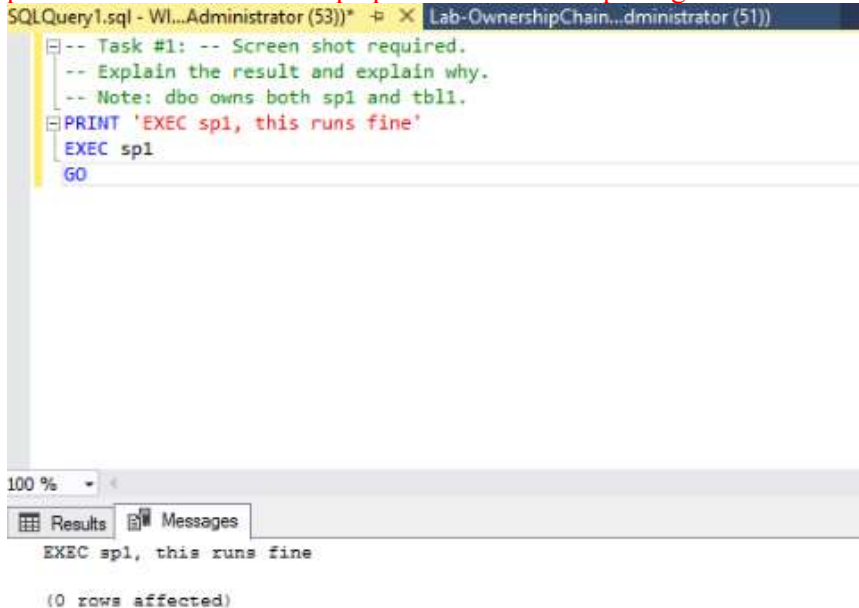# Lab: Ownership Chain

- This is an in-class lab and due tonight.
- Use the following naming convention: homework, underscore, last name, first initial, and extension (e.g., Lab_Ownchain_ImG.docx).

Provide the answers in light of ownership chains.

- (**Task 1**) Show the outcome of this task in a screenshot. Also, explain briefly why you have received the result. The reason this executes successfully is because we executed it as TestUser01 which has permissions to execute the sp1 procedure which is pulling data from tbl1.
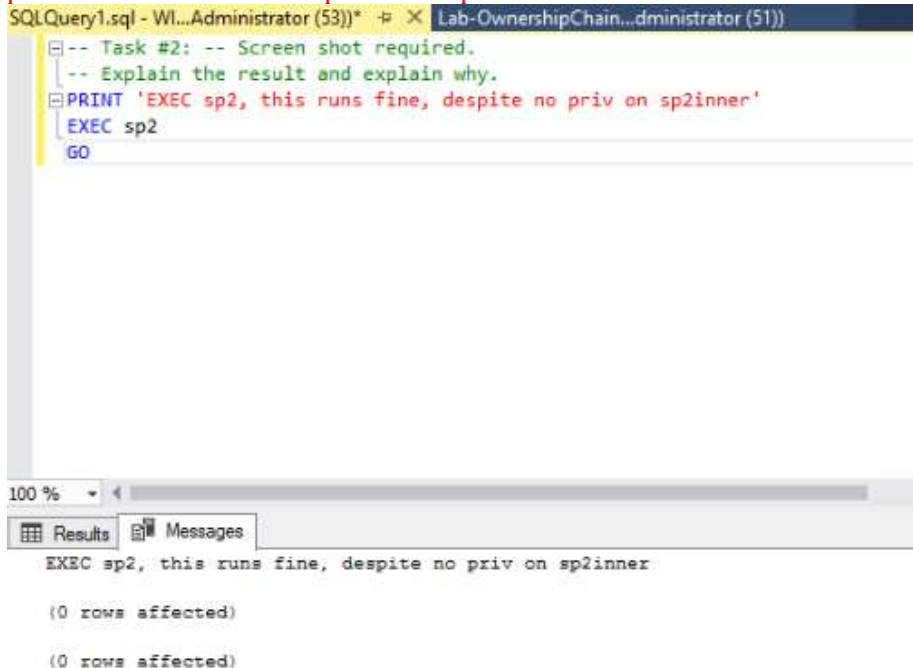
```
SQLQuery1.sql - WI...Administrator (53))*   ⊕ ✕  Lab-OwnershipChain...dministrator (51))
  ⊟-- Task #1: -- Screen shot required.
    -- Explain the result and explain why.
    -- Note: dbo owns both sp1 and tbl1.
  ⊟PRINT 'EXEC sp1, this runs fine'
    EXEC sp1
    GO
```

```
100 %   ▾  ◂
🔲 Results  🗐 Messages
  EXEC sp1, this runs fine

  (0 rows affected)
```

- (**Task 2**) Show the outcome of this task in a screenshot. Also, explain briefly why you have received the result. The reason this executes successfully is because we executed it as TestUser01 which has permissions to execute the procedure sp2.

```
SQLQuery1.sql - WI...Administrator (53))*   ⊕ ✕  Lab-OwnershipChain...dministrator (51))
  ⊟-- Task #2: -- Screen shot required.
    -- Explain the result and explain why.
  ⊟PRINT 'EXEC sp2, this runs fine, despite no priv on sp2inner'
    EXEC sp2
    GO
```

```
100 %   ▾  ◂
🔲 Results  🗐 Messages
  EXEC sp2, this runs fine, despite no priv on sp2inner

  (0 rows affected)

  (0 rows affected)
```

- (**Task 3**) Show the outcome of this task in a screenshot. Also, explain briefly why you have received the result. The reason this fails to execute is because we executed it as TestUser01 which does not have permission to specifically execute sp2inner. TestUser1 was granted execution permissions to run sp2 which contains sp2inner. sp2procowner is a procedure that gives Procowner1 permissions to execute sp2inner.

```
SQLQuery1.sql - WI...Administrator (53))*  + X  Lab-OwnershipChain...dministrator (51))
    -- Task #3: -- Screen shot required.
    -- Explain the results and explain why.
  PRINT 'EXEC sp2ProcOwner, two permission errors'
    EXEC sp2ProcOwner
    GO
```

```
100 %   ▾  ◂
Messages
    EXEC sp2ProcOwner, two permission errors
    Msg 229, Level 14, State 5, Procedure sp2ProcOwner, Line 3 [Batch Start Line 0]
    The SELECT permission was denied on the object 'tbl2', database 'OwnershipChainTes
    Msg 229, Level 14, State 5, Procedure sp2inner, Line 1 [Batch Start Line 0]
    The EXECUTE permission was denied on the object 'sp2inner', database 'OwnershipCha
```

- (**Task 4**) Show the outcome of this task in a screenshot. Also, explain briefly why you have received the result. sp3 queries data from tbl3 and TableOwner1 is assigned ownership of that table. This prevents TestUser01 from using sp3 because they are not the owner.

```
SQLQuery1.sql - WI...Administrator (53))*  + X  Lab-OwnershipChain...dministrator (51))
    -- Task #4: -- Screen shot required.
    -- Explain the result and explain why.
  PRINT 'EXEC sp3, permission error'
    EXEC sp3
    GO
```
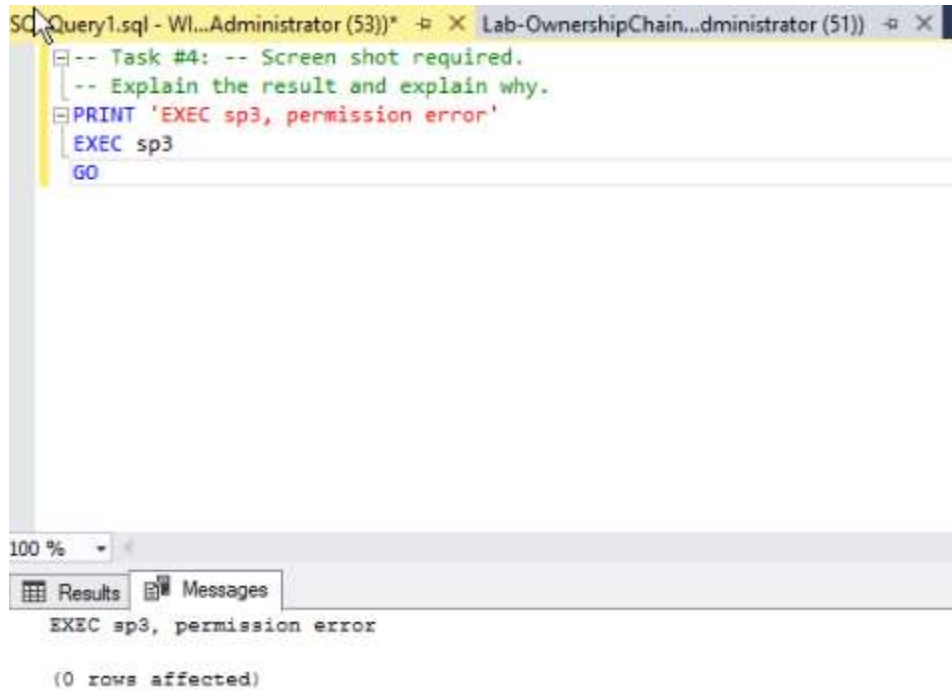
```
100 %   ▾  ◂
Messages
    EXEC sp3, permission error
    Msg 229, Level 14, State 5, Procedure sp3, Line 3 [Batch Start Line 0]
    The SELECT permission was denied on the object 'tbl3', database 'OwnershipChainTes
```

- (**Task 5**) Show the outcome of this task in a screenshot. Also, explain briefly why the result is different from the one from Task #4? Task 4 ran successfully because we used the administrator account instead of TestUser01.

```
SQ Query1.sql - WI...Administrator (53))*  ⊕ ✕  Lab-OwnershipChain...dministrator (51))  ⊕ ✕
     ⊟-- Task #4: -- Screen shot required.
       -- Explain the result and explain why.
     ⊟PRINT 'EXEC sp3, permission error'
       EXEC sp3
       GO
```

100 % ▾

| Results | Messages |

```
EXEC sp3, permission error

(0 rows affected)
```