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QUESTION 1

You need to prepare the database to use the .NET Framework tax component.

Which code segments should you execute? (Each correct answer presents part of the solution. Choose all that apply.)

```
A.  CREATE ASSEMBLY TaxCalc FROM 'c:\temp\TreyTax.DLL'

B.  CREATE ASSEMBLY TaxCalc FROM 'C:\temp\Amortize.cs';

C.  CREATE FUNCTION Accounting.Amortize(
        @total decimal(8,2),@period int
        )RETURNS decimal(8,2)
    AS EXTERNAL NAME TaxCalc.TreyResearch.Amortize;

D.  EXEC SP_CONFIGURE 'clr enabled', '1';

E.  EXEC sp_recompile @objname = 'TaxCalc'

F.  RECONFIGURE;
```

A. B. C. D. E. F.

Correct Answer: ACDE

QUESTION 2

You have a SQL Server 2012 database named DB1. You have a backup device named Device1.

You discover that the log file for the database is full.

You need to ensure that DB1 can complete transactions. The solution must not affect the chain of log sequence numbers (LSNs).

Which code segment should you execute?

A. BACKUP LOG DB1 TO Device1 WITH TRUNCATE_ONLY

B. BACKUP LOG DB1 TO Device1 WITH COPY_ONLY

C. BACKUP LOG DB1 TO Device1 WITH NORECOVERY

D. BACKUP LOG DB1 TO Device1

Correct Answer: D

References: http://msdn.microsoft.com/en-us/library/ms179478.aspx http://msdn.microsoft.com/en-us/library/ms190925.aspx

QUESTION 3

You need to modify the stored procedure usp.LookupConcurrentUsers.

What should you do?

A. Add a clustered index to the summary table.

B. Add a nonclustered index to the summary table.

C. Add a clustered columnstore index to the summary table.

D. Use a table variable instead of the summary table.

Correct Answer: A

Scenario: Query the current open micropayments for users who own multiple micropayments by using a stored procedure named usp.LookupConcurrentUsers

QUESTION 4

You are designing a database for a university.

The database will contain two tables named Classes and StudentGrades that have the following specifications:

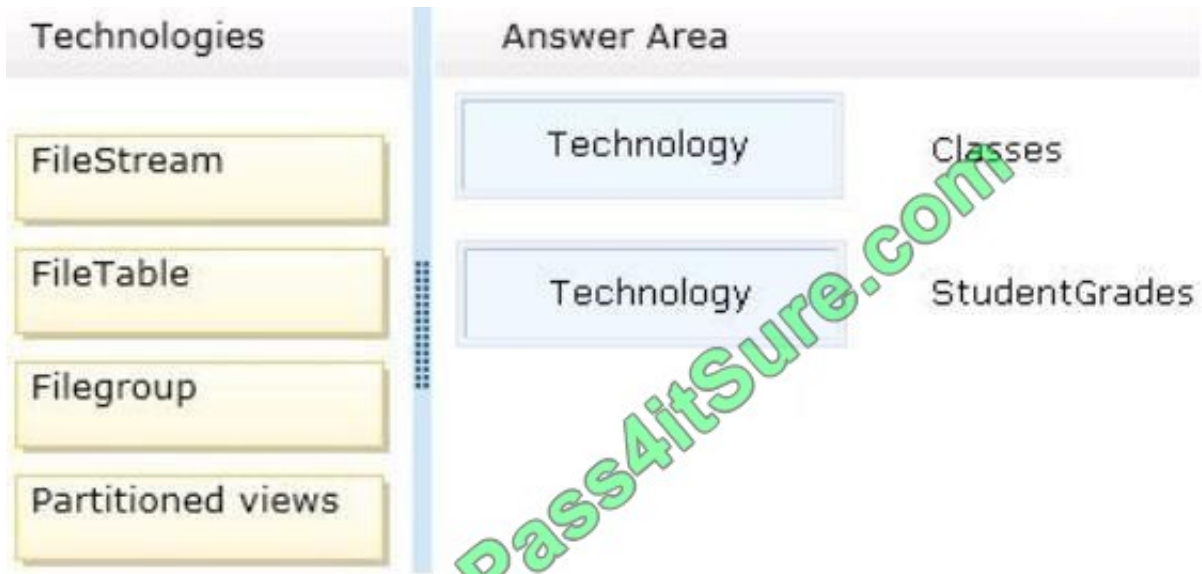Classes will store brochures in the XPS format.

The brochures must be structured in folders and must be accessible by using UNC paths.

StudentGrades must be backed up on a separate schedule than the rest of the database.

You need to identify which SQL Server technology meets the specifications of each table.
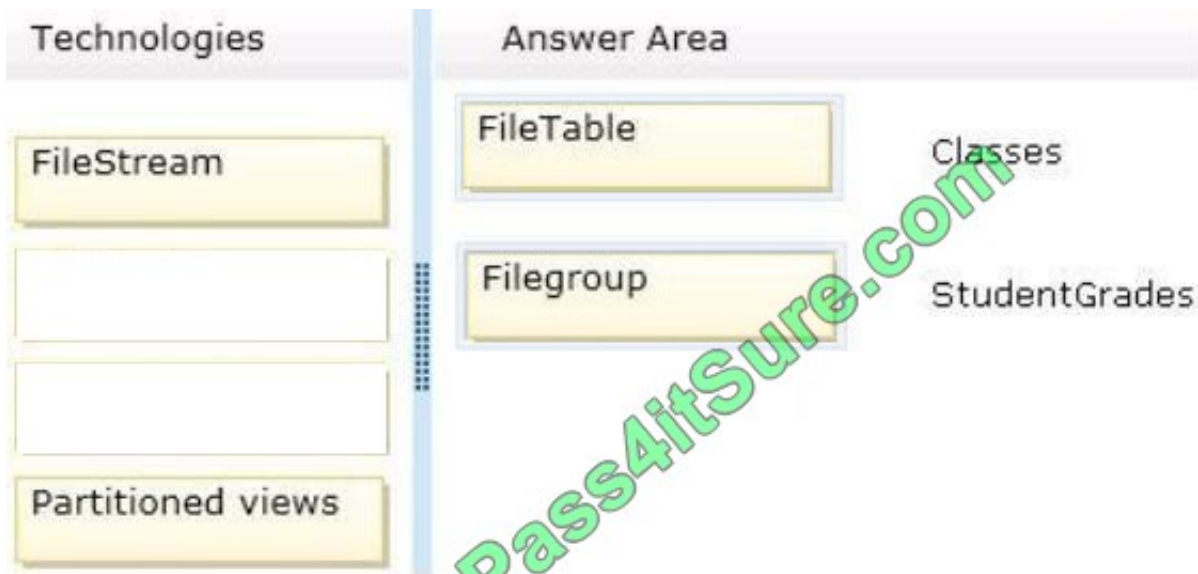
Which technologies should you identify? To answer, drag the appropriate technology to the correct table in the answer area.

Select and Place:

Technologies	Answer Area	
FileStream	Technology	Classes
FileTable	Technology	StudentGrades
Filegroup		
Partitioned views		

Select and Place:

Correct Answer:

Technologies	Answer Area	
FileStream	FileTable	Classes
	Filegroup	StudentGrades
Partitioned views		

http://msdn.microsoft.com/en-us/library/gg471497.aspx http://msdn.microsoft.com/en-us/library/ff929144.aspx
http://msdn.microsoft.com/en-us/library/ms189563.aspx http://msdn.microsoft.com/en-us/library/ms190174.aspx
http://msdn.microsoft.com/en-us/library/ms187956.aspx

QUESTION 5

You use SQL Server 2014. You create a table within a database by using the following DDL:

```
CREATE TABLE OrderData
(
OrderID INT IDENTITY(1,1) Primary Key Clustered,
OrderDate SMALLDATETIME NOT NULL DEFAULT getdate(),
CustomerID INT,
IsTaxable INT,
SubTotal SmallMoney DEFAULT (0),
TaxAmount AS (Case IsTaxable when 1 then SubTotal * .0875 else NULL END),
Freight SmallMoney,
OrderReturnedDate DATE,
OrderReturnedCustReason TEXT,
OrderReturnedEval Varchar(MAX)
)
```

The following table illustrates a representative sample of data:

OrderID	OrderDate	CustomerID	IsTaxable	SubTotal	TaxAmount	Freight
1	11/13/2013 11:22	58465	NULL	$ 25.99	NULL	$ 5.40
2	11/15/2013 9:34	12588	NULL	$ 12.00	NULL	NULL
3	12/1/2013 14:34	85477	NULL	$ 23.99	NULL	$ 4.85
4	12/17/2013 4:31	58742	NULL	$ 19.00	NULL	NULL
5	1/3/2014 8:22	12477	NULL	$ 13.50	NULL	$ 5.40
6	1/5/2014 18:39	63214	NULL	$ 5.69	NULL	NULL
7	1/15/2014 14:22	85471	NULL	$ 18.99	NULL	$ 7.85
8	1/19/2014 3:20	85413	NULL	$ 65.77	NULL	NULL
9	1/22/2014 13:44	12588	NULL	$ 22.38	NULL	$ 7.35
10	1/28/2014 10:14	85471	1	$ 24.99	$ 2.19	$ 5.40

The system is expected to handle 50 million orders a month over the next five years.

You have been instructed by your Team Lead to follow best practices for storage and performance in the utilization of SPARSE columns.

Which columns should you designate as SPARSE? To answer, mark each column as SPARSE or NOT SPARSE in the answer area.

Hot Area:

Answer Area

Column Names	Sparse	Not Sparse
OrderID	○	
OrderDate	○	○
CustomerID	○	○
IsTaxable	○	○
SubTotal	○	○
TaxAmount	○	○
Freight	○	○

Correct Answer:

Answer Area

Column Names	Sparse	Not Sparse
OrderID	○	◉
OrderDate	○	◉
CustomerID	○	◉
IsTaxable	◉	○
SubTotal	○	◉
TaxAmount	◉	○
Freight	◉	○

Note: Sparse columns are ordinary columns that have an optimized storage for null values. Sparse columns reduce the space requirements for null values at the cost of more overhead to retrieve nonnull values. Consider using sparse columns when the space saved is at least 20 percent to 40 percent. Use Sparse Columns

QUESTION 6

You execute usp_SelectEmployeesByName multiple times, passing strings of varying lengths to @LastName.

You discover that usp_SelectEmployeesByName uses inefficient execution plans.

You need to update usp_SelectEmployeesByName to ensure that the most efficient execution plan is used.

What should you add at line 31 of StoredProcedures.sql?

A. OPTION (ROBUST plan)

B. OPTION (OPTIMIZE FOR UNKNOWN)

C. OPTION (KEEP PLAN)

D. OPTION (KEEPFIXED PLAN)

Correct Answer: B

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

QUESTION 7

You plan to install two SQL Server 2012 environments named Environmentl and Environment2. Your company identifies the following availability requirements for each environment:

Environment1 must have mirroring with automatic failover implemented.

Environment2 must have AlwaysOn with automatic failover implemented. You need to identify the minimum number of SQL Server 2012 servers that must be deployed to each environment to ensure that all data remains available if a physical server fails. How many servers should you identify? To answer, drag the appropriate number to the correct environment in the answer area.

Select and Place:

Number of Servers	Answer Area	
2 3 4	Environment1	#
	Environment2	#

Correct Answer:

Number of Servers	Answer Area

http://msdn.microsoft.com/en-us/library/ms189852.aspx http://msdn.microsoft.com/en-us/library/hh510230.aspx

QUESTION 8

You are designing your maintenance plan.

Which command should you use only during the monthly maintenance window?

A. DBCC INDEXDEFRAG (ProdDB, SalesOrderDetail, SODIndex)

B. ALTER INDEX SODIndex ON SalesOrderDetail REORGANIZE

C. ALTER INDEX SODIndex ON SalesOrderDetail REBUILD

D. ALTER INDEX SODIndex ON SalesOrderDetail REBUILD WITH (ONLINE * ON)

Correct Answer: D

*

Scenario: Database Issues

The current database does not perform well. Additionally, a recent disk problem caused the system to go down, resulting in lost sales revenue. In reviewing the current system, you found that there are no automated maintenance procedures.

The database is severely fragmented, and everyone has read and write access.

*

After the degree of fragmentation is known, use the following table to determine the best method to correct the fragmentation.

avg_fragmentation_in_percent value

/ > 5% and

then use

ALTER INDEX REORGANIZE

/ > 30%

then use

ALTER INDEX REBUILD WITH (ONLINE = ON)

ALTER INDEX (Transact-SQL)

QUESTION 9

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 10

You have a database named database1.

Database developers report that there are many deadlocks.

You need to implement a solution to monitor the deadlocks. The solution must meet the following requirements:

Support real-time monitoring.

Be enabled and disabled easily.

Support querying of the monitored data.

What should you implement? More than one answer choice may achieve the goal. Select the BEST answer.

A.

a SQL Server Profiler template

B.

an Extended Events session

C.

log errors by using trace flag 1204

D.

log errors by using trace flag 1222

Correct Answer: B

References: http://www.sqlservercentral.com/blogs/james-sql-footprint/2012/08/12/monitor-deadlock-in-sql- 2012/

http://blogs.technet.com/b/mspfe/archive/2012/06/28/how_2d00_to_2d00_monitor_2d00_deadlocks_2d00_in_2d00_sql_2d00_server.aspx

QUESTION 11

You need to add a new column named Confirmed to the Employees table. The solution must meet the following requirements: Have a default value of TRUE.

A. ALTER TABLE Employees ADD Confirmed bit DEFAULT 0;

B. ALTER TABLE Employees ADD Confirmed char(1) DEFAULT "1";

C. ALTER TABLE Employees ADD Confirmed char(1) DEFAULT \\'0\\\';

D. ALTER TABLE Employees ADD Confirmed bit DEFAULT 1;

Correct Answer: D

References: http://msdn.microsoft.com/en-us/library/ms177603.aspx http://msdn.microsoft.com/en-us/library/ms176089.aspx

QUESTION 12

You need to modify InsertInvoice to comply with the application requirements. Which code segment should you execute?

A.
```
OPEN CERT1;
ALTER PROCEDURE Accounting.usp_AuthPayment
    WITH ENCRYPTION;
CLOSE CERT1;
```

B.
```
ADD SIGNATURE TO Accounting.usp_AuthPayment
    BY CERTIFICATE CERT2;
```

C.
```
OPEN CERT2;
ALTER PROCEDURE Accounting.usp_AuthPayment
    WITH ENCRYPTION;
CLOSE CERT2;
```

D.
```
ADD SIGNATURE TO Accounting.usp_AuthPayment
    BY CERTIFICATE CERT1;
```

A. B. C. D.

Correct Answer: B

References: http://msdn.microsoft.com/en-us/library/bb669102.aspx

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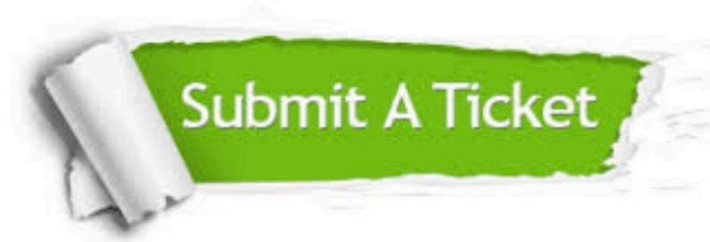
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