70-761^{Q&As}

Querying Data with Transact-SQL

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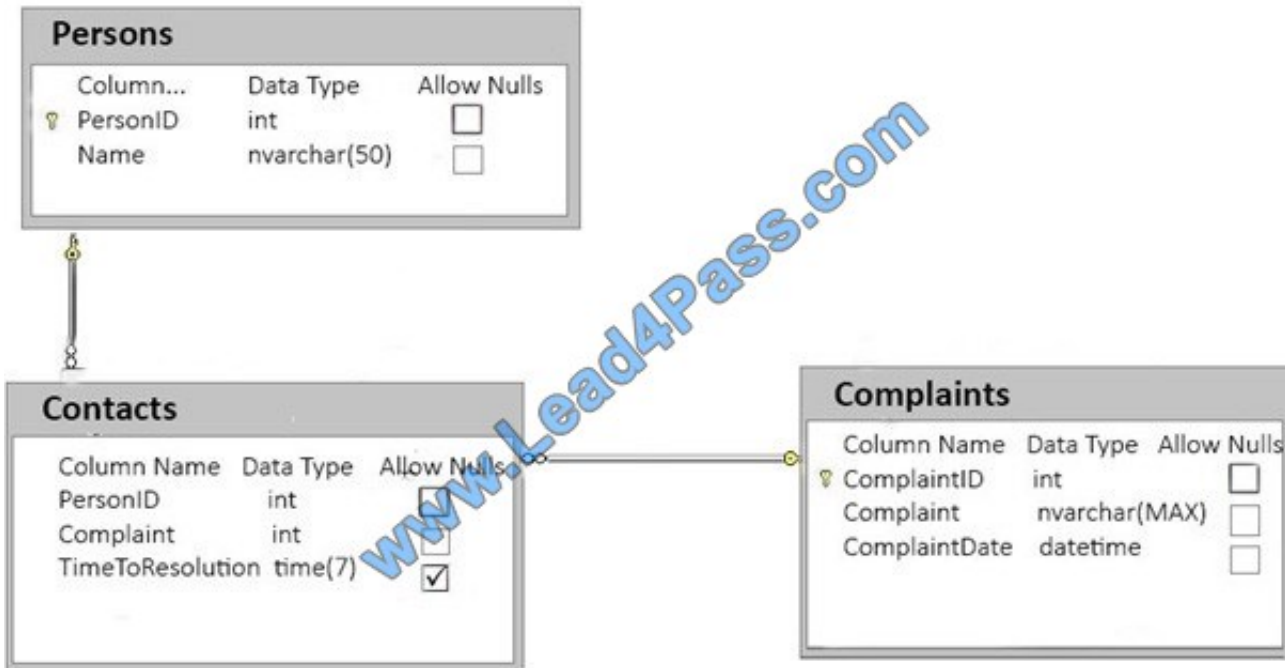🔧 **365 Days** Free Update

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QUESTION 1

SIMULATION

You have a database that contains the following tables.

Persons

Column...	Data Type	Allow Nulls
♀ PersonID	int	☐
Name	nvarchar(50)	☐

Contacts

Column Name	Data Type	Allow Nulls
PersonID	int	☐
Complaint	int	☐
TimeToResolution	time(7)	☑

Complaints

Column Name	Data Type	Allow Nulls
♀ ComplaintID	int	☐
Complaint	nvarchar(MAX)	☐
ComplaintDate	datetime	☐

You need to create a query that lists all complaints from the Complaints table, and the name of the person handling the complaints if a person is assigned. The ComplaintID must be displayed first, followed by the person name. Construct the query using the following guidelines:

Use two-part column names.

Use one-part table names.

Do not use aliases for column names or table names.

Do not use Transact-SQL functions.

Do not use implicit joins.

Do not surround object names with square brackets.

Part of the correct Transact-SQL has been provided in the answer area below. Enter the code in the answer area that resolves the problem and meets the stated goals or requirements. You can add code within the code that has been

provided as well as below it.

Keywords

ADD
ALL
ALTER
AND
ANY
AS
ASC
AUTHORIZATION
BACKUP
BEGIN
BETWEEN
BREAK
BROWSE
BULK
BY
CASCADE
CASE
CHECK
CHECKPOINT
CLOSE
CLUSTERED
COALESCE
COLLATE
COLUMN
COMMIT
COMPUTE
CONCAT
CONSTRAINT
CONTAINS
CONTAINSTABLE
CONTINUE
CONVERT
CREATE
CROSS
CURRENT
CURRENT_DATE
CURRENT_TIME
CURRENT_TIMESTAMP
CURRENT_USER
CURSOR
DATABASE
DBCC
DEALLOCATE
DECLARE
DEFAULT
DELETE
DENY
DESC
DISK
DISTINCT
DISTRIBUTED
DOUBLE
DROP
DUMP
ELSE
END
ERRLVL
ESCAPE
EXCEPT
EXEC
EXECUTE
EXISTS

EXIT
EXTERNAL
FETCH
FILE
FILLFACTOR
FORFOREIGN
FREETEXT
FREETEXTTABLE
FROM
FULL
FUNCTION
GOTO
GRANT
GROUP
HAVING
HOLDLOCK
IDENTITY
IDENTITY_INSERT
IDENTITYCOL
IF
IN
INDEX
INNER
INSERT
INTERSECT
INTO
IS
JOIN
KEY
KILL
LEFT
LIKE
LINENO
LOAD
MERGE
NATIONAL
NOCHECK
NONCLUSTERED
NOT
NULL
NULLIF
OF
OFF
OFFSETS
ON
OPEN
OPENDATASOURCE
OPENQUERY
OPENROWSET
OPENXML
OPTION
OR
ORDER
OUTER
OVER
PERCENT
PIVOT
PLAN
PRECISION
PRIMARY
PRINT

PROC
PROCEDURE
PUBLIC
RAISERROR
READ
READTEXT
RECONFIGURE
REFERENCES
REPLICATION
RESTORE
RESTRICT
RETURN
REVERT
REVOKE
RIGHT
ROLLBACK
ROWCOUNT
ROWGUIDCOL
RULE
SAVE
SCHEMA
SECURITYAUDIT
SELECT
SEMANTICKEYPHRASETABLE
SEMANTICSIMILARITYDETAILSTABLE
SEMANTICSIMILARITYTABLE
SESSION_USER
SET
SETUSER
SHUTDOWN
SOME
STATISTICS
SYSTEM_USER
TABLE
TABLESAMPLE
TEXTSIZE
THEN
TO
TOP
TRAN
TRANSACTION
TRIGGER
TRUNCATE
TRY_CONVERT
TSEQUAL
UNION
UNIQUE
UNPIVOT
UPDATE
UPDATETEXT
USE
USER
VALUES
VARYING
VIEW
WAITFOR
WHEN
WHERE
WHILE
WITH
WITHIN GROUP
WRITETEXT

```
1 SELECT Complaints.ComplaintId,
2 FROM
3 JOIN
4 JOIN
```

Use the Check Syntax button to verify your work. Any syntax or spelling errors will be reported by line and character position.

Correct Answer:

```
SELECT Complaints.ComlaintID, Persons.Name
FROM Persons
JOIN Contacts
ON Persons.PersonID=Contacts.PersonID
JOIN Complaints
ON Contacts.ComplaintID=Complaints.ComplaintID
```

References: https://technet.microsoft.com/en-us/library/ms190014(v=sql.105).aspx

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

```
CREATE TABLE Customer (
     CustomerID int IDENTITY(1,1) PRIMARY KEY,
     FirstName varchar(50) NULL,
     LastName varchar(50) NOT NULL,
     DateOfBirth date NOT NULL,
     CreditLimit money CHECK (CreditLimit < 10000),
     TownID int NULL REFERENCES Town(TownID),
     CreatedDate datetime DEFAULT (GETDATE())
)
```

You create a cursor by running the following Transact-SQL statement:

```
DECLARE cur CURSOR
FOR
SELECT LastName, CreditLimit
FROM Customer

DECLARE @LastName varchar(50), @CreditLimit money
OPEN cur
FETCH NEXT FROM cur INTO @LastName, @CreditLimit
WHILE (@@FETCH_STATUS = 0)
BEGIN
   FETCH NEXT FROM cur INTO @LastName, @CreditLimit
END
CLOSE cur
DEALLOCATE cur
```

If the credit limit is zero, you must delete the customer record while fetching data. You need to add the DELETE statement.

Solution: You add the following Transact-SQL statement:

```
IF @CreditLimit = 0
  DELETE Customer
  WHERE CURRENT OF cur
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 3

HOTSPOT

You are creating a database solution to track sales achievements of your training courses. You run the following statements:

```
CREATE TABLE Courses (
  CourseID INT IDENTITY(1,1) NOT NULL,
  Course VARCHAR(50) NULL,
  TrainerEvalScore DECIMAL(18, 0) NULL
)
CREATE TABLE CourseParticipants (
  CourseID INT NOT NULL,
  CourseDate DATE NOT NULL,
  LocationDescription VARCHAR(100) NOT NULL,
  NumParticipants INT NOT NULL
)
```

You plan to add courses to a table named HighlightedCourses. You must add courses that have been delivered to more than 100 participants only.

If the total number of participants for a course is lower than 100, the course must not be added to the HighlightedCourses table. In addition, an error message must be displayed and remaining Transact-SQL code must not run.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
DECLARE @CourseID INT
DECLARE @TotalParticipants INT
SET @CourseID = 1
SET @TotalParticipants = (SELECT SUM(cp.NumParticipant)
FROM Courses c INNER JOIN
CourseParticipants cp ON c.CourseID = cp.CourseID
WHERE c.CourseID = @CourseID
GROUP BY c.CourseID)
PRINT @TotalParticipants
```

▼
BREAK
CONTINUE
RAISERROR ('Course is not admissible.',16,0)
THROW 50000, 'Course is not admissible.',0

▼
IF (@ROWCOUNT > 100)
IF (@TotalParticipants < 100)

Correct Answer:

Answer Area

```
DECLARE @CourseID INT
DECLARE @TotalParticipants INT
SET @CourseID = 1
SET @TotalParticipants = (SELECT SUM(cp.NumParticipant)
FROM Courses c INNER JOIN
CourseParticipants cp ON c.CourseID = cp.CourseID
WHERE c.CourseID = @CourseID
GROUP BY c.CourseID)
PRINT @TotalParticipants
```

▼
BREAK
CONTINUE
RAISERROR ('Course is not admissible.',16,0)
THROW 50000, 'Course is not admissible.',0

▼
IF (@ROWCOUNT > 100)
IF (@TotalParticipants < 100)

QUESTION 4

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 contains a single table named tblVehicleRegistration. The table is defined as follows:

Column name	Data type	Description
VehicleId	int	the primary key for the table
RegistrationNumber	varchar(5)	a vehicle registration number that contains only letters and numbers
RegistrationDate	date	the vehicle registration date
UserId	int	an identifier for the vehicle owner

You run the following query:

```
SELECT UserId FROM tblVehicleRegistration
WHERE RegistrationNumber = 20012
AND RegistrationDate > '2016-01-01'
```

The query output window displays the following error message: "Conversion failed when converting the varchar value `AB012\\' to data type int."

You need to resolve the error.

Solution: You modify the Transact-SQL statement as follows:

```
SELECT UserId FROM tblVehicleRegistration
WHERE CAST(RegistrationNumber AS int) = 20012
AND RegistrationDate > '2016-01-01'
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

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,ProductPrice,ProductsInStock,ProductsOnOrder)
    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
    SET XACT_ABORT ON
    BEGIN TRY
        BEGIN TRANSACTION
            INSERT INTO Products(ProductName,ProductPrice,ProductsInStock,ProductsOnOrder)
            VALUES (@ProductName,@UnitPrice,@UnitsInStock,@UnitsOnOrder)
        COMMIT TRANSACTION
    END TRY
    BEGIN CATCH
        IF XACT_STATE() <> 0 ROLLBACK TRANSACTION
        THROW 51000, 'The product could not be created.', 1
    END CATCH
END
```

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

With X_ABORT ON the INSERT INTO statement and the transaction will be rolled back when an error is raised, it would then not be possible to ROLLBACK it again in the IF XACT_STATE() O ROLLBACK TRANSACTION statement.

Note: A transaction is correctly defined for the INSERT INTO ..VALUES statement, and if there is an error in the transaction it will be caughtant he transaction will be rolled back, finally an error 51000 will be raised.

Note: When SET XACT_ABORT is ON, if a Transact-SQL statement raises a run-time error, the entire transaction is

terminated and rolled back. XACT_STATE is a scalar function that reports the user transaction state of a current running request. XACT_STATE indicates whether the request has an active user transaction, and whether the transaction is capable of being committed.

The states of XACT_STATE are:

0 There is no active user transaction for the current request.

1 The current request has an active user transaction. The request can perform any actions, including writing data and committing the transaction.

2 The current request has an active user transaction, but an error has occurred that has caused the transaction to be classified as an uncommittable transaction.

References:

https://msdn.microsoft.com/en-us/library/ms188792.aspx

https://msdn.microsoft.com/en-us/library/ms189797.aspx

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