



70-461^{Q&As}

Querying Microsoft SQL Server 2012/2014

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QUESTION 1

You are the database administrator of a SQL Server 2012 database infrastructure at ABC.com.

You need to optimize a very large database table that contains several million rows of data by designing a view based on the table. The view must allow users to perform aggregations on several columns.

How should you configure the view to ensure optimal performance?

- A. You should create the view as an indexed view.
- B. You should create a clustered index on the view.
- C. You should make use of a stored procedure to return that data.
- D. You should make use of a table-valued function.

Correct Answer: A

QUESTION 2

You use a Microsoft SQL Server database that contains a table. The table has records of customer orders.

Your company has three divisions that have the following names:

East

Central West

You need to create a query that displays the following information: The number of sales for each product (ProductName) grouped by the division (Division) that sold the product A column for each division

Which Transact-SQL query should you use?



```
A. DECLARE @Results TABLE (
    ProductName VARCHAR(255),
    East INT,
    Central INT,
    West INT)

INSERT INTO @Results (ProductName, East)
SELECT ProductName, COUNT(OrderId)
FROM Orders
WHERE Division = "East"

UPDATE @Results
SET Central = COUNT(OrderId)
FROM Orders o INNER JOIN @Results r ON o.ProductName = r.ProductName
WHERE Division = "Central"

UPDATE @Results
SET West = COUNT(OrderId)
FROM Orders o INNER JOIN @Results r ON o.ProductName = r.ProductName
WHERE Division = "West"

SELECT
    ProductName,
    East,
    Central,
    West
FROM
    @Results

B. SELECT
    ProductName,
    SUM(CASE WHEN Division = "East" THEN 1 ELSE 0 END) AS East,
    SUM(CASE WHEN Division = "Central" THEN 1 ELSE 0 END) AS Central,
    SUM(CASE WHEN Division = "West" THEN 1 ELSE 0 END) AS West
FROM
    Orders
GROUP BY
    Division
ORDER BY
    ProductName
```

A. B.



C.

```
SELECT
    ProductName,
    East,
    Central,
    West
FROM
    (SELECT OrderId, Division, ProductName FROM Orders) o
    PIVOT (
        COUNT (o.OrderId)
        FOR o.Division IN (East, Central, West)
    ) AS pvt
ORDER BY
    pvt.ProductName
```

D.

```
SELECT
    ProductName,
    Server,
    Requests
FROM
    (SELECT OrderId, Division, ProductName FROM Orders) o
    UNPIVOT (
        Requests FOR Division IN ([Division])
    ) AS pvt
ORDER BY
    pvt.ProductName
```

C. D.

Correct Answer: D

You can use the PIVOT and UNPIVOT relational operators to change a table-valued expression into another table. PIVOT rotates a table-valued expression by turning the unique values from one column in the expression into multiple columns in the output, and performs aggregations where they are required on any remaining column values that are wanted in the final output. UNPIVOT performs the opposite operation to PIVOT by rotating columns of a table-valued expression into column values.

References: [https://technet.microsoft.com/en-us/library/ms177410\(v=sql.105\).aspx](https://technet.microsoft.com/en-us/library/ms177410(v=sql.105).aspx)

QUESTION 3

What levels can an index have? (Choose all that apply.)



- A. Intermediate level
- B. Heap level
- C. Root level
- D. Leaf level

Correct Answer: ACD

QUESTION 4

You support a database structure shown in the exhibit. (Click the Exhibit button.)



You need to write a query that displays the following details: Total sales made by sales people, year, city, and country
Sub totals only at the city level and country level A grand total of the sales amount

Which Transact-SQL query should you use?

- A. `SELECT SalesPerson.Name, Country, City, DatePart(yyyy, SaleDate) AS Year, Sum(Amount) AS Total FROM Sale INNER JOIN SalesPerson ON Sale.SalesPersonID = SalesPerson.SalesPersonID GROUP BY GROUPING SETS((SalesPerson.Name, Country, City, DatePart(yyyy, SaleDate)), (Country, City), (Country), ())`
- B. `SELECT SalesPerson.Name, Country, City, DatePart(yyyy, SaleDate) AS Year, Sum(Amount) AS Total FROM Sale INNER JOIN SalesPerson ON Sale.SalesPersonID = SalesPerson.SalesPersonID GROUP BY CUBE(SalesPerson.Name, Country, City, DatePart(yyyy, SaleDate))`
- C. `SELECT SalesPerson.Name, Country, City, DatePart(yyyy, SaleDate) AS Year, Sum(Amount) AS Total FROM Sale INNER JOIN SalesPerson ON Sale.SalesPersonID = SalesPerson.SalesPersonID GROUP BY CUBE(SalesPerson.Name, DatePart(yyyy, SaleDate), City, Country)`
- D. `SELECT SalesPerson.Name, Country, City, DatePart(yyyy, SaleDate) AS Year, Sum(Amount) AS Total FROM Sale INNER JOIN SalesPerson ON Sale.SalesPersonID = SalesPerson.SalesPersonID GROUP BY ROLLUP(SalesPerson.Name, DatePart(yyyy, SaleDate), City, Country)`

Correct Answer: A

Be careful with this question, because on exam can be different options for answer. Reference:
<http://www.grapefruitmoon.net/diving-into-t-sql-grouping-sets/> Reference: <http://msdn.microsoft.com/en-us/library/ms177673.aspx>



QUESTION 5

What is the scan called when SQL Server scans a clustered index in logical order of the index?

- A. Allocation order scan
- B. Clustered index scan
- C. Index order scan
- D. Index order seek

Correct Answer: C

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