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Vendor:Microsoft

Exam Code:70-461

Exam Name:Querying Microsoft SQL Server
2012/2014

Version:Demo

QUESTION 1

You use Microsoft SQL Server 2012 to develop a database application. Your application sends data to an NVARCHAR (MAX) variable named @var.

You need to write a Transact-SQL statement that will find out the success of a cast to a decimal (36,9).

Which code segment should you use?

- A. BEGIN TRY
SELECT
 convert (decimal(36,9), @var) as Value,
 'True' As BadCast
END TRY
BEGIN CATCH
SELECT
 convert (decimal(36,9), @var) as Value,
 'False' As BadCast
END CATCH
- B. TRY(
 SELECT convert (decimal(36,9), @var)
 SELECT 'True' As BadCast
)
CATCH(
 SELECT 'False' As BadCast
)
- C. SELECT
 CASE
 WHEN convert (decimal(36,9), @var) IS NULL
 THEN 'True'
 ELSE 'False'
 END
As BadCast
- D. SELECT
 IIF(TRY_PARSE(@var AS decimal(36,9)) IS NULL,
 'True',
 'False'
)
AS BadCast

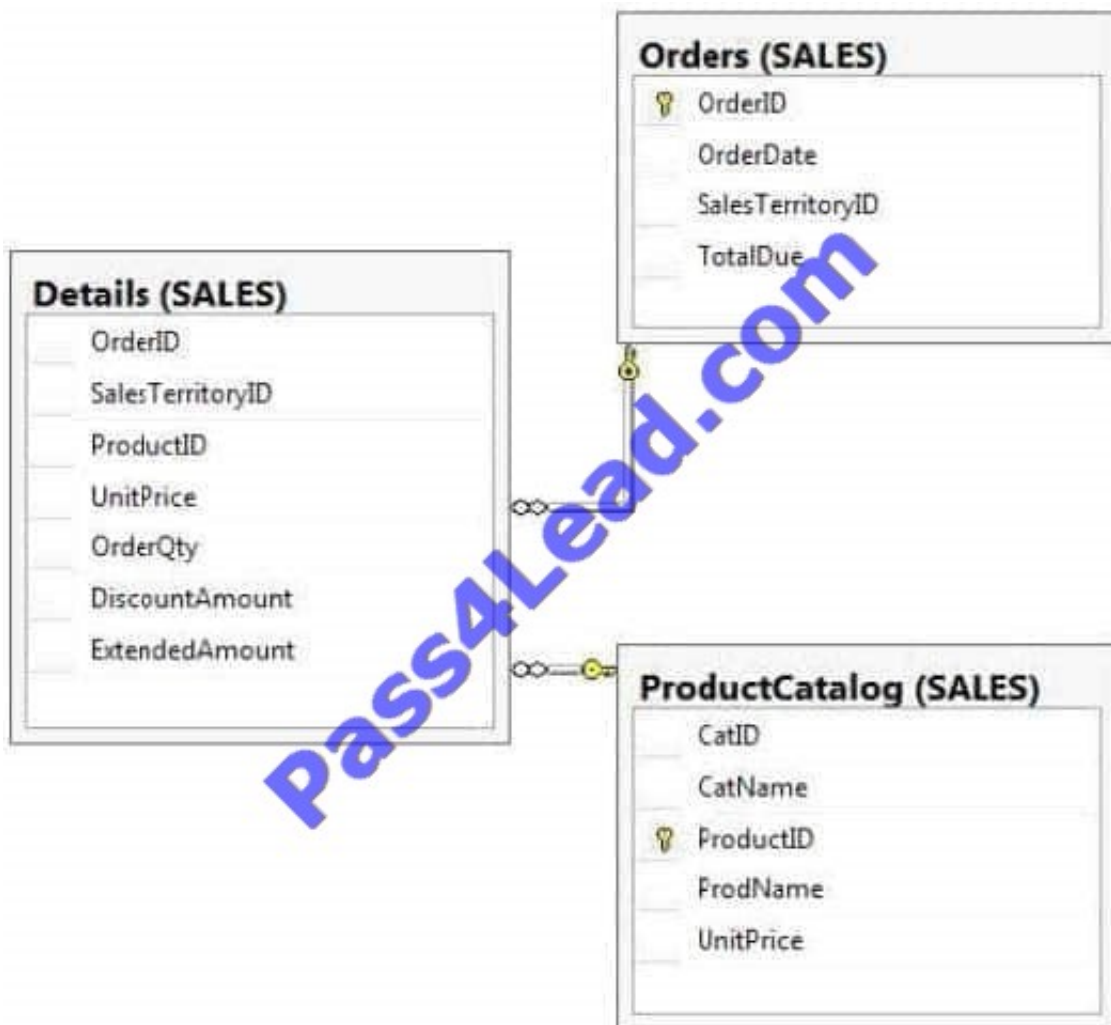
- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: D

<http://msdn.microsoft.com/en-us/library/hh213126.aspx>

QUESTION 2

You have a database that contains the tables as shown in the exhibit. (Click the Exhibit button.)



You need to create a query that returns a list of products from Sales.ProductCatalog. The solution must meet the following requirements:

UnitPrice must be returned in descending order.

The query must use two-part names to reference the table.

The query must use the RANK function to calculate the results.

The query must return the ranking of rows in a column named PriceRank.

The list must display the columns in the order that they are defined in the table.

PriceRank must appear last.

Which code segment should you use?

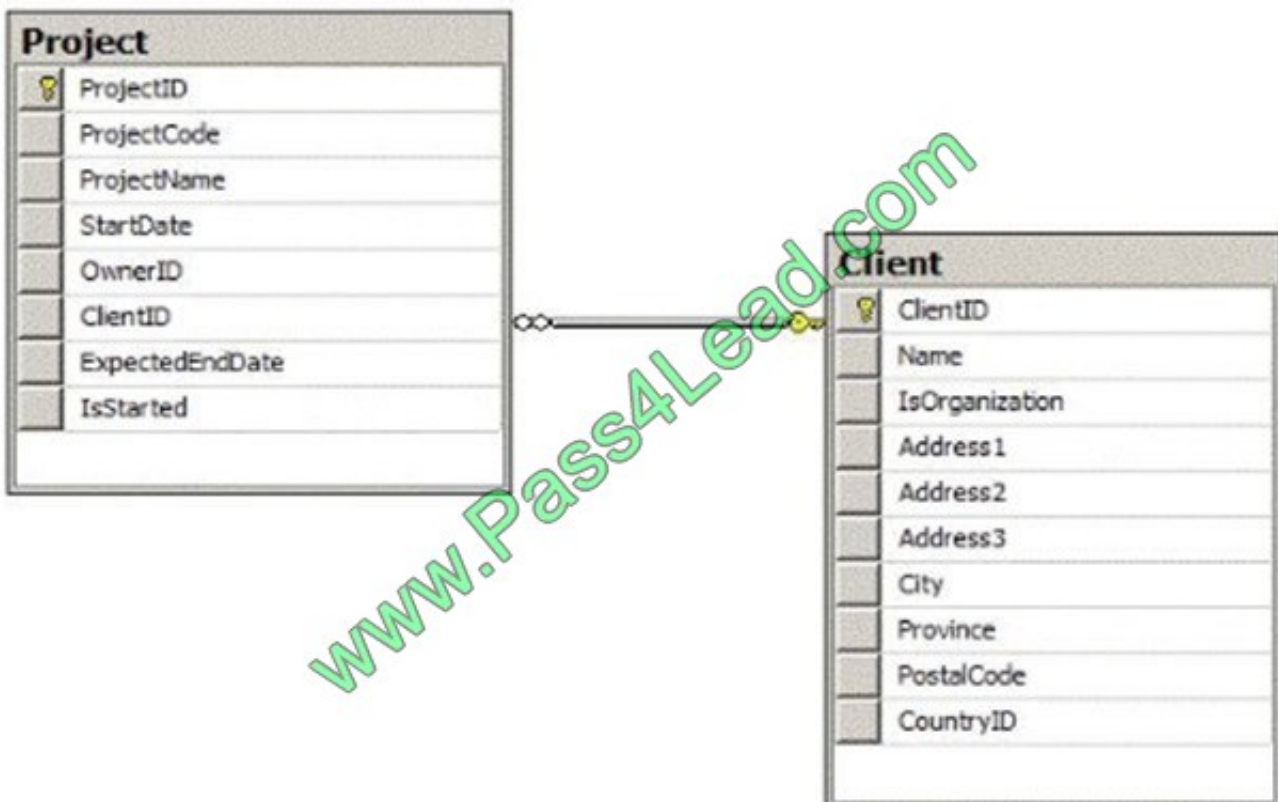
To answer, type the correct code in the answer area.

Correct Answer: Please review the explanation part for this answer

```
SELECT ProductCatalog.CatID, ProductCatalog.CatName, ProductCatalog.ProductID, ProductCatalog.ProdName, ProductCatalog.UnitPrice, RANK() OVER (ORDER BY ProductCatalog.UnitPrice DESC) AS PriceRank FROM Sales.ProductCatalog ORDER BY ProductCatalog.UnitPrice DESC
```

QUESTION 3

You develop a Microsoft SQL Server database that contains tables as shown in the exhibit. (Click the Exhibit button.)



You need to retrieve a list of clients for whom there is no corresponding information in the Projects table. Which Transact-SQL statements should you run?

- A. `SELECT DISTINCT C.[ClientID]
FROM Project P
RIGHT OUTER JOIN Client C ON P.[ClientID] = C.[ClientID]
WHERE P.[ClientID] IS NULL`
- B. `SELECT DISTINCT C.[ClientID]
FROM Project P
LEFT OUTER JOIN Client C ON P.[ClientID] = C.[ClientID]
WHERE P.[ClientID] IS NULL`
- C. `SELECT DISTINCT P.[ClientID]
FROM Project P
LEFT OUTER JOIN Client C ON P.[ClientID] = C.[ClientID]
WHERE P.[ClientID] IS NOT NULL`
- D. `SELECT DISTINCT P.[ClientID]
FROM Project P
RIGHT OUTER JOIN Client C ON P.[ClientID] = C.[ClientID]
WHERE P.[ClientID] IS NOT NULL`

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A


References: <https://www.dofactory.com/sql/select-distinct>


<https://www.dofactory.com/sql/right-outer-join>

QUESTION 4

You have a database that contains the tables shown in the exhibit. (Click the Exhibit button.)

OrderDetails			
	Column Name	Data Type	Allow Nulls
	ListPrice	money	<input type="checkbox"/>
	Quantity	int	<input type="checkbox"/>
			<input type="checkbox"/>

Customers			
	Column Name	Data Type	Allow Nulls
	CustomerID	int	<input type="checkbox"/>
	FirstName	varchar(100)	<input type="checkbox"/>
	LastName	varchar(100)	<input type="checkbox"/>
			<input type="checkbox"/>

Orders			
	Column Name	Data Type	Allow Nulls
	OrderID	int	<input type="checkbox"/>
	OrderDate	datetime	<input type="checkbox"/>
	CustomerID	int	<input type="checkbox"/>
			<input type="checkbox"/>

You deploy a new server that has SQL Server 2012 installed. You need to create a table named Sales.OrderDetails on the new server. Sales.OrderDetails must meet the following requirements:

Write the results to a disk.

Contain a new column named LineItemTotal that stores the product of ListPrice and Quantity for each row.

The code must NOT use any object delimiters.

The solution must ensure that LineItemTotal is stored as the last column in the table. Which code segment should you use?

To answer, type the correct code in the answer area.

Correct Answer: Please review the part for this answer

CREATE TABLE Sales.OrderDetails (

ListPrice money not null,

Quantity int not null,

LineItemTotal as (ListPrice * Quantity) PERSISTED)

QUESTION 5

You work as a SQL Server 2012 database developer at ABC.com.

ABC.com has a database SalesDB with a large Orders table. You create a heap named OldData that will store historical data from the Orders table.

You need to write a Transact-SQL query that will insert rows of data from the Orders table that are marked as closed and are more than six months old.

Which of the following table hints should you use in your query if you want to optimize transaction logging and locking for the query?

- A. You should make use of the READPAST hint.
- B. You should make use of the HOLDLOCK hint.
- C. You should make use of the READCOMMITTED hint.
- D. You should make use of the NOLOCK hint.
- E. You should make use of the TABLOCK hint.
- F. You should make use of the UPDLOCK hint.

Correct Answer: E

QUESTION 6

When you need to operate on one row at a time, what are the alternatives to using a cursor?

- A. Using the FOR EACH looping construct.
- B. Retrieving the minimum and maximum keys, and then looping with a counter that starts with the minimum and keeps being incremented by 1 in each iteration until it reaches the maximum.
- C. Using a TOP (1) query ordered by the key to fetch the first row. Then use a loop while the last key returned is not NULL. In each iteration of the loop, process the current row and then use a TOP (1) query where the key is greater than the last, ordered by the key, to fetch the next row.
- D. Define a per-row SELECT trigger.

Correct Answer: C

QUESTION 7

ABC.com has a SQL Server 2012 database instance that hosts a database named ComDB. The ComDB database has a table named Partners that was created using the following Transact-SQL code:

```
CREATE TABLE [dbo].[Partners]
(
[CompanyID] [int] NOT NULL,
[CompanyName] [nvarchar] (50) NOT NULL,
[Location] [nvarchar] (50) NOT NULL,
[ContactName] [nvarchar] (50) NOT NULL,
[Email] [nvarchar] (50) NOT NULL,
[Phone] [nvarchar] (10) NOT NULL,
CONSTRAINT [PK_Partners] PRIMARY KEY CLUSTERED
(
[CompanyID] ASC
)
ON PRIMARY
)
```

You want to create a FOR UPDATE trigger that will track changes to the ContactName and Phone columns.

Which of the following statements should you use in the trigger definition?

- A. IF COLUMNS_UPDATED (ContactName, Phone)
- B. IF COLUMNS_UPDATED (ContactName) OR COLUMNS_UPDATED (Phone)
- C. IF UPDATED (ContactName, Phone).
- D. IF UPDATED (ContactName) OR UPDATED (Phone)

Correct Answer: D

QUESTION 8

You work as a database developer at ABC.com. ABC.com has a SQL Server 2012 database named SalesDB with a table named Invoices.

Application developers are developing several in-house applications that will access the Invoices table. You need to develop a solution that will allow the applications to access the table indirectly while still allowing them to update the Invoice

table.

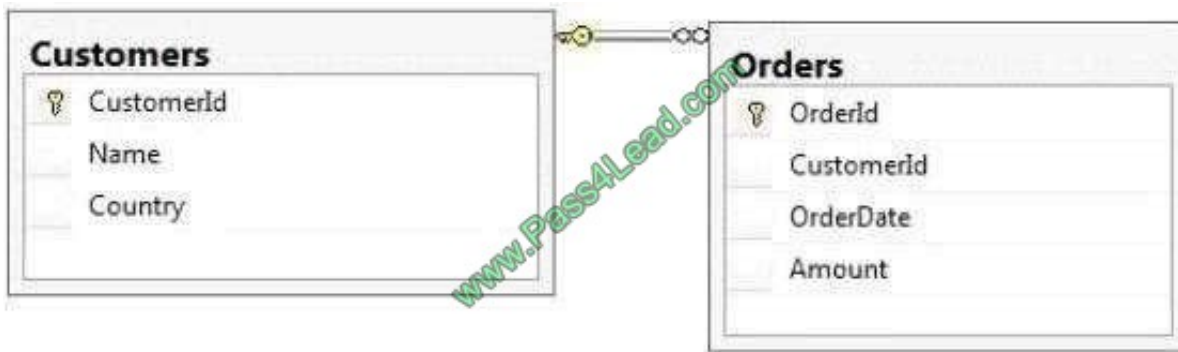
How would you accomplish this task?

- A. You should create a view on the Invoices table.
- B. You should create a columnstore index on all columns used by the applications.
- C. You should allow the applications access to the Invoices table via stored procedures.
- D. You should drop and recreate the Invoices table as a partitioned table.

Correct Answer: A

QUESTION 9

You administer a Microsoft SQL Server 2012 database named ContosoDb. Tables are defined as shown in the exhibit.



You need to display rows from the Orders table for the Customers row having the CustomerId value set to 1 in the following XML format.

```
<Customers Name="Customer A" Country="Australia">
  <OrderId>1</OrderId>
  <OrderDate>2000-01-01T00:00:00</OrderDate>
  <Amount>3400.00</Amount>
</Customers>
<Customers Name="Customer A" Country="Australia">
  <OrderId>2</OrderId>
  <OrderDate>2001-01-01T00:00:00</OrderDate>
  <Amount>4300.00</Amount>
</Customers>
```

Which Transact-SQL query should you use?

- A. SELECT OrderId, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers ON Orders.CustomerId = Customers.CustomerId WHERE Customers.CustomerId = 1 FOR XML RAW
- B. SELECT OrderId, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers ON Orders.CustomerId = Customers.CustomerId WHERE Customers.CustomerId = 1 FOR XML RAW, ELEMENTS
- C. SELECT OrderId, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers ON

Orders.CustomerId = Customers.CustomerId WHERE Customers.CustomerId = 1 FOR XML AUTO

D. SELECT OrderId, OrderDate, Amount, Name, Country FROM Orders INNER JOIN Customers ON Orders.CustomerId = Customers.CustomerId WHERE Customers.CustomerId = 1 FOR XML AUTO, ELEMENTS

E. SELECT Name, Country, OrderId, OrderDate, Amount FROM Orders INNER JOIN Customers ON Orders.CustomerId=Customers.CustomerId WHERE Customers.CustomerId= 1 FOR XML AUTO

F. SELECT Name, Country, CrderId, OrderDate, Amount FROM Orders INNER JOIN Customers ON Orders.CustomerId= Customers.CustomerId WHERE Customers.CustomerId= 1 FOR XML AUTO, ELEMENTS

G. SELECT Name AS '@Name', Country AS '@Country', OrderId, OrderDate, Amount FROM Orders INNER JOIN Customers ON Orders.CustomerId= Customers.CustomerId WHERE Customers.CustomerId= 1 FOR XML PATH ('Customers')

H. SELECT Name AS 'Customers/Name', Country AS 'Customers/Country', OrderId, OrderDate, Amount FROM Orders INNER JOIN Customers ON Orders.CustomerId= Customers.CustomerId WHERE Customers.CustomerId= 1 FOR XML PATH ('Customers')

Correct Answer: G

QUESTION 10

You have a database named Sales that contains the tables shown in the exhibit. (Click the Exhibit button).

OrderDetails			
	Column Name	Data Type	Allow Nulls
	ListPrice	money	<input type="checkbox"/>
	Quantity	int	<input type="checkbox"/>
			<input type="checkbox"/>

Customers			
	Column Name	Data Type	Allow Nulls
	CustomerID	int	<input type="checkbox"/>
	FirstName	varchar(100)	<input type="checkbox"/>
	LastName	varchar(100)	<input type="checkbox"/>
			<input type="checkbox"/>

Orders			
	Column Name	Data Type	Allow Nulls
	OrderID	int	<input type="checkbox"/>
	OrderDate	datetime	<input type="checkbox"/>
	CustomerID	int	<input type="checkbox"/>
			<input type="checkbox"/>

You need to create a query for a report. The query must meet the following requirements:

NOT use object delimiters.

Use the first initial of the table as an alias.

Return the most recent order date for each customer.

Retrieve the last name of the person who placed the order.

The solution must support the ANSI SQL-99 standard.

Part of the correct T-SQL statement has been provided in the answer area. Provide the complete code.

```
SELECT LastName,
MAX(OrderDate) AS MostRecentOrderDate
```

Correct Answer: Please review the explanation part for this answer

```
SELECT C.LastName, MAX(O.OrderDate) AS MostRecentOrderDate FROM Customers AS C INNER JOIN Orders AS
```

O ON C.CustomerID=O.CustomerID GROUP BY C.Lastname ORDER BY MAX (O.OrderDate) DESC

QUESTION 11

ABC.com has a SQL Server 2012 database infrastructure that has a database named ComDB.

You have created a view using the following Transact-SQL code:

```
CREATE VIEW ABCCommunications
```

```
(Type, CompanyID, CompanyName, Location, ContactName, Email, Phone)
```

```
AS
```

```
SELECT \\'Clients\\' AS Type, CompanyID, CompanyName, Location, ContactName, Email, Phone
```

```
FROM CommList
```

```
WHERE Relation = \\'Client\\'
```

```
SELECT \\'Partners\\' AS Type, CompanyID, CompanyName, Location, ContactName, Email, Phone
```

```
FROM CommList
```

```
WHERE Relation = \\'Partner\\'
```

```
SELECT \\'Guests\\' AS Type, CompanyID, CompanyName, Location, ContactName, Email, Phone
```

```
FROM CommList
```

```
WHERE Relation = \\'Guests\\'
```

```
GO
```

You want the view to be used to edit all columns except the CompanyID, CompanyName and Location columns.

What should you implement on the view?

- A. You should consider implementing an AFTER UPDATE trigger.
- B. You should consider implementing an Index.
- C. You should consider implementing an INSTEAD OF UPDATE trigger.
- D. You should consider implementing a CHECK constraint.

Correct Answer: C

QUESTION 12

You are developing a database application by using Microsoft SQL Server 2012. An application that uses a database begins to run slowly. You discover that the root cause is a query against a frequently updated table that has a clustered index. The query returns four columns: three columns in its WHERE clause contained in a non-clustered index and one

additional column. You need to optimize the statement. What should you do?

- A. Add a HASH hint to the query.
- B. Add a LOOP hint to the query.
- C. Add a FORCESEEK hint to the query.
- D. Add an INCLUDE clause to the index.
- E. Add a FORCESCAN hint to the Attach query.
- F. Add a columnstore index to cover the query.
- G. Enable the optimize for ad hoc workloads option.
- H. Cover the unique clustered index with a columnstore index.
- I. Include a SET FORCEPLAN ON statement before you run the query.
- J. Include a SET STATISTICS PROFILE ON statement before you run the query.
- K. Include a SET STATISTICS SHOWPLAN_XML ON statement before you run the query.
- L. Include a SET TRANSACTION ISOLATION LEVEL REPEATABLE READ statement before you run the query.
- M. Include a SET TRANSACTION ISOLATION LEVEL SNAPSHOT statement before you run the query.
- N. Include a SET TRANSACTION ISOLATION LEVEL SERIALIZABLE statement before you run the query.

Correct Answer: C

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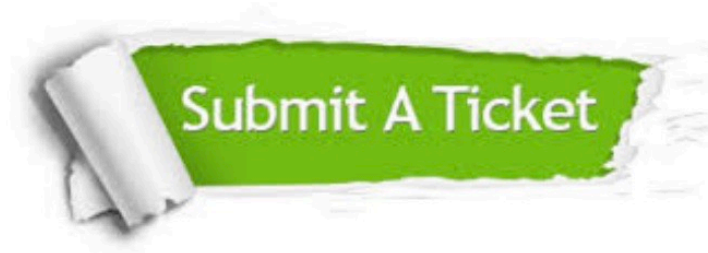
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