



70-457^{Q&As}

Transition Your MCTS on SQL Server 2008 to MCSA: SQL Server 2012, Part 1

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QUESTION 1

You are a database developer for an application hosted on a Microsoft SQL Server 2012 server. The database contains two tables that have the following definitions:

```
CREATE TABLE Customer
(CustomerID int NOT NULL PRIMARY KEY,
 CustomerName varchar(50) NOT NULL)

CREATE TABLE Orders
(OrderID int NOT NULL PRIMARY KEY,
 CustomerID int NOT NULL FOREIGN KEY REFERENCES Customer (CustomerID),
 OrderAmount money NOT NULL,
 ShippingCountry varchar(50) NOT NULL)
```

Global customers place orders from several countries.

You need to view the country from which each customer has placed the most orders.

Which Transact-SQL query do you use?

- A. `SELECT c.CustomerID, c.CustomerName, o.ShippingCountry FROM Customer c INNER JOIN (SELECT CustomerID, ShippingCountry, RANK() OVER (PARTITION BY CustomerID ORDER BY COUNT(OrderAmount) DESC) AS Rnk FROM Orders GROUP BY CustomerID, ShippingCountry) AS o ON c.CustomerID = o.CustomerID WHERE o.Rnk = 1`
- B. `SELECT c.CustomerID, c.CustomerName, o.ShippingCountry FROM (SELECT c.CustomerID, c.CustomerName, o.ShippingCountry, RANK() OVER (PARTITION BY CustomerID ORDER BY COUNT(o.OrderAmount) ASC) AS Rnk FROM Customer c INNER JOIN Orders o ON c.CustomerID = o.CustomerID GROUP BY c.CustomerID, c.CustomerName, o.ShippingCountry) cs WHERE Rnk = 1`
- C. `SELECT c.CustomerID, c.CustomerName, o.ShippingCountry FROM Customer c INNER JOIN (SELECT CustomerID, ShippingCountry, RANK() OVER (PARTITION BY CustomerID ORDER BY OrderAmount DESC) AS Rnk FROM Orders GROUP BY CustomerID, ShippingCountry) AS o ON c.CustomerID = o.CustomerID WHERE o.Rnk = 1`
- D. `SELECT c.CustomerID, c.CustomerName, o.ShippingCountry FROM Customer c INNER JOIN (SELECT CustomerID, ShippingCountry, COUNT(OrderAmount) DESC) AS OrderAmount FROM Orders GROUP BY CustomerID, ShippingCountry) AS o ON c.CustomerID = o.CustomerID ORDER BY OrderAmount DESC`

Correct Answer: A

QUESTION 2

You use Microsoft SQL Server 2012 database to develop a shopping cart application. You need to rotate the unique values of the ProductName field of a table-valued expression into multiple columns in the output.

Which Transact-SQL operator should you use?

- A. CROSS JOIN
- B. CROSS APPLY



C. PIVOT

D. UNPIVOT

Correct Answer: C

<http://technet.microsoft.com/en-us/library/ms177634.aspx>

QUESTION 3

You administer a Microsoft SQL Server 2012 database.

You use an OrderDetail table that has the following definition:

```
CREATE TABLE [dbo].[OrderDetail]
([SalesOrderID] [int] NOT NULL,
 [SalesOrderDetailID] [int] IDENTITY(1,1) NOT NULL,
 [CarrierTrackingNumber] [nvarchar](25) NULL,
 [OrderQty] [smallint] NOT NULL,
 [ProductID] [int] NOT NULL,
 [SpecialOfferID] [int] NULL,
 [UnitPrice] [money] NOT NULL);
```

You need to create a non-clustered index on the SalesOrderID column in the OrderDetail table to include only rows that contain a value in the SpecialOfferID column.

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

Select and Place:

WHERE
FILTER ON
SpecialOfferID IS NOT NULL;
ON dbo.OrderDetail (SalesOrderID)
ON dbo.OrderDetail (SalesOrderID) AS FILTERED_INDEX
CREATE NONCLUSTERED INDEX FIndx_SpecialOfferID
CREATE NONCLUSTERED FILTERED INDEX FIndx_SpecialOfferID

Correct Answer:



```
CREATE NONCLUSTERED INDEX FIndx_SpecialOfferID
ON dbo.OrderDetail (SalesOrderID)
WHERE
SpecialOfferID IS NOT NULL;

ON dbo.OrderDetail (SalesOrderID) AS
FILTERED_INDEX

CREATE NONCLUSTERED FILTERED INDEX
FIndx_SpecialOfferID
```

QUESTION 4

You are developing a database application by using Microsoft SQL Server 2012. An application that uses a database begins to run slowly. Your investigation shows the root cause is a query against a read-only table that has a clustered index.

The query returns the following six columns:

One column in its WHERE clause contained in a non-clustered index Four additional columns One COUNT (*) column based on a grouping of the four additional columns

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: F

QUESTION 5

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 have a stored procedure named Procedure1. Procedure1 retrieves all order ids after a specific date.

The rows for Procedure1 are not sorted.

Procedure1 has a single parameter named Parameter1. Parameter1 uses the varchar type and is configured to pass the specific date to Procedure1.



A database administrator discovers that OrderDate is not being compared correctly to Parameter1 after the data type of the column is changed to datetime.

You need to update the SELECT statement to meet the following requirements:

*The code must NOT use aliases.

*The code must NOT use object delimiters.

*The objects called in Procedure1 must be able to be resolved by all users. *OrderDate must be compared to Parameter1 after the data type of Parameter1 is changed to datetime.

Which SELECT statement should you use?

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

A. `SELECT OrderID FROM Orders WHERE OrderDate>CONVERT(datetime,@Parameter1)`

B. `SELECT Orders.OrderID FROM Orders WHERE Orders.OrderDate>CONVERT(datetime,@Parameter1)`

Correct Answer: A

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