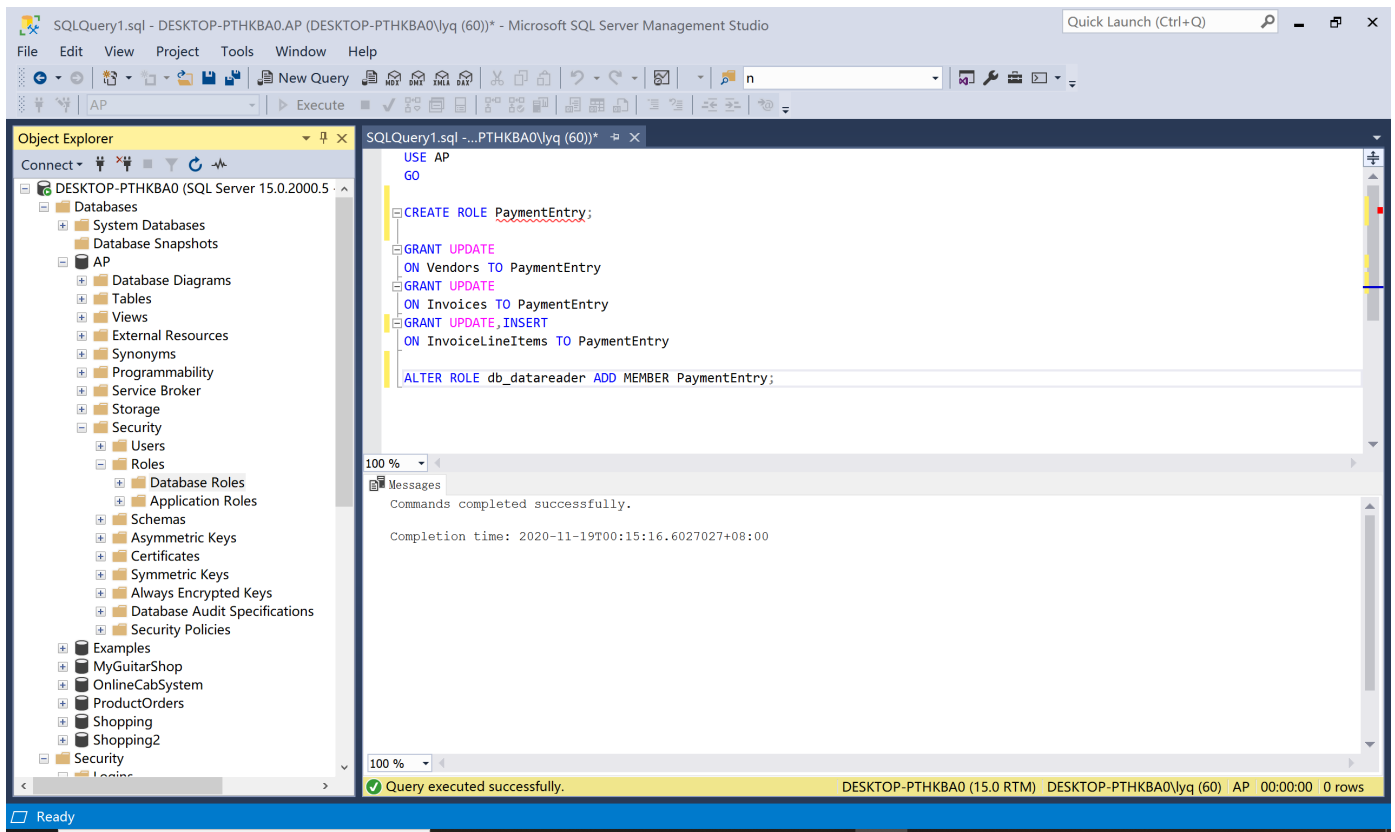
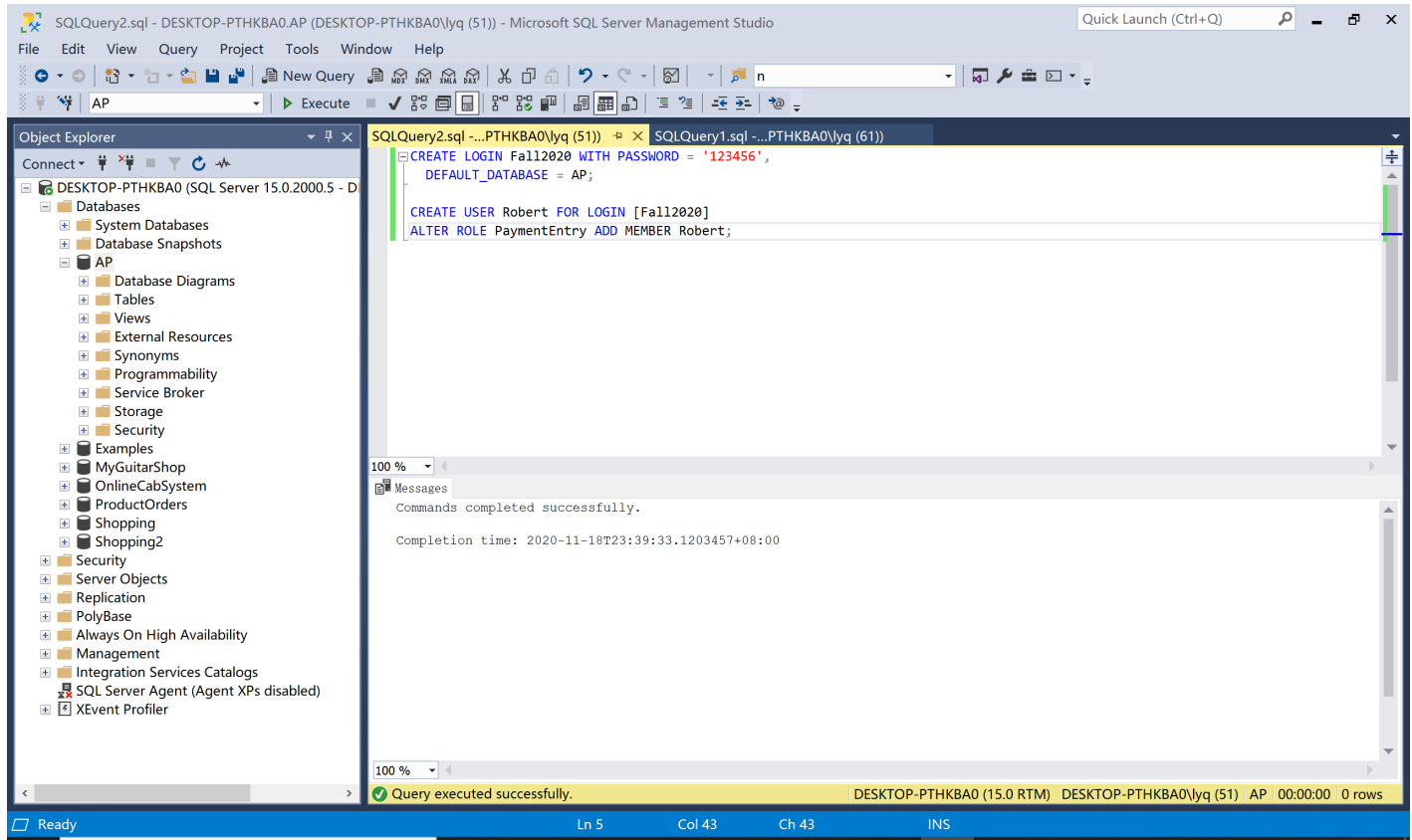


Lab 11: Server Security

1. Write a script that creates a user-defined database role named PaymentEntry in the AP database. Give UPDATE permission to the new role for the Vendors and Invoices table, UPDATE and INSERT permission for the InvoiceLineItems table, and SELECT permission for all user tables.



2. Write a script that (1) creates a login ID named “Fall2020” with the password “123456”; (2) sets the default database for the login to the AP database; (3) creates a user named “Robert” for the login; and (4) assigns the user to the PaymentEntry role you created in question 1.



3. Using the Management Studio (do not write a query), create a login ID named “DBMSFALL2020” with the password “Fall0202” and set the default database to the AP database. Then, grant the login ID access to the AP database, create a user for the login ID named “Fall” and assign the user to the PaymentEntry role you created in question 1.

Login - New

Select a page

- General
- Server Roles
- User Mapping
- Securables
- Status

Script ? Help

Login name: DBMSFALL2020 Search...

☐ Windows authentication

☒ SQL Server authentication

Password: [Masked]

Confirm password: [Masked]

☐ Specify old password

Old password: [Empty]

☒ Enforce password policy

☒ Enforce password expiration

☒ User must change password at next login

☐ Mapped to certificate [Dropdown]

☐ Mapped to asymmetric key [Dropdown]

☐ Map to Credential [Dropdown] Add

Mapped Credentials

Credential	Provider
------------	----------

Remove

Default database: AP [Dropdown]

Default language: <default> [Dropdown]

Server: DESKTOP-PTHKBA0

Connection: DESKTOP-PTHKBA0\lyq

[View connection properties](#)

Progress

Ready

OK Cancel

Login Properties - DBMSFALL2020

Select a page

General

Server Roles

User Mapping

Securables

Status

Script

Help

Users mapped to this login:

M...	Database	User	Default Schema
<input checked="" type="checkbox"/>	AP	DBMSFALL2020	dbo
<input type="checkbox"/>	Examples		
<input type="checkbox"/>	master		
<input type="checkbox"/>	model		
<input type="checkbox"/>	msdb		
<input type="checkbox"/>	MyGuitarShop		
<input type="checkbox"/>	OnlineCabSystem		
<input type="checkbox"/>	ProductOrders		
<input type="checkbox"/>	Shopping		
<input type="checkbox"/>	Shopping2		
<input type="checkbox"/>	tempdb		

☐ Guest account enabled for: AP

Database role membership for: AP

☐ db_backupoperator

☐ db_datareader

☐ db_datawriter

☐ db_ddladmin

☐ db_denydatareader

☐ db_denydatawriter

☒ db_owner

☐ db_securityadmin

☒ PaymentEntry

☒ public

OK

Cancel

Connection

Server:
DESKTOP-PTHKBA0

Connection:
DESKTOP-PTHKBA0\lyq

View connection property

Progress

Ready

Database User - New

Select a page

General

Owned Schemas

Membership

Securables

Extended Properties

Script

Help

User type:
SQL user with login

User name:
Fall

Login name:
DBMSFALL2020

Default schema:
dbo

Connection

Server:
DESKTOP-PTHKBA0

Connection:
DESKTOP-PTHKBA0\lyq

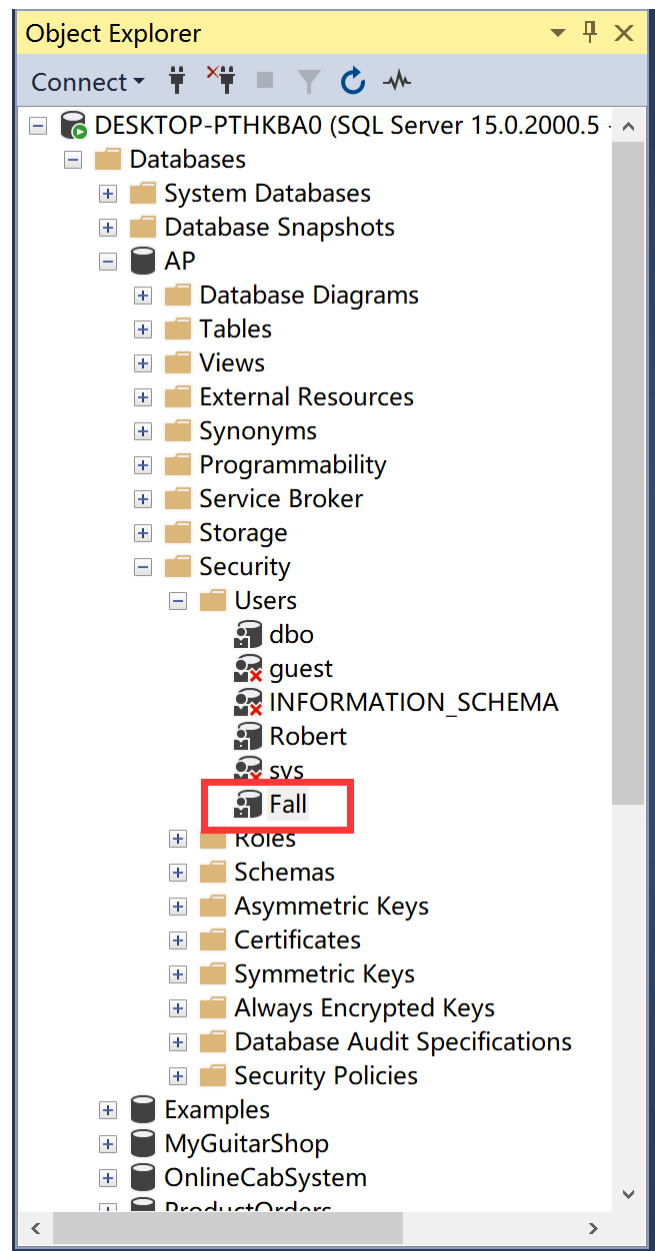
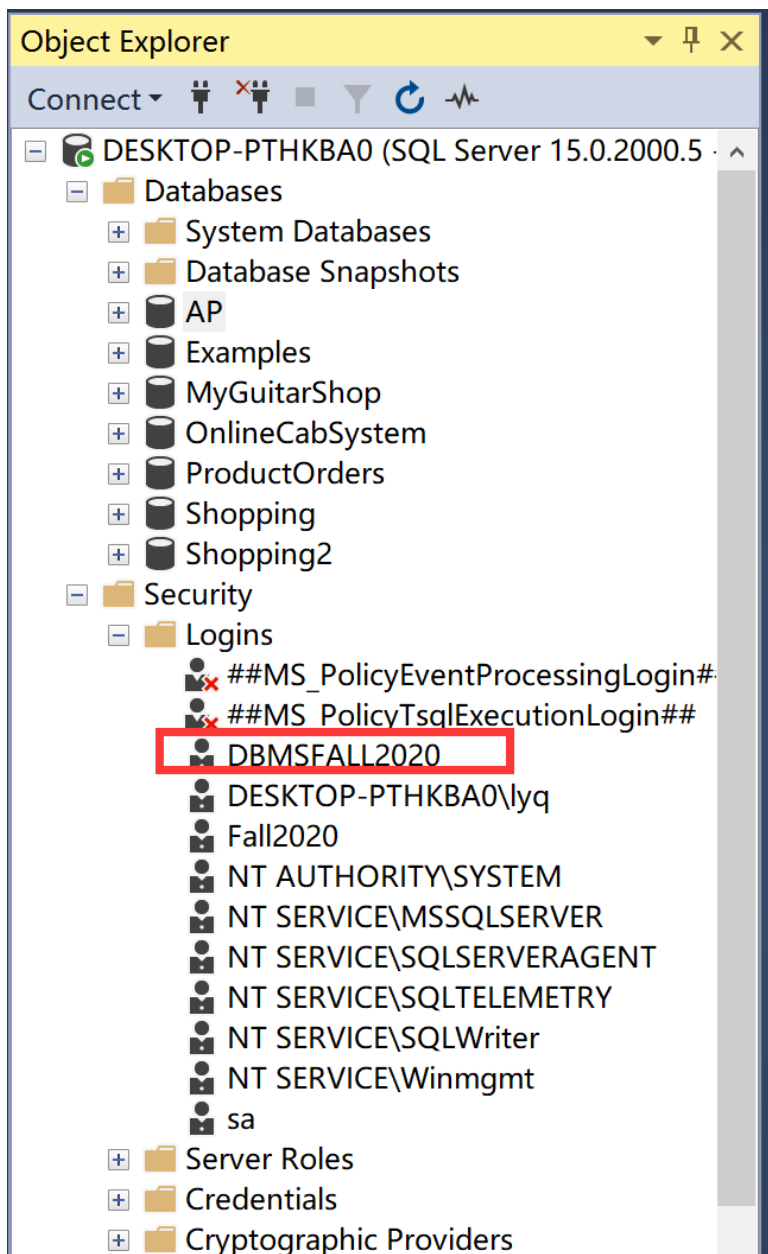
View connection property

Progress

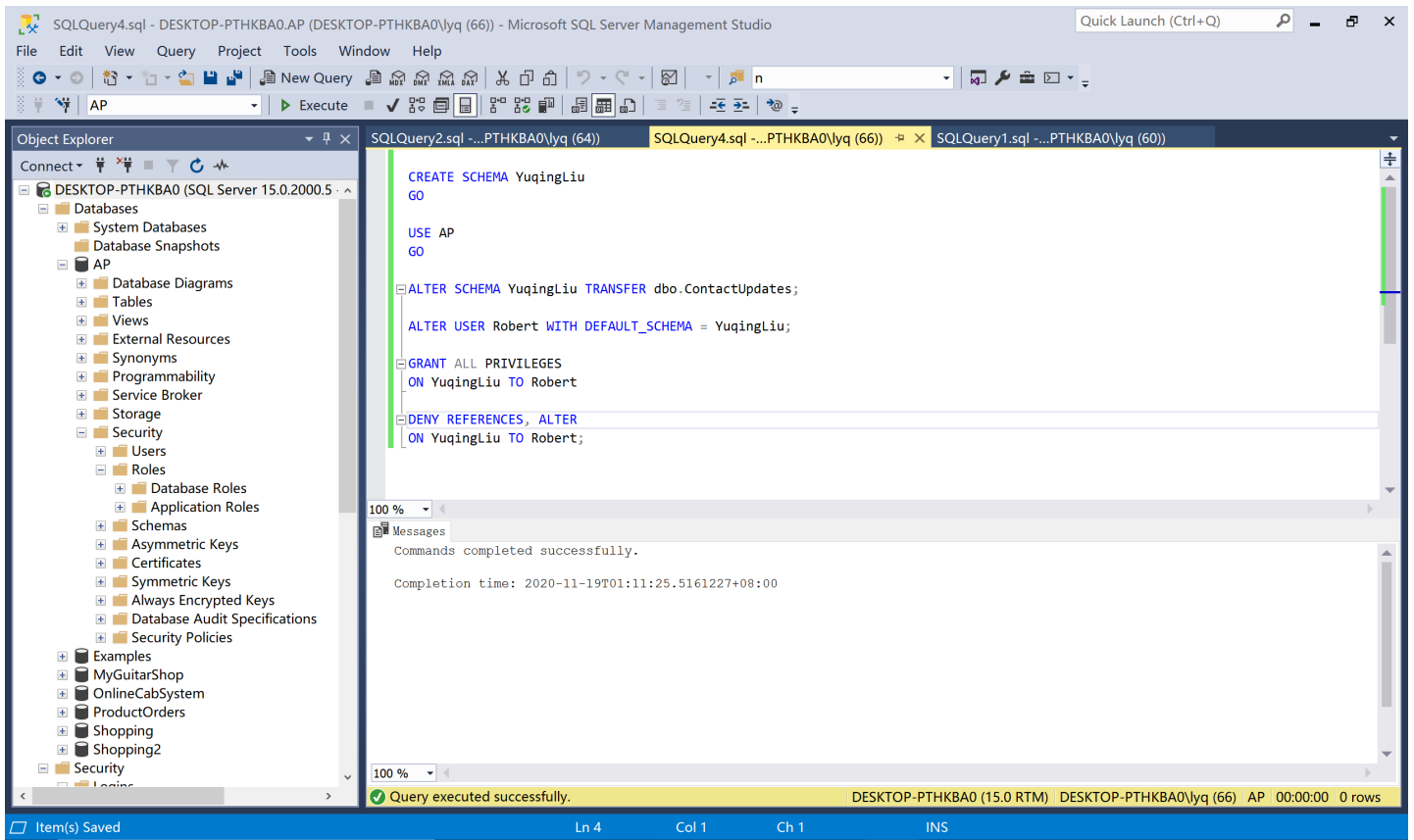
Ready

OK

Cancel



4. Write a script that (1) creates a schema named as your own name, (2) transfers the table named ContactUpdates from the dbo schema to your schema, (3) assigns the Admin schema as the default schema for the user named 'Robert' that you created in question 2, (4) grants all standard privileges except for REFERENCES and ALTER to 'Robert' for your schema.



REMARKS: Here are two methods to help us to grant the security permissions , as for me I think use the Management Studio is more convenient than the statements.