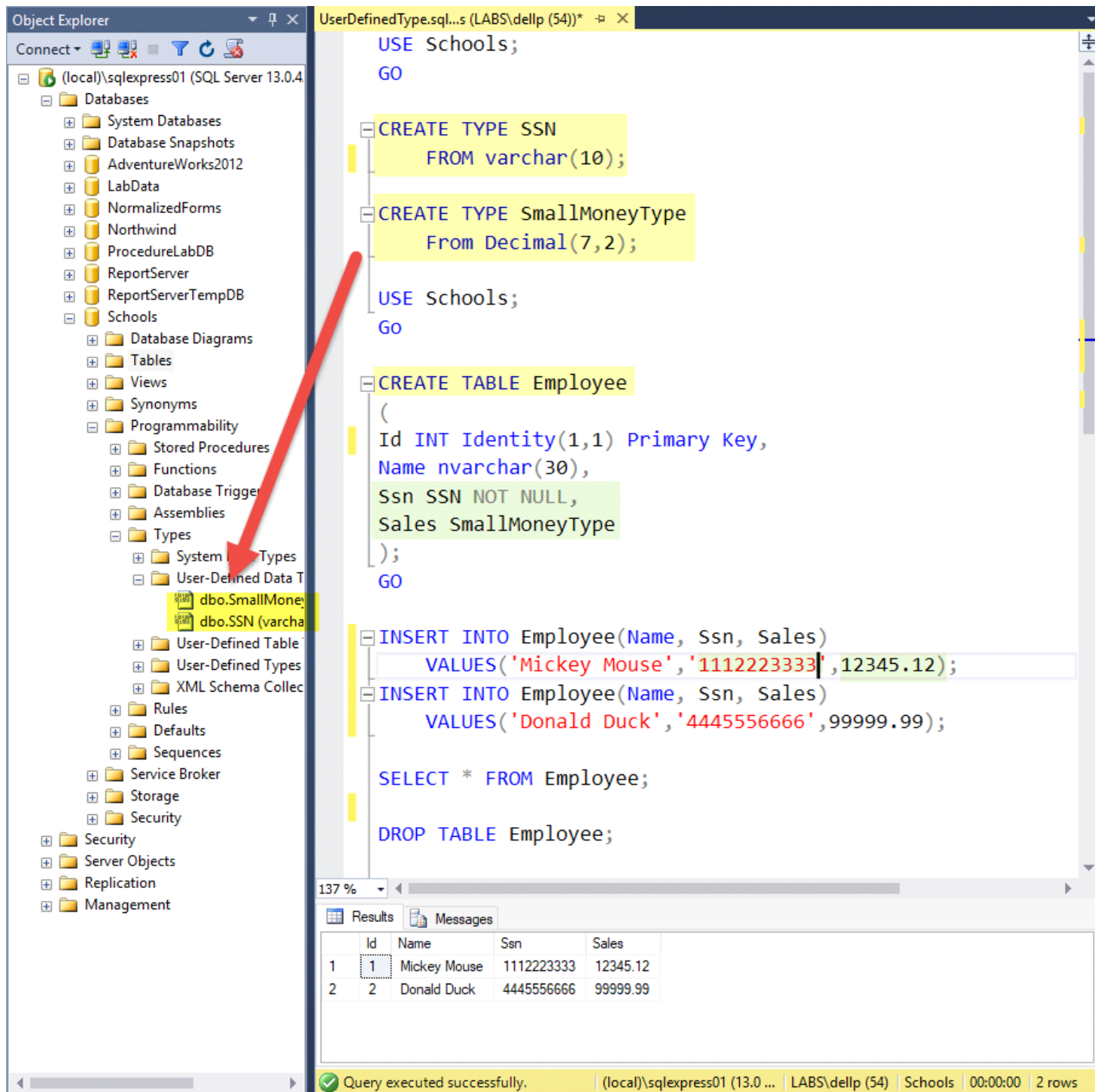


# User Defined Types #1

Sunday, May 21, 2017 1:31 PM

## MODULE 3



The screenshot displays the SQL Server Enterprise Manager interface. On the left, the Object Explorer shows the 'Schools' database selected. A red arrow points to the 'User-Defined Data Types' folder under 'Types'. The main pane shows the following SQL script:

```
USE Schools;
GO

CREATE TYPE SSN
FROM varchar(10);

CREATE TYPE SmallMoneyType
From Decimal(7,2);

USE Schools;
Go

CREATE TABLE Employee
(
  Id INT Identity(1,1) Primary Key,
  Name nvarchar(30),
  Ssn SSN NOT NULL,
  Sales SmallMoneyType
);
GO

INSERT INTO Employee(Name, Ssn, Sales)
VALUES('Mickey Mouse', '1112223333', 12345.12);
INSERT INTO Employee(Name, Ssn, Sales)
VALUES('Donald Duck', '4445556666', 99999.99);

SELECT * FROM Employee;

DROP TABLE Employee;
```

Below the script, the 'Results' tab shows the data inserted into the 'Employee' table:

Id	Name	Ssn	Sales
1	Mickey Mouse	1112223333	12345.12
2	Donald Duck	4445556666	99999.99

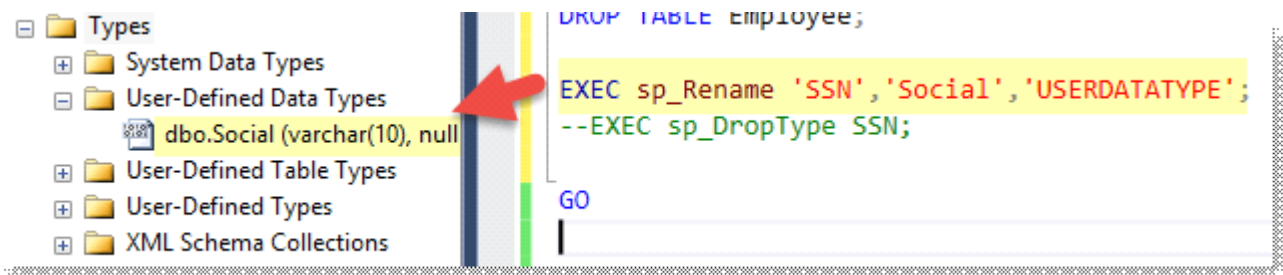
The status bar at the bottom indicates: 'Query executed successfully. (local)\sqlexpress01 (13.0 ... LABS\dellp (54) Schools 00:00:00 2 rows

# Rename-Drop Type #2

Sunday, May 21, 2017 1:39 PM

```
--Step Two
-----
DROP TABLE Employee
EXEC sp_Rename 'SSN','Social','USERDATATYPE';
EXEC sp_DropType Social;
EXEC sp_DropType SmallMoneyType;
GO
```

## Rename Type

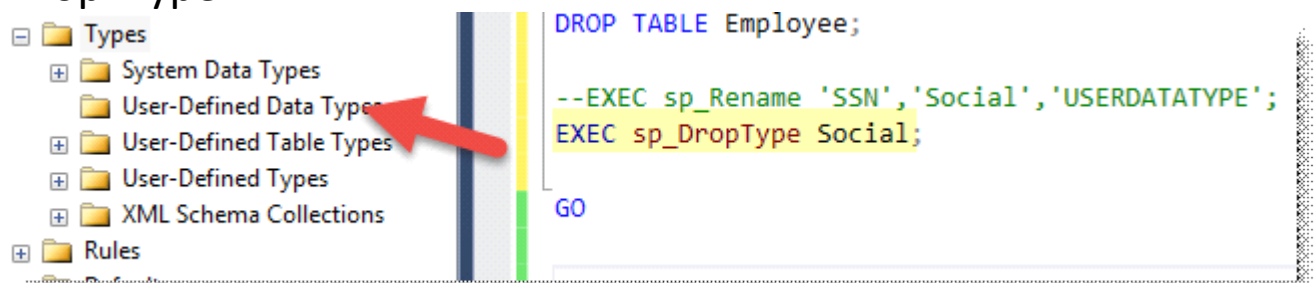


Types

- System Data Types
- User-Defined Data Types
  - dbo.Social (varchar(10), null)
- User-Defined Table Types
- User-Defined Types
- XML Schema Collections

```
DROP TABLE Employee;
EXEC sp_Rename 'SSN','Social','USERDATATYPE';
--EXEC sp_DropType SSN;
GO
```

## Drop Type



Types

- System Data Types
- User-Defined Data Types
- User-Defined Table Types
- User-Defined Types
- XML Schema Collections
- Rules

```
DROP TABLE Employee;
--EXEC sp_Rename 'SSN','Social','USERDATATYPE';
EXEC sp_DropType Social;
GO
```

# Create Table Course

Sunday, May 21, 2017

1:48 PM

## Module 3

SQLQuery8.sql - (lo...ls (LABS\de...lp (55))\*

```
USE Schools;  
GO
```

```
CREATE TABLE Course (  
    ID int,  
    CourseCode int,  
    Name nvarchar(255),  
    Description nvarchar(MAX),  
    StartDate DateTime  
);
```

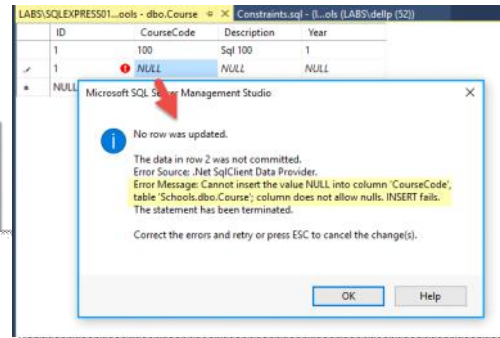
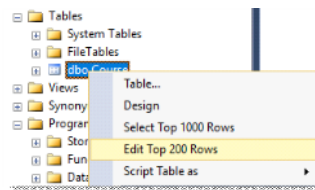
## Add Constraints

Sunday, May 21, 2017 2:05 PM

File: Constraints.sql

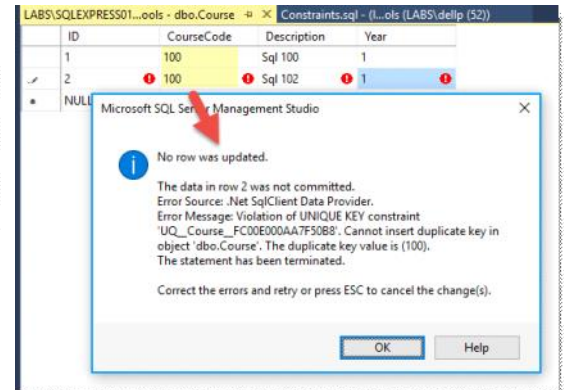
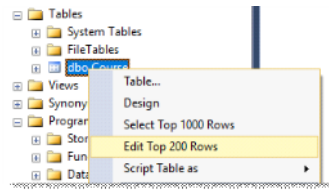
### Null Constraint And Test

```
Constraints.sql - (L:\ols (LABS\delip (32)))  
USE Schools;  
GO  
  
CREATE TABLE Course (  
    ID int NOT NULL,  
    CourseCode int NOT NULL,  
    [Description] nvarchar(255) NOT NULL,  
);
```



### Unique Constraint and Test

```
CREATE TABLE Course (  
    ID int NOT NULL UNIQUE,  
    CourseCode int NOT NULL UNIQUE,  
    [Description] nvarchar(255) NOT NULL,  
);
```



### USE SmallMoney Price Custom Constraint

```
--Add Field  
ALTER TABLE Course  
    Add Year Int  
  
--Add Check Constraint  
ALTER TABLE Course  
    ADD CHECK (Year >= 1);  
GO  
  
--Right Click and EDIT 200 ROWS to TEST
```

