



70-761^{Q&As}

Querying Data with Transact-SQL

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QUESTION 1

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 table named Person that contains information about employees. Users are requesting a way to access specific columns from the Person table without specifying the Person table in the query statement. The columns that users can access will be determined when the query is running against the data. There are some records that are restricted, and a trigger will evaluate whether the request is attempting to access a restricted record.

You need to ensure that users can access the needed columns while minimizing storage on the database server.

What should you implement?

- A. the COALESCE function
- B. a view
- C. a table-valued function
- D. the TRY_PARSE function
- E. a stored procedure
- F. the ISNULL function
- G. a scalar function
- H. the TRY_CONVERT function

Correct Answer: B

References: <https://docs.microsoft.com/en-us/sql/t-sql/statements/create-view-transact-sql?view=sql-server-2017>

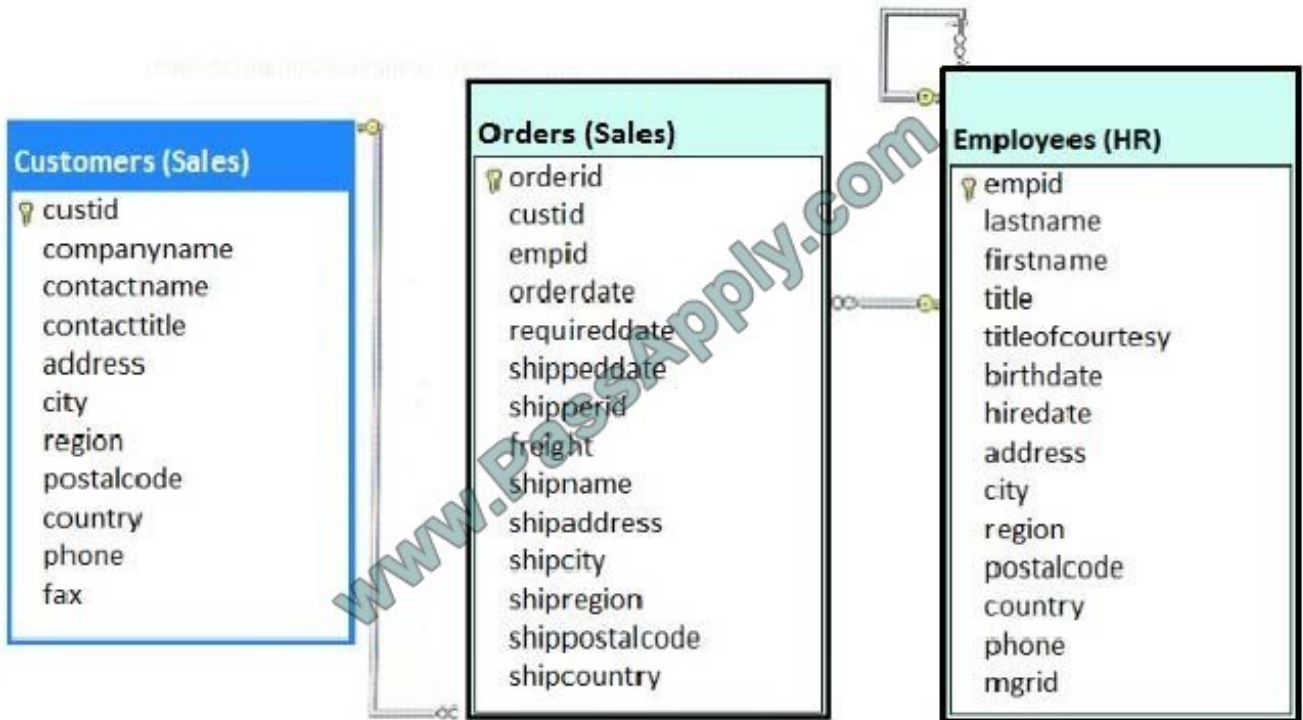
QUESTION 2

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  
GROUP BY c.custid, contactname, firstname, lastname, o.empid  
HAVING o.empid = 4  
ORDER BY DateofOrder DESC
```

Does the solution meet the goal?

A. Yes



B. No

Correct Answer: B

We should use a WHERE clause, not a HAVING clause. The HAVING clause would refer to aggregate data.

QUESTION 3

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 table named Products that stores information about products your company sells. The table has a column named ListPrice that stores retail pricing information for products.

Some products are used only internally by the company. Records for these products are maintained in the Products table for inventory purposes. The price for each of these products is \$0.00. Customers are not permitted to order these products.

You need to increase the list price for products that cost less than \$100 by 10 percent. You must only increase pricing for products that customers are permitted to order. Solution: You run the following Transact-SQL statement:

```
UPDATE Production.Products  
SET ListPrice = (ListPrice * .1)  
WHERE ListPrice <100
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Mathematical equation will only return 10 % of the value.

QUESTION 4

HOTSPOT

You have a database that contains the following tables: tblRoles, tblUsers, and tblUsersInRoles.



The table tblRoles is defined as follows.

Column name	Data type	Nullable	Primary key
RoleID	int	No	Yes
RoleName	varchar(20)	No	No

You have a function named ufnGetRoleActiveUsers that was created by running the following Transact-SQL statement:

```
CREATE FUNCTION ufnGetRoleActiveUsers(@RoleId AS int)
RETURNS @roleSummary TABLE(UserName varchar (20))
AS
BEGIN
    INSERT INTO @roleSummary
    SELECT U.UserName FROM tblUsersInRoles BRG
    INNER JOIN tblUsers U
    ON U.UserId = BRG.UserId
    WHERE BRG.RoleId = @RoleId AND U.IsActive = 1
    RETURN
END
```

You need to list all roles and their corresponding active users. The query must return the RoleId, RoleName, and UserName columns. If a role has no active users, a NULL value should be returned as the UserName for that role. How should you complete the Transact-SQL statement? To answer, select the appropriate Transact-SQL segments in the answer area.

Hot Area:

Answer area

SELECT *

FROM

tblRoles
tblUsersInRoles
tblUsers

ufnGetRoleActiveUsers(

CROSS JOIN
OUTER APPLY
CROSS APPLY

)

RoleId
UserId
RoleName

Correct Answer:



Answer area

SELECT *

FROM

	▼
tblRoles	
tblUsersInRoles	
tblUsers	

	▼
CROSS JOIN	
OUTER APPLY	
CROSS APPLY	

ufnGetRoleActiveUsers(

	▼
RoleId	
UserId	
RoleName	

QUESTION 5

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 create a table named Products by running the following Transact-SQL statement:

```
CREATE TABLE Products (
    ProductID int IDENTITY (1, 1), NOT NULL PRIMARY KEY,
    ProductName nvarchar (100), NULL,
    UnitPrice decimal (18, 2) NOT NULL,
    UnitsInStock int NOT NULL,
    UnitsOnOrder int NULL
)
```

You have the following stored procedure:



```
CREATE PROCEDURE InsertProduct
```

```
  @ProductName nvarchar(100),
```

```
  @UnitPrice decimal (18, 2),
```

```
  @UnitsInStock int,
```

```
  @UnitsOnOrder int
```

```
AS
```

```
BEGIN
```

```
  INSERT INTO Products (ProductName, UnitPrice, UnitsInStock, UnitsOnOrder)
```

```
  VALUES (@ProductName, @UnitPrice, @UnitsInStock, @UnitsOnOrder)
```

```
END
```

You need to modify the stored procedure to meet the following new requirements:

Insert product records as a single unit of work.

Return error number 51000 when a product fails to insert into the database.

If a product record insert operation fails, the product information must not be permanently written to the database.

Solution: You run the following Transact-SQL statement:



```
ALTER PROCEDURE InsertProduct
@ProductName nvarchar (100),
@UnitPrice decimal (18, 2),
@UnitsInStock int,
@UnitsOnOrder int
AS
BEGIN
    BEGIN TRY
        BEGIN TRANSACTION
            INSERT INTO Products (ProductName, UnitPrice, UnitsInStock, UnitsOnOrder)
            VALUES (@ProductName, @UnitPrice, @UnitsInStock, @UnitsOnOrder)
        COMMIT TRANSACTION
    END TRY
    BEGIN CATCH
        IF @@TRANCOUNT > 0 ROLLBACK TRANSACTION
        RAISERROR (51000,16, 1)
    END CATCH
END
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

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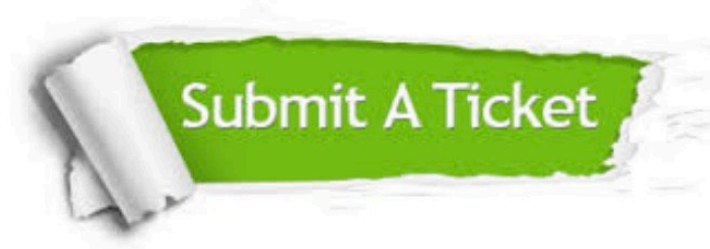
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