# Homework #6: User Management

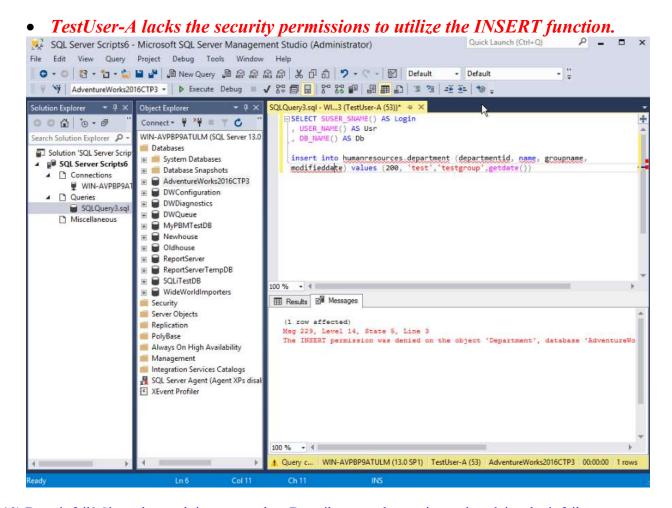
- This is an individual assignment, and is worth 20 points.
- The due date is Monday, March 22, 2021.
- The database for the assignment (**AdventureWorks2016CTP3**) is installed on our Proxmox server. You are to download this document after you login to the Proxmox server.
- You should answer the questions 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

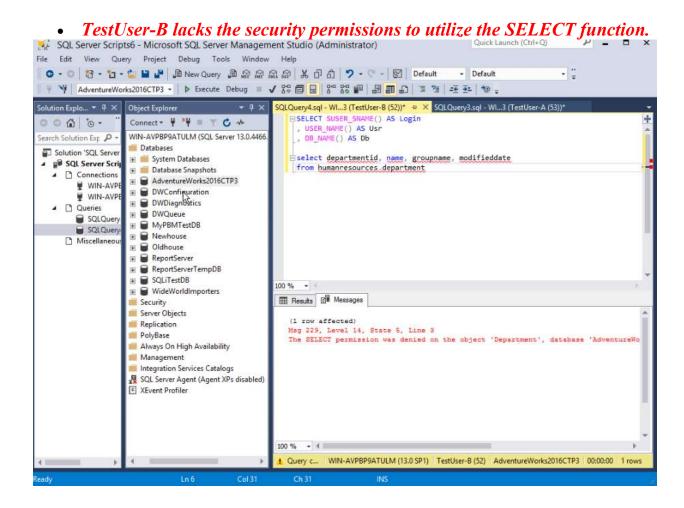
#### A. Assigning a user to a database role

#### **B.** Verifying the results

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



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



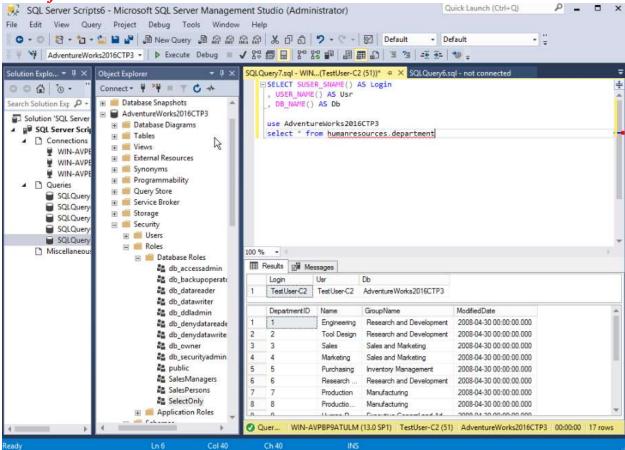
Task #5. Creating a Custom Database Role

## 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. SQL Server Scripts6 - Microsoft SQL Server Management Studio (Administrator) File Edit View Query Project Debug Tools Window Help ○ - ○ 計 - 1 - 2 ■ 1 A Mew Query A A A A A A A A A D A フ - C - 図 Default - Default ₩ AdventureWorks2016CTP3 - Þ Execute Debug 🔳 🗸 🕾 🗐 🔒 🕾 🛍 🗐 🕮 🔝 🖺 🗃 🖎 😉 🛬 🐿 💂 ▼ # × SQLQuery7.sql - WIN...(TestUser-C2 (51))\* → × SQLQuery6.sql - not connected SELECT SUSER\_SNAME() AS Login 0000 Connect - # \*# = ▼ C -\* USER NAME() AS USE Database Snapshots Search Solution Exp 🔎 DB\_NAME() AS Db ■ AdventureWorks2016CTP3 Solution 'SQL Server # | Database Diagrams insert into humanresources.department (departmentid, name, groupname, g SQL Server Scri modifieddate) values (200, 'test', 'testgroup', getdate()) ■ Connections F / Views WIN-AVP External Resources WIN-AVPE Synonyms WIN-AVP 🖫 🕮 Programmability Queries E @ Query Store **■** SQLQuery Service Broker SQLQuery E Storage SQLQuery E Security SQLQuery ⊞ **U**sers SQLQuery Miscellaneou 🗏 📕 Database Roles Results Messages db\_accessadmin ab\_backupoperate (1 row affected) & db\_datareader Mag 229, Level 14, State 5, Line 3
The INSERT permission was denied on the object 'Department', database 'AdventureWo db\_datawriter ab\_ddladmin å db\_denydatareade ab\_denydatawrite a db\_owner & db\_securityadmin public public SalesManagers SalesPersons SelectOnly 100 % + 4 Application Roles WIN-AVPBP9ATULM (13.0 SP1) TestUser-C2 (51) AdventureWorks2016CTP3 00:00:00 1 rows

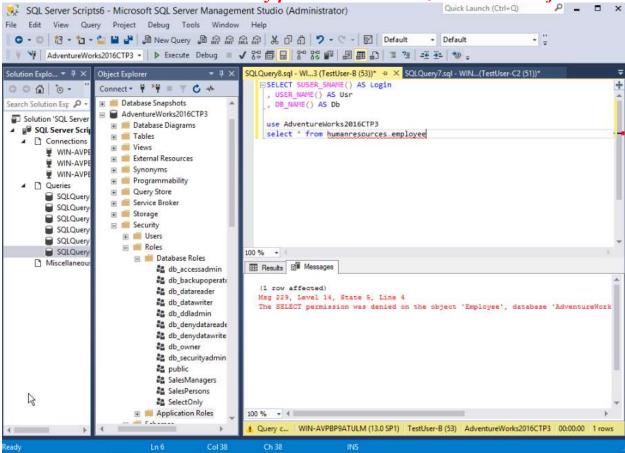
# Task #6. Creating an Application Role

## A. Creating an Application Role

## **B.** Verifying Results

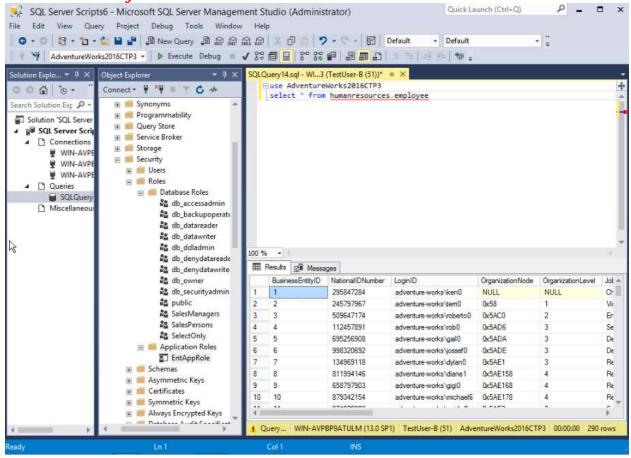
2) Does it fail? Show the result in a screenshot. Describe your observation and explain why it fails.

• 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.

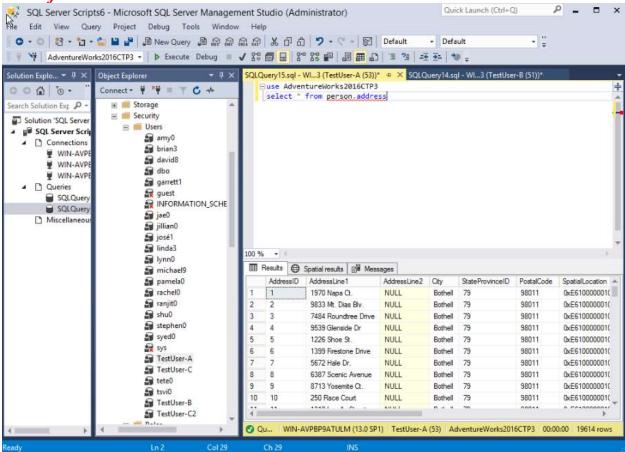
• TestUser-B is granted a role that includes granted permission to use the SELECT function.



Task #7. Assigning Permissions

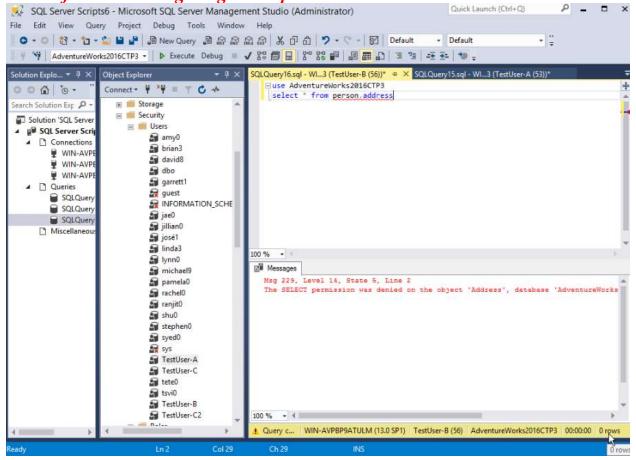
9) Does it work? Show the result in a screenshot. Describe your observation and explain why it works.

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



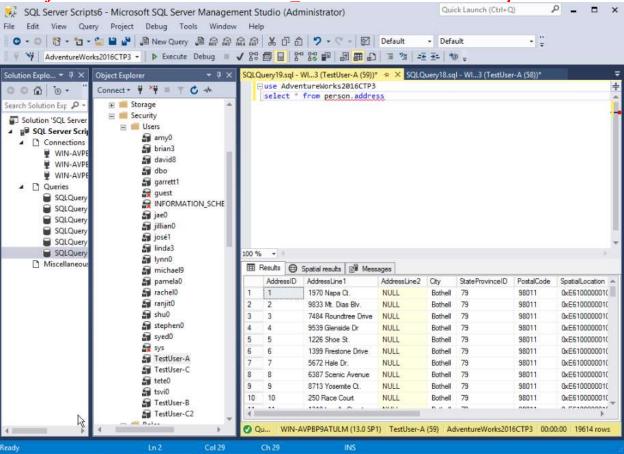
13) Run the previous query. Show the result in a screenshot. Describe your observation and explain why it fails.

• 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.

