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FALL 2018 Microsoft SQL Server Database (CPD222)
Professor Shanda-lyn Yaeger
Transacts, Week 13/14
11/20/2018

- A stored procedure to insert a new employee into the table using transaction to check for errors.

```sql
USE NORTHWND

GO

CREATE PROCEDURE sp_InsertEmployee
    @LastName         nvarchar(20),
    @FirstName        nvarchar(10),
    @HireDate         datetime,
    @BirthDate        datetime,
    @Title            nvarchar(30),
    @TitleOfCourtesy  nvarchar(25) = NULL,
    @Address          nvarchar(60) = NULL,
    @City             nvarchar(15) = NULL,
    @Region           nvarchar(15) = NULL,
    @PostalCode       nvarchar(10) = NULL,
    @HomePhone        nvarchar(24) = NULL
AS
BEGIN TRAN
    INSERT INTO Employees(LastName, FirstName, HireDate, BirthDate, Title,
TitleOfCourtesy, Address, City, Region, PostalCode, HomePhone)
    VALUES
    (@LastName,@FirstName,@HireDate,@BirthDate,@Title,@TitleOfCourtesy,@Address,
     @City,@Region,@PostalCode,@HomePhone);
IF @@ERROR <> 0
        BEGIN
          ROLLBACK TRAN
          RETURN 10
        END
    COMMIT TRAN
GO

DECLARE @HireDateVariable datetime
    SET @HireDateVariable = CONVERT(datetime,GETDATE(),120)
EXEC sp_InsertEmployee
    @LastName = 'Halpert',
    @FirstName = 'Jim',
    @HireDate = @HireDateVariable,
    @BirthDate = '04/02/1971',
    @Title = 'Sales',
    @HomePhone = '330-555-5555'
GO
```

Screenshot 1

```
SQLQuery2.sql - IYA...D (IYAD\iyads (56))*  ⊡ ×
    USE NORTHWND
    GO
  ⊟CREATE PROCEDURE sp_InsertEmployee
        @LastName          nvarchar(20), @FirstName        nvarchar(10), @HireDate        datetime, @BirthDate        datetime,
        @Title             nvarchar(30), @TitleOfCourtesy   nvarchar(25) = NULL, @Address         nvarchar(60) = NULL,
        @City              nvarchar(15) = NULL, @Region          nvarchar(15) = NULL, @PostalCode      nvarchar(10) = NULL,
        @HomePhone         nvarchar(24) = NULL
    AS
    BEGIN TRAN
  ⊟    INSERT INTO Employees(LastName, FirstName, HireDate, BirthDate, Title,
        TitleOfCourtesy, Address, City, Region, PostalCode, HomePhone)
        VALUES
        (@LastName,@FirstName,@HireDate,@BirthDate,@Title,@TitleOfCourtesy,@Address,
         @City,@Region,@PostalCode,@HomePhone);
  ⊟IF @@ERROR <> 0
  ⊟        BEGIN
              ROLLBACK TRAN
              RETURN 10
          END
        COMMIT TRAN
    GO
  ⊟DECLARE @HireDateVariable datetime
        SET @HireDateVariable = CONVERT(datetime,GETDATE(),120)
  ⊟EXEC sp_InsertEmployee
        @LastName = 'Halpert',
        @FirstName = 'Jim',
        @HireDate = @HireDateVariable,
        @BirthDate = '04/02/1971',
        @Title = 'Sales',
        @HomePhone = '330-555-5555'
    GO
```

```
93 %  ⊡
⊞ Messages

  (1 row affected)
```

```
93 %  ⊡
⊘ Query executed successfully.     IYAD (14.0 RTM)  IYAD\iyads (56)  NORTHWND  00:00:00  0 rows
```

Screenshot 2

```
SQLQuery2.sql - IYA...D (IYAD\iyads (56))*  ⊡ ×
    USE NORTHWND
    GO
  ⊟CREATE PROCEDURE sp_InsertEmployee
        @LastName          nvarchar(20), @FirstName        nvarchar(10), @HireDate        datetime, @BirthDate        datetime,
        @Title             nvarchar(30), @TitleOfCourtesy   nvarchar(25) = NULL, @Address         nvarchar(60) = NULL,
        @City              nvarchar(15) = NULL, @Region          nvarchar(15) = NULL, @PostalCode      nvarchar(10) = NULL,
        @HomePhone         nvarchar(24) = NULL
    AS
    BEGIN TRAN
  ⊟    INSERT INTO Employees(LastName, FirstName, HireDate, BirthDate, Title,
        TitleOfCourtesy, Address, City, Region, PostalCode, HomePhone)
        VALUES
        (@LastName,@FirstName,@HireDate,@BirthDate,@Title,@TitleOfCourtesy,@Address,
         @City,@Region,@PostalCode,@HomePhone);
  ⊟IF @@ERROR <> 0
  ⊟        BEGIN
              ROLLBACK TRAN
              RETURN 10
          END
        COMMIT TRAN
    GO
  ⊟DECLARE @HireDateVariable datetime
        SET @HireDateVariable = CONVERT(datetime,GETDATE(),120)
  ⊟EXEC sp_InsertEmployee
        @LastName = 'Halpert',
        @FirstName = 'Jim',
        @HireDate = @HireDateVariable,
        @BirthDate = '04/02/1971',
        @Title = 'Sales',
        @HomePhone = '330-555-5555'
    GO
    select * from Employees
```

```
93 %  ⊡
⊞ Results  ⊞ Messages
```

	EmployeeID	LastName	FirstName	Title	TitleOfCourtesy	BirthDate	HireDate	Address	City	Region	PostalCode	Country	HomePhone
10	10	Beesley	Pam	Receptionist	NULL	1972-12-30 00:00:00.000	2018-11-07 12:18:20.900	NULL	NULL	NULL	NULL	NULL	330-555-555
11	11	Halpert	Jim	Sales	NULL	1971-04-02 00:00:00.000	2018-11-20 16:12:51.420	NULL	NULL	NULL	NULL	NULL	330-555-555

```
⊘ Query executed successfully.     IYAD (14.0 RTM)  IYAD\iyads (56)  NORTHWND  00:00:00  11 rows
```