(T30)討論SelectInto  
CourseGUID: e48417fc-9db5-4e99-822c-706c5ccef6cc  
=======================================================================  
(T30)討論SelectInto  
=======================================================================  
1. Create Sample Data

2. Select Into

3. Clean up  
=======================================================================

1. Create Sample Data

--========================================================================

--T030\_01\_Create Sample Data

--========================================================================

--If Table exists then DROP it

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA;

        DROP TABLE PersonA;

    END;

GO -- Run the previous command and begins new batch

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'DepartmentA' ) )

    BEGIN

        TRUNCATE TABLE dbo.DepartmentA;

        DROP TABLE DepartmentA;

    END;

GO -- Run the previous command and begins new batch

CREATE TABLE DepartmentA

    (

      ID INT PRIMARY KEY ,

      [Name] NVARCHAR(50)

    );

GO -- Run the previous command and begins new batch

INSERT  INTO DepartmentA

VALUES  ( 1, 'DepartmentA01' );

INSERT  INTO DepartmentA

VALUES  ( 2, 'DepartmentA02' );

INSERT  INTO DepartmentA

VALUES  ( 3, 'DepartmentA03' );

GO -- Run the previous command and begins new batch

CREATE TABLE PersonA

    (

      ID INT PRIMARY KEY ,

      [Name] NVARCHAR(100) ,

      DepartmentID INT FOREIGN KEY REFERENCES DepartmentA ( ID )

    );

GO -- Run the previous command and begins new batch

INSERT  INTO PersonA

VALUES  ( 1, 'Name01', 1 );

INSERT  INTO PersonA

VALUES  ( 2, 'Name02', 3 );

INSERT  INTO PersonA

VALUES  ( 3, 'Name03', 2 );

INSERT  INTO PersonA

VALUES  ( 4, 'Name04', 2 );

INSERT  INTO PersonA

VALUES  ( 5, 'Name05', 1 );

GO -- Run the previous command and begins new batch

SELECT \* FROM PersonA

SELECT \* FROM DepartmentA

GO -- Run the previous command and begins new batch

Graphical user interface, application, table

Description automatically generated with medium confidence

==================================================

2. Select Into

--========================================================================

--T030\_02\_Select Into

--========================================================================

-------------------------------------------------------------------------

--T030\_02\_01

SELECT  \*

INTO    PersonA2

FROM    PersonA;

SELECT  \*

FROM    PersonA2;

/\*

Copy all columns and rows

from existing table

into a new table.

\*/

Table

Description automatically generated

-------------------------------------------------------------------------

--T030\_02\_02

SELECT  \*

INTO    [Sample].dbo.PersonA3

FROM    PersonA;

SELECT  \*

FROM    PersonA3;

/\*

Copy all columns and rows

from existing table

into a new table of other database.

\*/

Table

Description automatically generated

-------------------------------------------------------------------------

--T030\_02\_03

SELECT  ID ,

        [Name]

INTO    PersonA4

FROM    PersonA;

SELECT  \*

FROM    PersonA4;

/\*

Copy selected  columns

from existing table

into a new table.

\*/

-------------------------------------------------------------------------

--T030\_02\_04

SELECT  \*

INTO    PersonA5

FROM    PersonA

WHERE   DepartmentID = 1;

SELECT  \*

FROM    PersonA5;

/\*

Copy selected all columns and selected rows

from existing table

into a new table.

\*/

Graphical user interface

Description automatically generated

-------------------------------------------------------------------------

--T030\_02\_05

SELECT  p.ID ,

        p.[Name] ,

        p.DepartmentID ,

        d.[Name] AS DepartmentName

INTO    PersonA6

FROM    PersonA p

        INNER JOIN DepartmentA d ON p.DepartmentID = d.ID;

SELECT  \*

FROM    PersonA6;

/\*

Join 2 tables

and copy selected columns and all rows

from existing table

into a new table.

\*/

Table

Description automatically generated

-------------------------------------------------------------------------

--T030\_02\_06

SELECT  \*

INTO    PersonA7

FROM    PersonA

WHERE   1 <> 1;

SELECT  \*

FROM    PersonA7;

/\*

Copy the Table Structure into new Table.

The Table structure includes its columns and datatypes.

Do not copy any records from old table into new table

\*/



-------------------------------------------------------------------------

--T030\_02\_07

SELECT  \*

INTO    PersonA8

FROM    [N550JKL\SQL2016].[Sample].[dbo].[PersonA];

SELECT  \*

FROM    PersonA8;

/\*

Copy all columns and all rows

from existing table

into a new table of other database of other SQL server

\*/

Table

Description automatically generated

-------------------------------------------------------------------------

--T030\_02\_08

--INSERT INTO .... SELECT

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA9' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA9;

        DROP TABLE PersonA9;

    END;

GO -- Run the previous command and begins new batch

CREATE TABLE PersonA9

    (

      ID INT PRIMARY KEY ,

      [Name] NVARCHAR(100) ,

      DepartmentID INT

    );

GO -- Run the previous command and begins new batch

INSERT  INTO PersonA9

        ( ID ,

          [Name] ,

          DepartmentID

        )

        SELECT  ID ,

                [Name] ,

                DepartmentID

        FROM    PersonA;

GO -- Run the previous command and begins new batch

SELECT  \*

FROM    PersonA9;

/\*

SELECT INTO can NOT select data into an existing table.

Need to use INSERT INTO .... SELECT.

Syntax

--INSERT INTO ExistingTable (ColumnList...)

--SELECT ColumnList... FROM SourceTable

\*/

Table

Description automatically generated

==================================================

3. Clean up

--========================================================================

--T030\_03\_Clean up

--========================================================================

--If Table exists then DROP it

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA;

        DROP TABLE PersonA;

    END;

GO -- Run the previous command and begins new batch

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'DepartmentA' ) )

    BEGIN

        TRUNCATE TABLE dbo.DepartmentA;

        DROP TABLE DepartmentA;

    END;

GO -- Run the previous command and begins new batch

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA2' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA2;

        DROP TABLE PersonA2;

    END;

GO -- Run the previous command and begins new batch

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA3' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA3;

        DROP TABLE PersonA3;

    END;

GO -- Run the previous command and begins new batch

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA4' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA4;

        DROP TABLE PersonA4;

    END;

GO -- Run the previous command and begins new batch

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA5' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA5;

        DROP TABLE PersonA5;

    END;

GO -- Run the previous command and begins new batch

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA6' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA6;

        DROP TABLE PersonA6;

    END;

GO -- Run the previous command and begins new batch

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA7' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA7;

        DROP TABLE PersonA7;

    END;

GO -- Run the previous command and begins new batch

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA8' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA8;

        DROP TABLE PersonA8;

    END;

GO -- Run the previous command and begins new batch

IF ( EXISTS ( SELECT    \*

              FROM      INFORMATION\_SCHEMA.TABLES

              WHERE     TABLE\_NAME = 'PersonA9' ) )

    BEGIN

        TRUNCATE TABLE dbo.PersonA9;

        DROP TABLE PersonA9;

    END;

GO -- Run the previous command and begins new batch