Homework #6: User Management

- This is an individual assignment, and is worth 20 points.
- The due date is Monday, March 22, 2021.
- The database for the assignment (**AdventureWorks2016CTP3**) is installed on our Proxmox server. You are to download this document after you login to the Proxmox server.
- You should answer the questions in blue.
- You will get deductions if the requested screenshots are not provided.
- Please zoom in your output. I will penalize you if your screenshots are too small.

Task #4. Assigning User Mappings to Fixed Database Roles

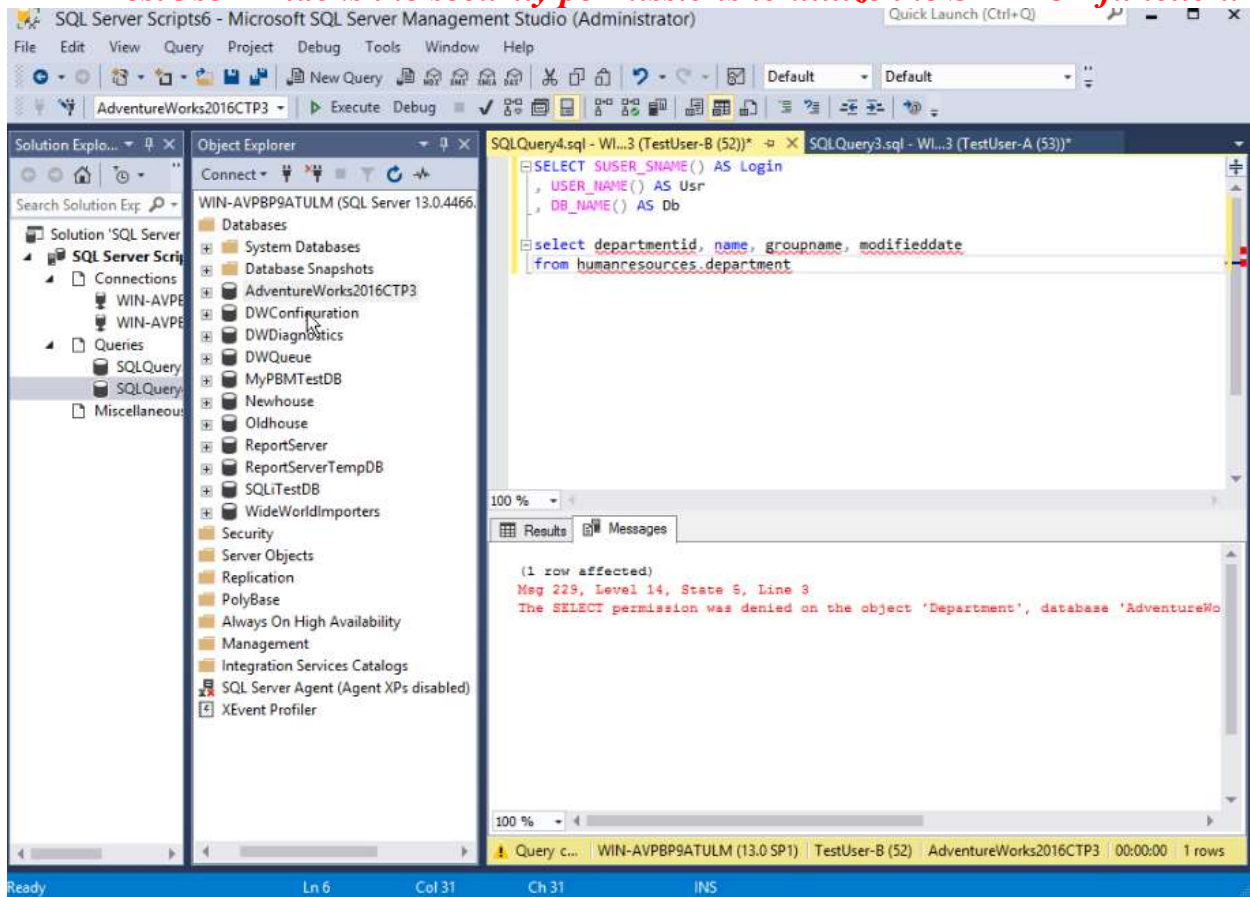### A. Assigning a user to a database role

B. Verifying the results

5) Does it fail? Show the result in a screenshot. Describe your observation and explain why it fails.

- *TestUser-A lacks the security permissions to utilize the INSERT function.*
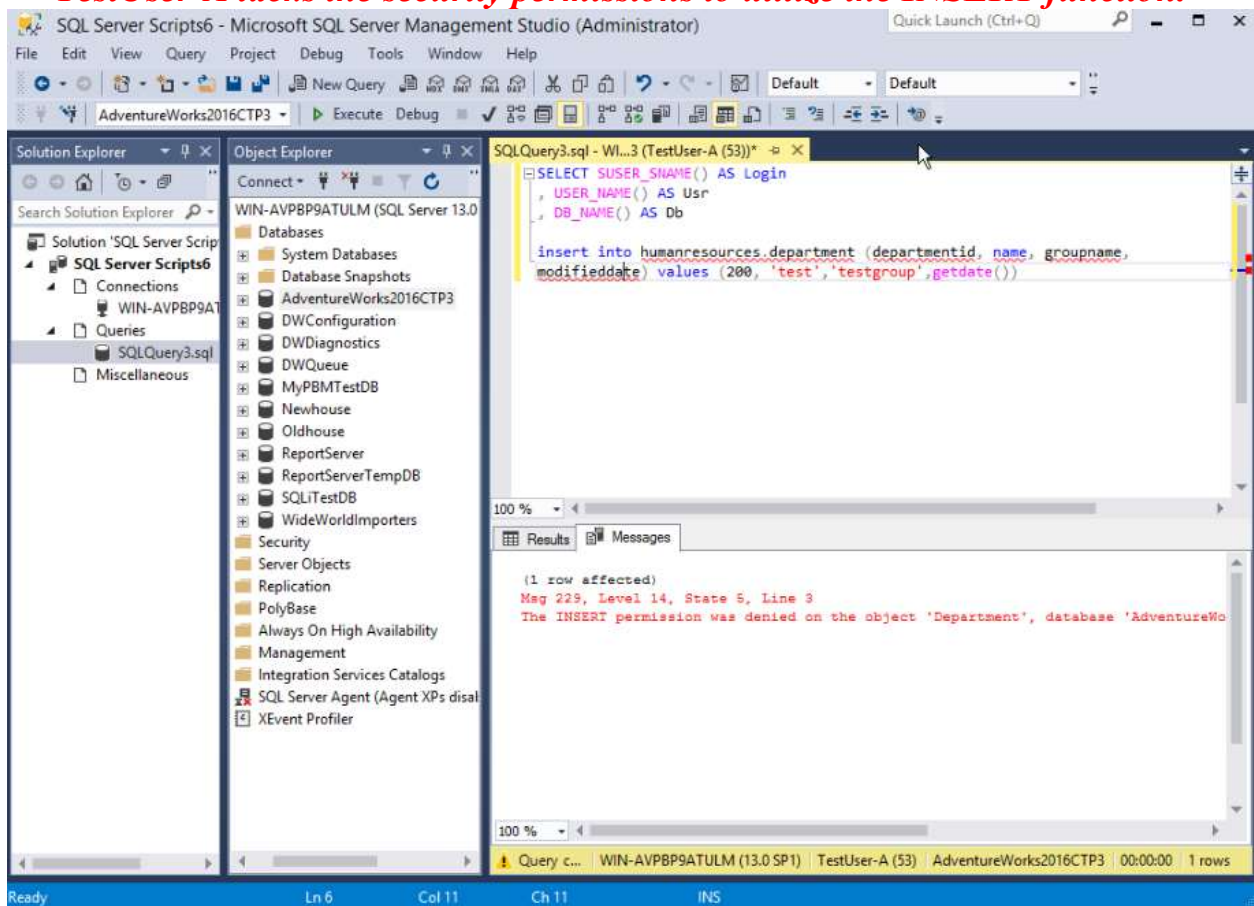
10) Does it fail? Show the result in a screenshot. Describe your observation and explain why it fails.

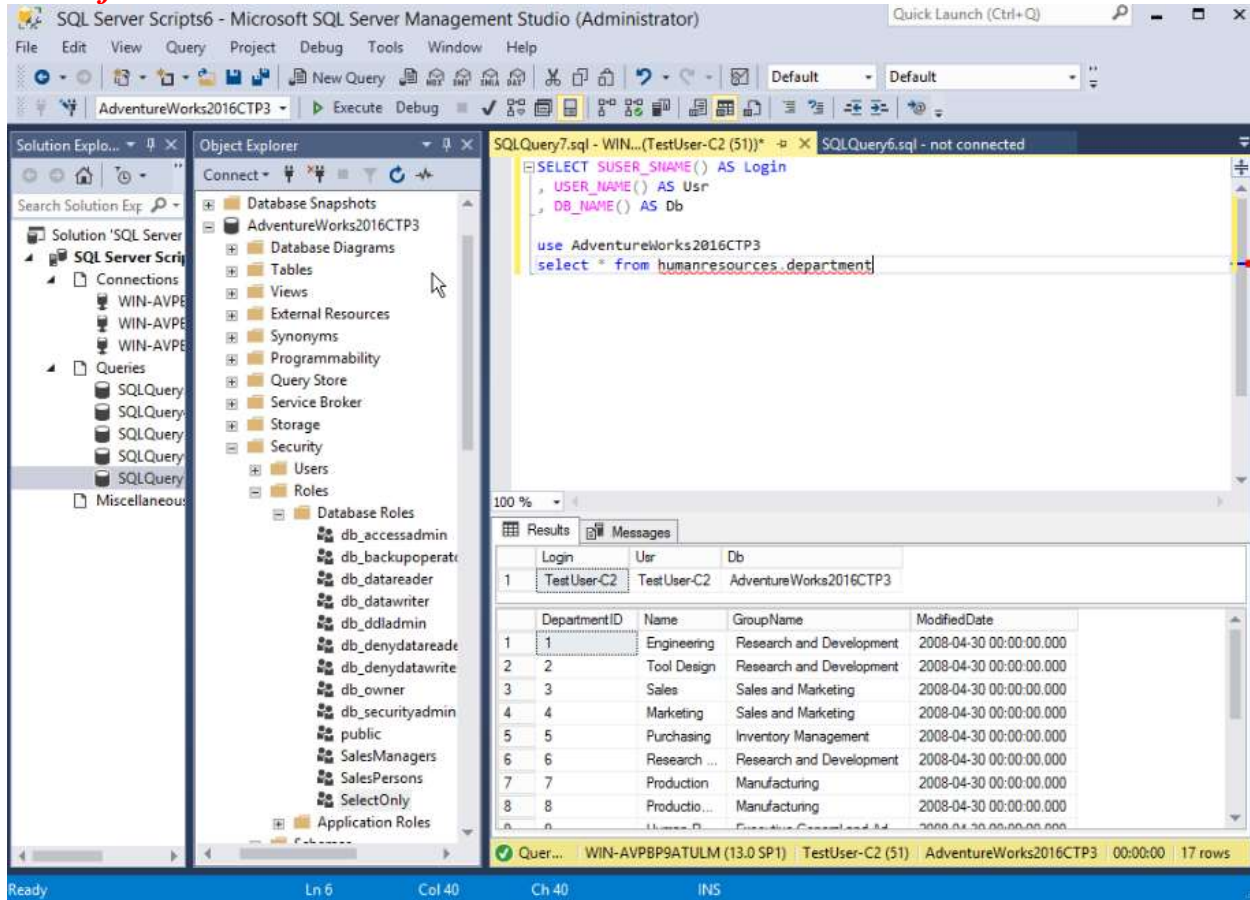- ***TestUser-B lacks the security permissions to utilize the SELECT function.***

Task #5. Creating a Custom Database Role

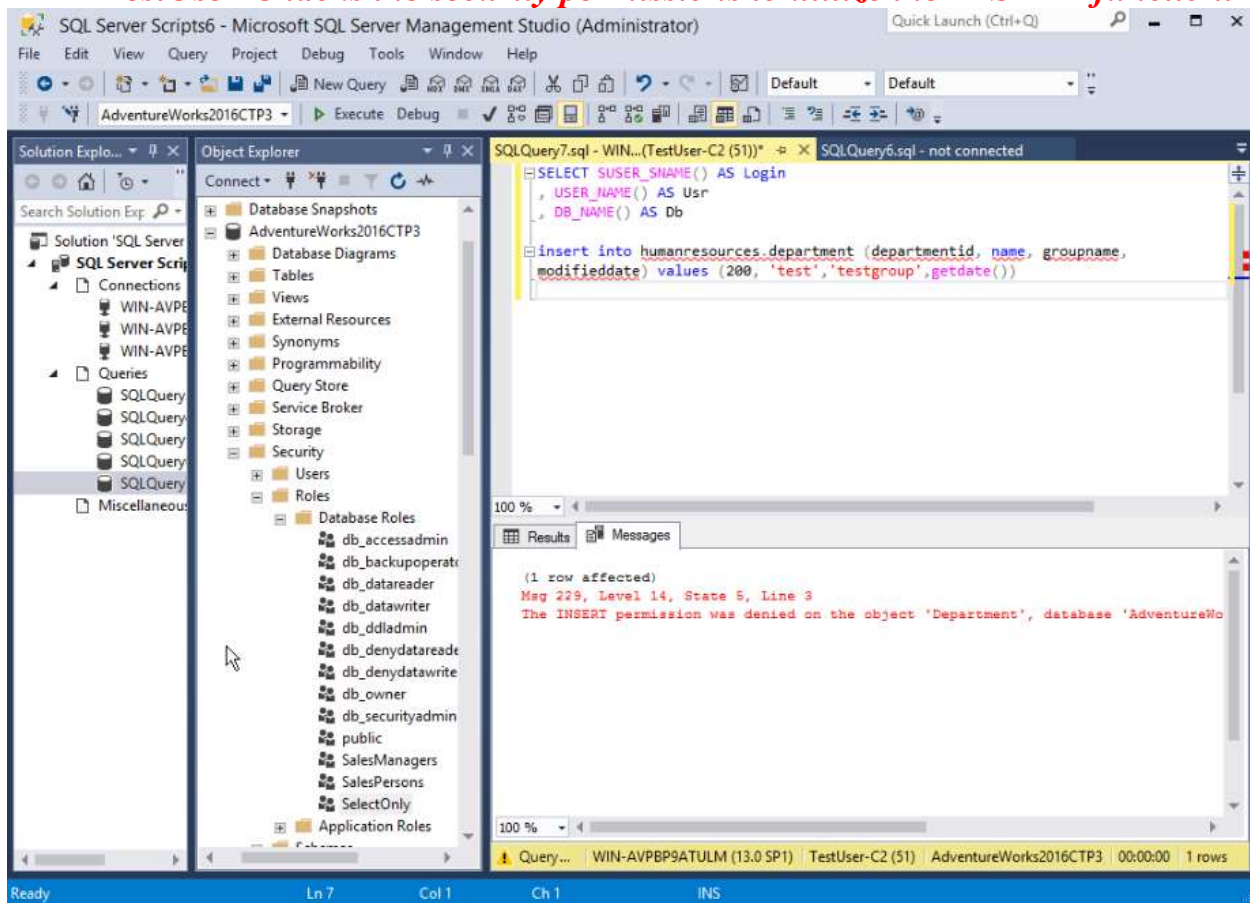**A. Creating a custom database role**

B. Verifying results

4) Does it work? Show the result in a screenshot. Describe your observation and explain why it works.

- ***TestUser-C possesses the security permissions to utilize the SELECT function.***

5) Does it fail? Show the result in a screenshot. Describe your observation and explain why it fails.

- ***TestUser-C lacks the security permissions to utilize the INSERT function.***

Task #6. Creating an Application Role

A. Creating an Application Role

B. Verifying Results

2) Does it fail? Show the result in a screenshot. Describe your observation and explain why it fails.

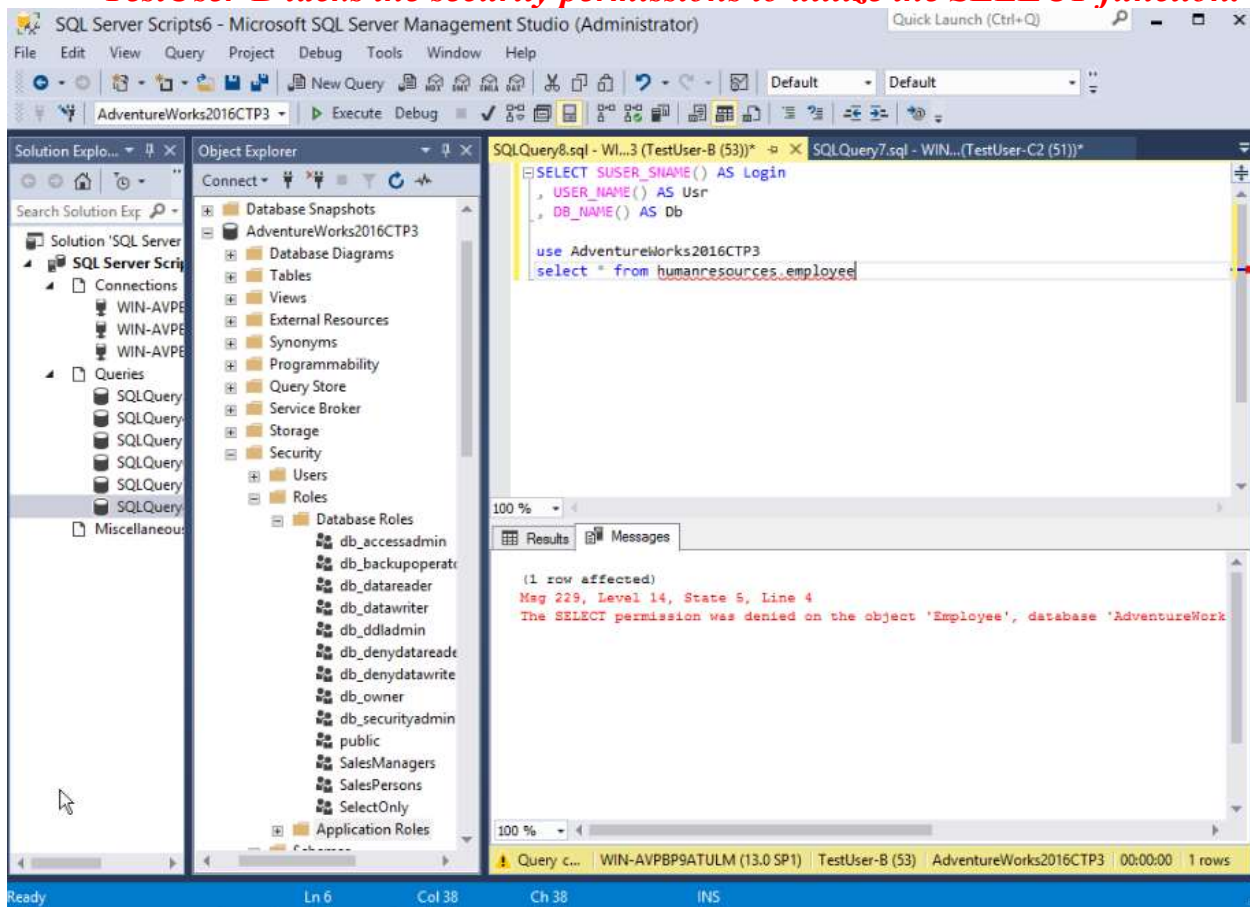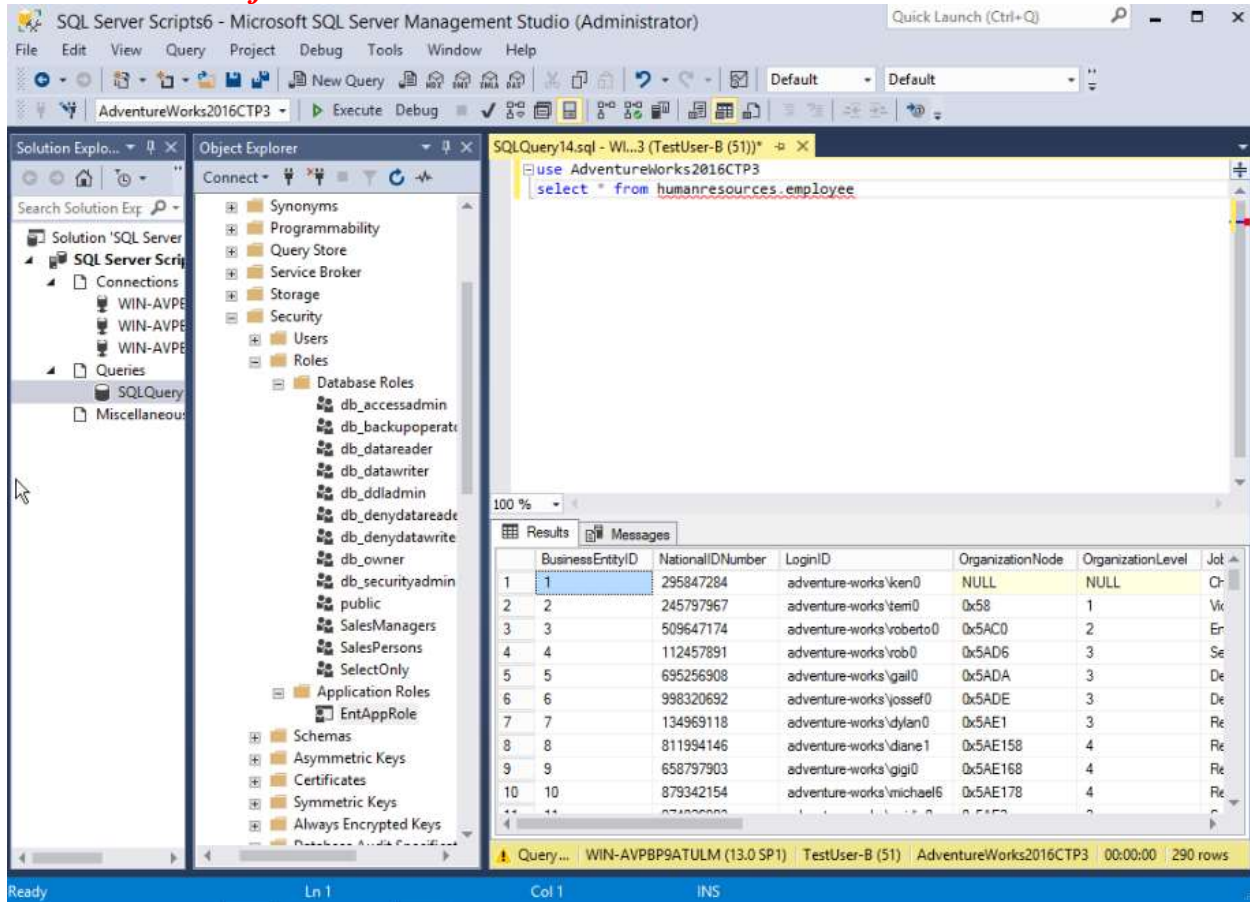- ***TestUser-B lacks the security permissions to utilize the SELECT function.***

4) Does it work? Show the result in a screenshot. You have to click on Results to view the results. Describe your observation and explain why it works.
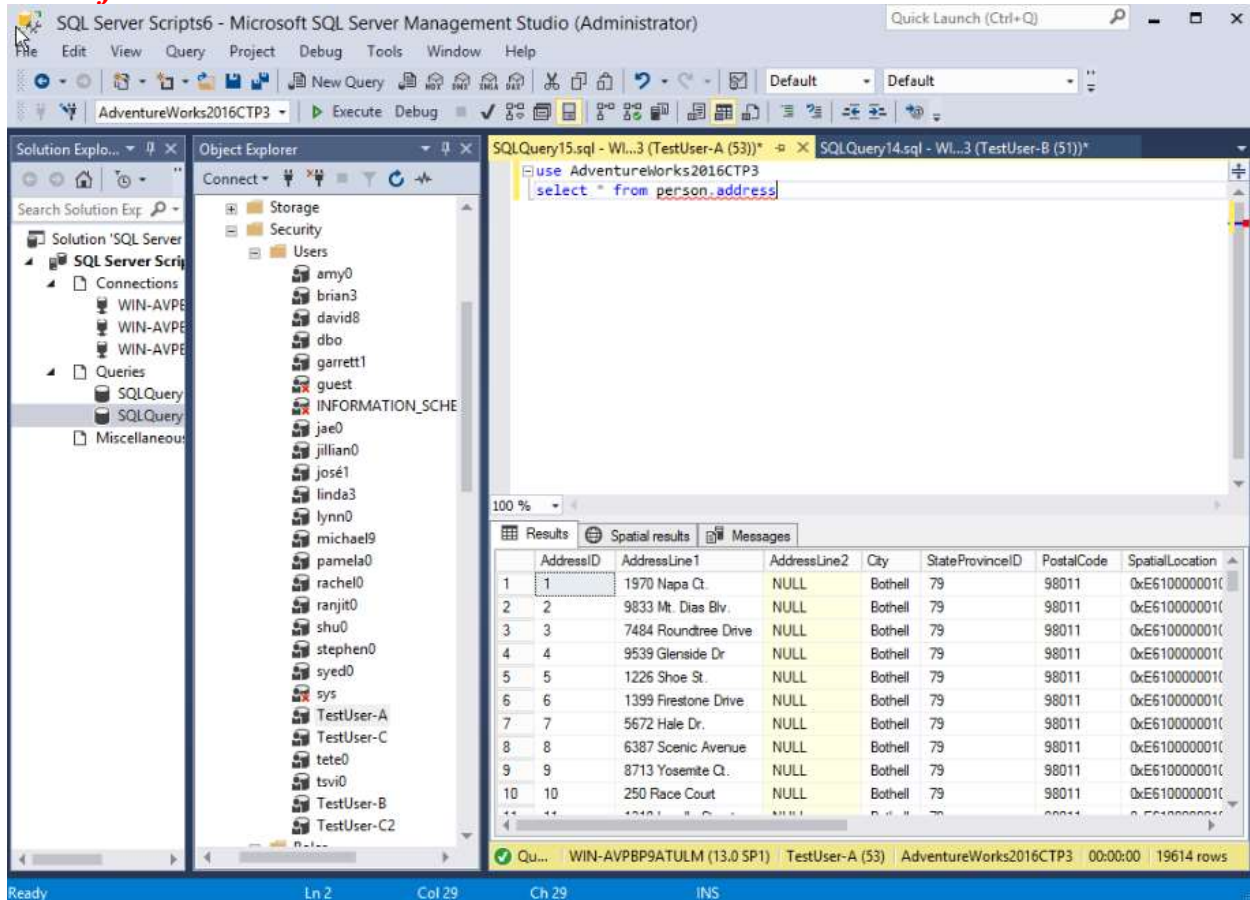
- ***TestUser-B is granted a role that includes granted permission to use the SELECT function.***
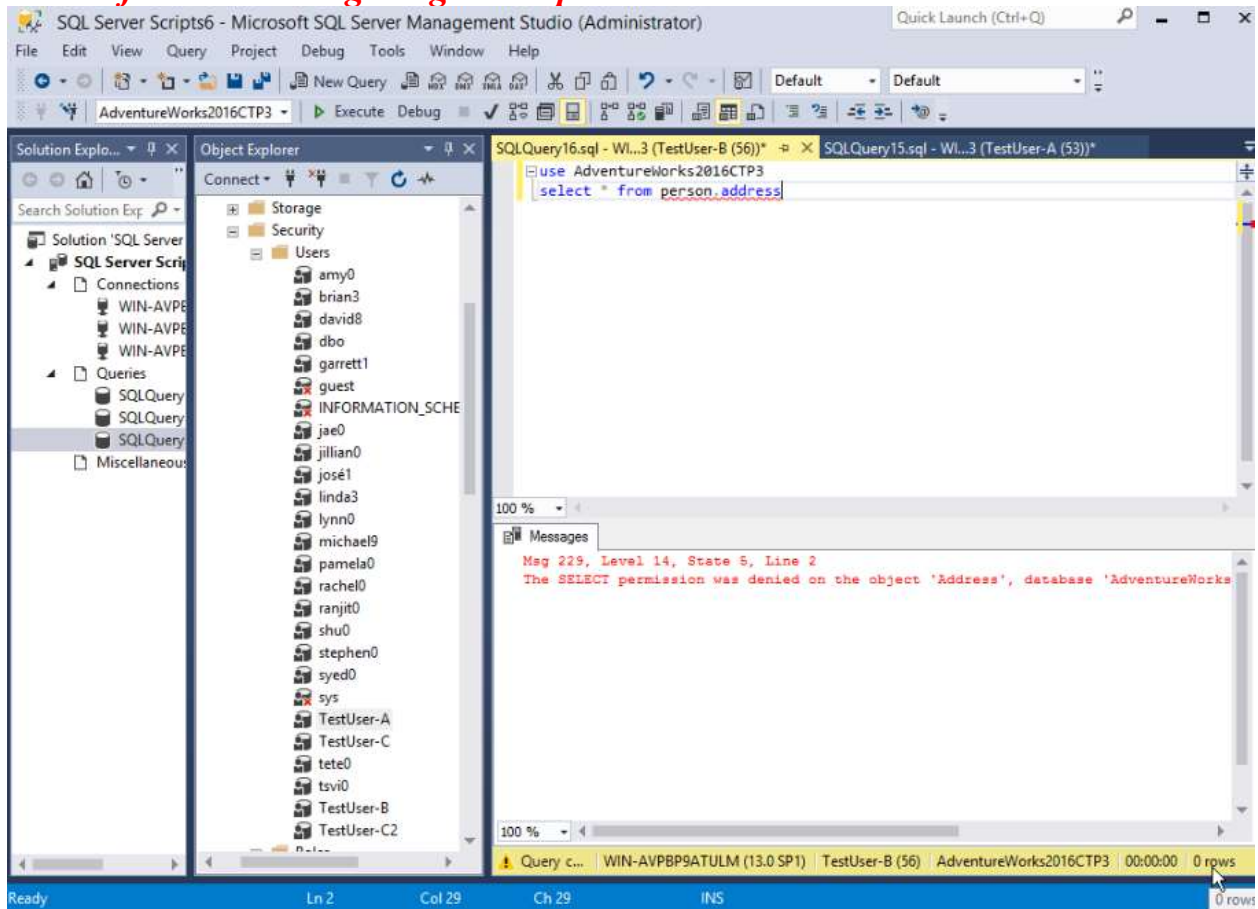

Task #7. Assigning Permissions

9) Does it work? Show the result in a screenshot. Describe your observation and explain why it works.

- ***TestUser-A possesses the security permissions to utilize the SELECT function.***
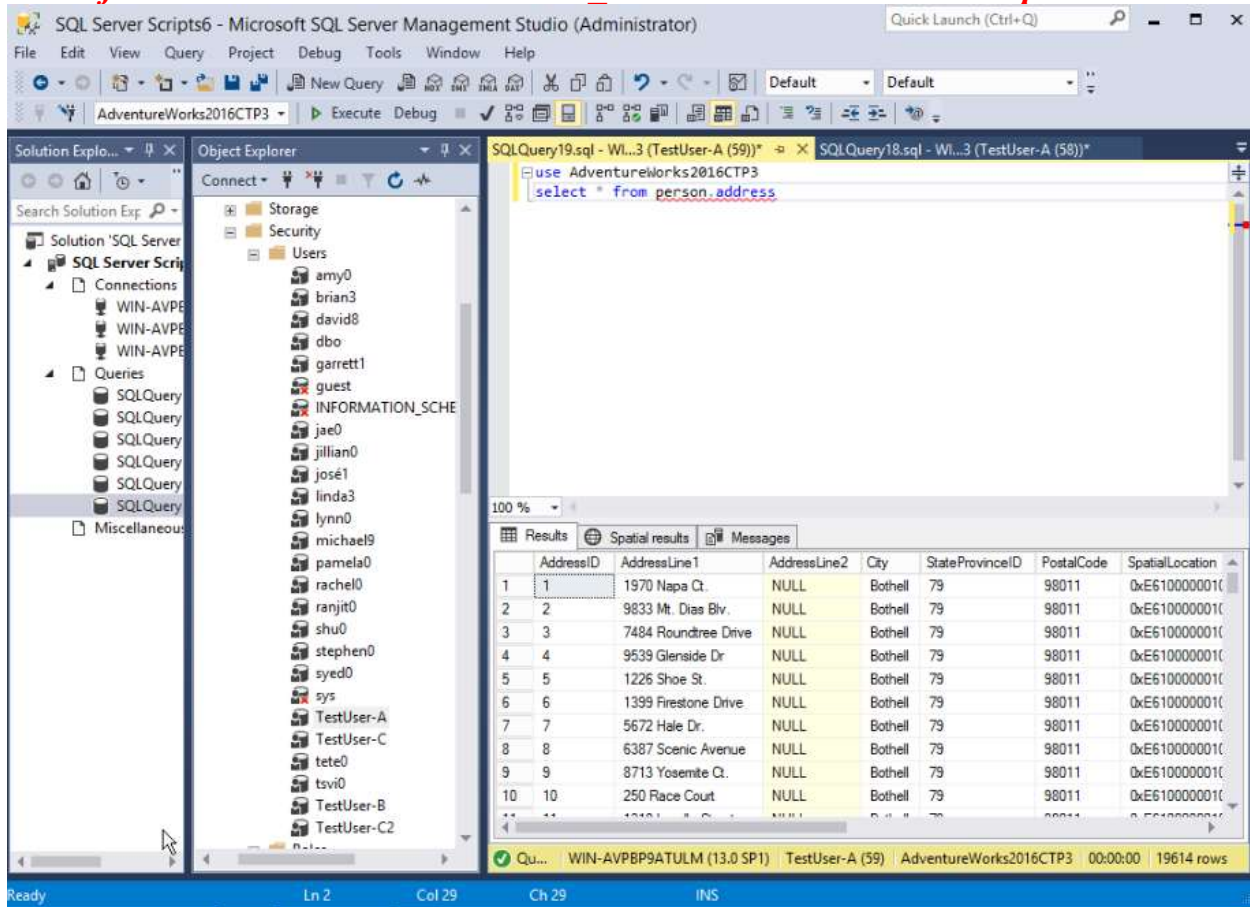

13) Run the previous query. Show the result in a screenshot. Describe your observation and explain why it fails.

- ***TestUser-A lacks the security permissions to utilize the SELECT function after unchecking the granted permission.***

15) Run the previous query. Show the result in a screenshot. Describe your observation and explain why it works.

- ***TestUser-A possesses the security permissions to utilize the SELECT function because we added a db_datareader role membership.***

19) Run the previous query. Show the result in a screenshot. Describe your observation and explain why it fails.

- ***TestUser-A lacks the security permissions to utilize the SELECT function because we denied this permission.***