATABLE READ, LANGUAGE
= N'us_english')
```

```
AS
BEGIN ATOMIC
```

Answer Area

Correct Answer:

Code Blocks

```
        IF @StatusID IS NULL
        RAISERROR (N'The transaction does
not exist.',16,1)
```



```
WITH (TRANSACTION ISOLATION LEVEL =
REPEATABLE READ, LANGUAGE
= N'us_english')
```

```
AS
BEGIN ATOMIC
```

Answer Area

```
CREATE PROCEDURE dbo.usp_AssignUser
@UserId int, @POSTransactionId int
```

```
WITH
NATIVE_COMPILATION, SCHEMABINDING,
EXECUTE AS OWNER
```

```
AS
BEGIN
```

```
WITH (TRANSACTION ISOLATION LEVEL =
READ COMMITTED, LANGUAGE
= N'us_english')
```

```
  UPDATE dbo.POSTransaction
SET UserId=@UserId
  WHERE POSTransactionId=@POSTransactio
nId
END
```

```
DECLARE @StatusID int
  SELECT @StatusID=StatusId
  FROM dbo.POSTransaction
WHERE POSTransactionId=@POSTransactionI
d
```

```
        IF @StatusID IS NULL
        THROW 51000, N'The transaction
does not exist.', 1
```

Note:

* From scenario: The mobile application will need to meet the following requirements:

/Communicate with web services that assign a new user to a micropayment by using a stored procedure named usp_AssignUser.

* Example:

create procedure dbo.OrderInsert(@OrdNo integer, @CustCode nvarchar(5)) with native_compilation, schemabinding,

execute as owner as begin atomic with

(transaction isolation level = snapshot,

language = N\\'English\\')

declare @OrdDate datetime = getdate();

insert into dbo.Ord (OrdNo, CustCode, OrdDate) values (@OrdNo, @CustCode, @OrdDate); end go

* Natively compiled stored procedures are Transact-SQL stored procedures compiled to native code that access memory-optimized tables. Natively compiled stored procedures allow for efficient execution of the queries and business logic in

the stored procedure.

QUESTION 5

You are the new database administrator for a SQL Server 2014 instance.

You conduct an assessment on the instance and determine that the auto create statistics setting on the database named DB1 has been turned off. You see no evidence that any maintenance has been occurring.

You want to set up monitoring to see if query performance is being affected.

You need to set up a monitoring process that will capture any cases where statistics could have been useful if they existed.

What should you do?

A. Create a SQL Server Agent job to execute DBCC SHOWSTATISTICS on each of the primary key columns in the database.

B. Use the missing_column_statistics extended event.

C. Query the sys.statistics system view to see all cases where the statistics were last needed.

D. Write a query using the sys.dm_db_missing_index_group_stats DMV Joining to sys.indexes, filtering on is_hypothetical.

Correct Answer: B

The Missing Column Statistics event class indicates that column statistics that could have been useful for the optimizer are not available.

By monitoring the Missing Column Statistics event class, you can determine if there are statistics missing for a column used by a query. This can cause the optimizer to choose a less efficient query plan than expected.

Missing Column Statistics Event Class

QUESTION 6

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. Run the following: ALTER TABLE Sales ALTER COLUMN OrderDate datetime NOT NULL;

B. Change the WHERE clause to the following: WHERE OrderDate BETWEEN CAST(@date1,char(10)) AND CAST(@date2,char(10))

C. Remove the ORDER BY clause from the stored procedure.

D. Run the following: DROP INDEX IX_Sales_OrderDate; GO CREATE INDEX IX_Sales_OrderDate ON Sales(OrderDate); GO

Correct Answer: D

Reference:

http://www.c-sharpcorner.com/UploadFile/skumaar_mca/good-practices-to-write-the-stored- proceduresin-sqlserver/

QUESTION 7

You plan to deploy SQL Server 2012.

Your company identifies the following monitoring requirements for the database:

An e-mail message must be sent if the SQL Server Authentication mode changes. An e-mail message must be sent if CPU utilization exceeds 90 percent.

You need to identify which feature meets each monitoring requirement.

Which features should you identify? To answer, drag the appropriate feature to the correct monitoring requirement in the answer area.

Select and Place:

Features		Answer Area	
Policy-Based Management		An e-mail message must be sent if the SQL Server Authentication mode changes.	Feature
a SQL Server Agent alert		An e-mail message must be sent if CPU utilization exceeds 90 percent.	Feature
SQL Server Integration Services (SSIS)			
trace flags			

Correct Answer:

Features	Answer Area	
	An e-mail message must be sent if the SQL Server Authentication mode changes.	Policy-Based Management
	An e-mail message must be sent if CPU utilization exceeds 90 percent.	a SQL Server Agent alert
SQL Server Integration Services (SSIS)		
trace flags		

http://msdn.microsoft.com/en-us/library/bb510667.aspx http://msdn.microsoft.com/en-us/library/ms180982.aspx
http://msdn.microsoft.com/en-us/library/ms141026.aspx http://msdn.microsoft.com/en-us/library/ms188396.aspx

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QUESTION 8

You need to recommend an isolation level for usp_UpdateOrderDetails. Which isolation level should recommend?

A. repeatable read

B. serializable

C. read uncommitted

D. read committed

Correct Answer: A

References: http://msdn.microsoft.com/en-us/library/ms378149.aspx http://msdn.microsoft.com/en-us/library/ms173763.aspx

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QUESTION 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

Correct Answer: A

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

QUESTION 10

You have two existing tables, one named COUNTRY and the other named STATES. The tables are defined as follows:

```
CREATE TABLE COUNTRY
(
Country_Abbr CHAR(3) PRIMARY KEY CLUSTERED,
Country_Description VARCHAR(30) Not Null
)
CREATE TABLE STATES
(
State_Abbr CHAR(2) PRIMARY KEY CLUSTERED,
State_Description VARCHAR(30) Not Null,
Country_Abbr CHAR(3) Not Null
)
```

You need to set up a rule that every STATE.Country_Abbr must match an existing record in the COUNTRY table.

Develop the solution by selecting and arranging the required code blocks in the correct order.

You may not need all of the code blocks.

Select and Place:

Code Blocks

REFERENCES STATES (Country_Abbr)

REFERENCES COUNTRY (Country_Abbr)

ON STATES

FOREIGN KEY (Country_Abbr)

ON COUNTRY

ADD CONSTRAINT FK_StateCountry

ON COUNTRY_ABBR

ALTER TABLE COUNTRY

ADD FOREIGN KEY FK_StateCountry

ALTER TABLE STATES

Answer Area

Correct Answer:

Code Blocks

REFERENCES STATES (Country_Abbr)
ON STATES
ON COUNTRY
ON COUNTRY_ABBR
ALTER TABLE COUNTRY
ADD FOREIGN KEY FK_StateCountry

Answer Area

ALTER TABLE STATES
ADD CONSTRAINT FK_StateCountry
FOREIGN KEY (Country_Abbr)
REFERENCES COUNTRY (Country_Abbr)

Note:

To allow naming of a FOREIGN KEY constraint, and for defining a FOREIGN KEY constraint on multiple columns, use the following SQL syntax:

MySQL / SQL Server / Oracle / MS Access:

ALTER TABLE Orders

ADD CONSTRAINT fk_PerOrders

FOREIGN KEY (P_Id)

REFERENCES Persons(P_Id)

QUESTION 11

You need to add a new column named Confirmed to the Attendees table. The solution must meet the following requirements:

Have a default value of false.

Minimize the amount of disk space used.

Which code block should you use?

A. ALTER TABLE Attendees ADD Confirmed bit DEFAULT 0;

B. ALTER TABLE Attendees ADD Confirmed char(1) DEFAULT \\'0\\';

C. ALTER TABLE Attendees ADD Confirmed char(1) DEFAULT \\'1\\';

D. ALTER TABLE Attendees ADD Confirmed bit DEFAULT 1;

Correct Answer: A

Reference: http://msdn.microsoft.com/en-us/library/ms177603.aspx

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QUESTION 12

You are creating a table to support an application that will cache data outside of SQL Server.

The application will detect whether cached values were changed before it updates the values.

You need to create the table, and then verify that you can insert a row into the table.

Which code segment should you use?

```
A.  CREATE TABLE Table1 (
        ID int IDENTITY(1,1),
        Name varchar(100),
        Version uniqueidentifier DEFAULT NEWID())
    INSERT INTO Table1 (Name, Version)
    VALUES ('Smith, Ben')
B.  CREATE TABLE Table1 (
        ID int IDENTITY(1,1),
        Name varchar(100),
        Version rowversion)
    INSERT INTO Table1 (Name, Version)
C.  CREATE TABLE Table1 (
        ID int IDENTITY(1,1),
        Name varchar(100),
        Version uniqueidentifier DEFAULT NEWID())
    INSERT INTO Table1 (Name, Version)
    VALUES ('Smith, Ben', NEWID())
D.  CREATE TABLE Table1 (
        ID int IDENTITY(1,1),
        Name varchar(100),
        Version rowversion)
    INSERT INTO Table1 (Name)
    VALUES ('Smith, Ben')
```

Correct Answer: D

References: http://msdn.microsoft.com/en-us/library/ms182776.aspx http://msdn.microsoft.com/en-us/library/ms187942.aspx http://msdn.microsoft.com/en-us/library/ms190348.aspx

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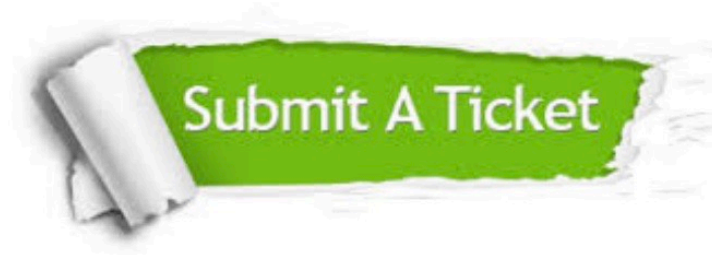
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