



# 70-761<sup>Q&As</sup>

Querying Data with Transact-SQL

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### QUESTION 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are building a stored procedure that will be used by hundreds of users concurrently.

You need to store rows that will be processed later by the stored procedure. The object that stores the rows must meet the following requirements:

Be indexable

Contain up-to-date statistics

Be able to scale between 10 and 100,000 rows

The solution must prevent users from accessing one another's data.

Solution: You create a user-defined table in the stored procedure.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

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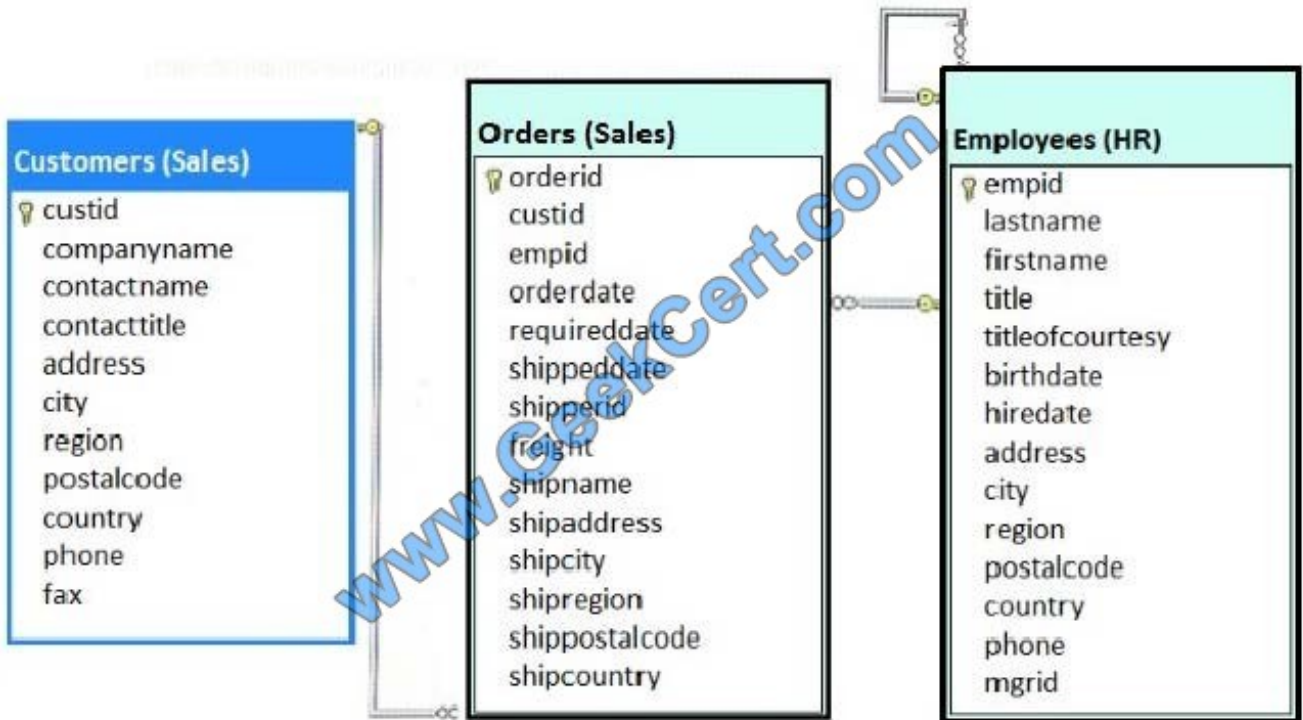
### QUESTION 2

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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



You need to create a Transact-SQL query that returns the following information:

the customer number

the customer contact name

the date the order was placed, with a name of DateofOrder

a column named Salesperson, formatted with the employee first name, a space, and the employee last name

orders for customers where the employee identifier equals 4

The output must be sorted by order date, with the newest orders first.

The solution must return only the most recent order for each customer.

Solution: You run the following Transact-SQL statement:

```
SELECT c.custid, contactname, MAX(orderdate) AS DateofOrder,
e.firstname + ' ' + e.lastname AS Salesperson
FROM Sales.Customers AS c
INNER JOIN Sales.Orders AS o ON c.custid = o.custid
INNER JOIN HR.Employees AS e ON o.empid = e.empid
WHERE o.empid = 4
ORDER BY DateofOrder DESC
```

Does the solution meet the goal?

A. Yes



B. No

Correct Answer: B

We need a GROUP BY statement as we want to return an order for each customer.

### QUESTION 3

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You have a database that contains tables named Customer\_CRMSystem and Customer\_HRSystem. Both tables use the following structure:

The tables include the following records:

Customer\_CRMSystem

CustomerID	CustomerCode	CustomerName
1	CUS1	Roya
2	CUS9	Almudena
3	CUS4	Jack
4	NULL	Jane
5	NULL	Francisco

Customer\_HRSystem

CustomerID	CustomerCode	CustomerName
1	CUS1	Roya
2	CUS2	Jose
3	CUS9	Almudena
4	NULL	Jane

Records that contain null values for CustomerCode can be uniquely identified by CustomerName.

You need to create a list of all unique customers that appear in either table.

Which Transact-SQL statement should you run?



- A. `SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName  
FROM Customer_CRMSystem c  
INNER JOIN Customer_HRSystem h  
ON c.CustomerCode = h.CustomerCode AND c.CustomerName = h.CustomerName`
- B. `SELECT CustomerCode, CustomerName  
FROM Customer_CRMSystem  
INTERSECT  
SELECT CustomerCode, CustomerName  
FROM Customer_HRSystem`
- C. `SELECT c.CustomerCode, c.CustomerName  
FROM Customer_CRMSystem c  
LEFT OUTER JOIN Customer_HRSystem h  
ON c.CustomerCode = h.CustomerCode  
WHERE h.CustomerCode IS NULL AND c.CustomerCode IS NOT NULL`
- D. `SELECT CustomerCode, CustomerName  
FROM Customer_CRMSystem  
EXCEPT  
SELECT CustomerCode, CustomerName  
FROM Customer_HRSystem`
- E. `SELECT CustomerCode, CustomerName  
FROM Customer_CRMSystem  
UNION  
SELECT CustomerCode, CustomerName  
FROM Customer_HRSystem`
- F. `SELECT CustomerCode, CustomerName  
FROM Customer_CRMSystem  
UNION ALL  
SELECT CustomerCode, CustomerName  
FROM Customer_HRSystem`
- G. `SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName  
FROM Customer_CRMSystem c  
CROSS JOIN Customer_HRSystem h`

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





```
SELECT c.CustomerCode, c.CustomerName, h.CustomerCode, h.CustomerName
FROM Customer_CRMSystem c
FULL OUTER JOIN Customer_HRSystem h
ON c.CustomerCode = h.CustomerCode AND c.CustomerName = h.CustomerName
```

H.

Correct Answer: E

UNION combines the results of two or more queries into a single result set that includes all the rows that belong to all queries in the union. The UNION operation is different from using joins that combine columns from two tables. Incorrect Answers:

F: UNION ALL incorporates all rows into the results. This includes duplicates. If not specified, duplicate rows are removed. References: <https://msdn.microsoft.com/en-us/library/ms180026.aspx>

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#### QUESTION 4

##### HOTSPOT

You have the following Transact-SQL statement:

```
DELETE FROM Person
```

```
WHERE PersonID = 5
```

You need to implement error handling.

How should you complete Transact-SQL statement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



## Answer Area

BEGIN TRANSACTION

	▼
END TRY	
COMMIT TRANSACTION	
END CATCH	
BEGIN TRY	
ROLLBACK TRANSACTION	
BEGIN CATCH	

DELETE FROM Person  
WHERE PersonID = 5

	▼
END TRY	
COMMIT TRANSACTION	
END CATCH	
BEGIN TRY	
ROLLBACK TRANSACTION	
BEGIN CATCH	

	▼
END TRY	
COMMIT TRANSACTION	
END CATCH	
BEGIN TRY	
ROLLBACK TRANSACTION	
BEGIN CATCH	

...

IF @@TRANCOUNT > 0

	▼
END TRY	
COMMIT TRANSACTION	
END CATCH	
BEGIN TRY	
ROLLBACK TRANSACTION	
BEGIN CATCH	

	▼
END TRY	
COMMIT TRANSACTION	
END CATCH	
BEGIN TRY	
ROLLBACK TRANSACTION	
BEGIN CATCH	

IF @@TRANCOUNT > 0  
COMMIT TRANSACTION



Correct Answer:





## Answer Area

BEGIN TRANSACTION

	▼
END TRY	
COMMIT TRANSACTION	
END CATCH	
BEGIN TRY	
ROLLBACK TRANSACTION	
BEGIN CATCH	

DELETE FROM Person  
WHERE PersonID = 5

	▼
END TRY	
COMMIT TRANSACTION	
END CATCH	
BEGIN TRY	
ROLLBACK TRANSACTION	
BEGIN CATCH	

	▼
END TRY	
COMMIT TRANSACTION	
END CATCH	
BEGIN TRY	
ROLLBACK TRANSACTION	
BEGIN CATCH	

...

IF @@TRANCOUNT > 0

	▼
END TRY	
COMMIT TRANSACTION	
END CATCH	
BEGIN TRY	
ROLLBACK TRANSACTION	
BEGIN CATCH	

	▼
END TRY	
COMMIT TRANSACTION	
END CATCH	
BEGIN TRY	
ROLLBACK TRANSACTION	
BEGIN CATCH	

IF @@TRANCOUNT > 0  
COMMIT TRANSACTION



References: <https://docs.microsoft.com/en-us/sql/t-sql/language-elements/try-catch-transact-sql?view=sql-server-2017>

### QUESTION 5

You need to create a table named MiscellaneousPayment that meets the following requirements:

Column name	Requirements
Id	<ul style="list-style-type: none"><li>• primary key of the table</li><li>• value must be globally unique</li><li>• value must be automatically generated for INSERTs operations</li></ul>
Reason	<ul style="list-style-type: none"><li>• stores reasons for the payment</li><li>• supports multilingual values</li><li>• supports values with 1 to 500 characters</li></ul>
Amount	<ul style="list-style-type: none"><li>• stores monetary values</li><li>• must not produce rounding errors with calculations</li></ul>

Which Transact-SQL statement should you run?

```
CREATE TABLE MiscellaneousPayment (Id uniqueidentifier  
DEFAULT NEWSEQUENTIALID() PRIMARY KEY, Reason varchar(500),  
Amount money)
```

- A. 

```
CREATE TABLE MiscellaneousPayment (Id uniqueidentifier  
DEFAULT NEWSEQUENTIALID() PRIMARY KEY, Reason varchar(500),  
Amount money)
```
- B. 

```
CREATE TABLE MiscellaneousPayment (Id  
intidentify(1,1) PRIMARY KEY, Reason nvarchar(500), Amount  
numeric(19,4))
```
- C. 

```
CREATE TABLE MiscellaneousPayment (Id uniqueidentifier  
DEFAULT NEWSEQUENTIALID() PRIMARY KEY, Reason varchar(500),  
Amount decimal(19,4))
```
- D. 

```
CREATE TABLE MiscellaneousPayment (Id uniqueidentifier  
DEFAULT NEWID() PRIMARY KEY, Reason nvarchar(500), Amount  
decimal(19,4))
```

A. B. C. D.

Correct Answer: D

Incorrect Answers:



A: For column Reason we must use nvarchar, not varchar, as multilingual values must be supported.

B: We cannot use INT for the Id column as new values must be automatically generated.

C: For column Reason we must use nvarchar, not varchar, as multilingual values must be supported.

Note: Nvarchar stores UNICODE data. If you have requirements to store UNICODE or multilingual data, nvarchar is the choice. Varchar stores ASCII data and should be your data type of choice for normal use.

References: <https://docs.microsoft.com/en-us/sql/t-sql/data-types/nchar-and-nvarchar-transact-sql>

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