

Database Laboratory Work #1

Title: Database Creation and Maintenance

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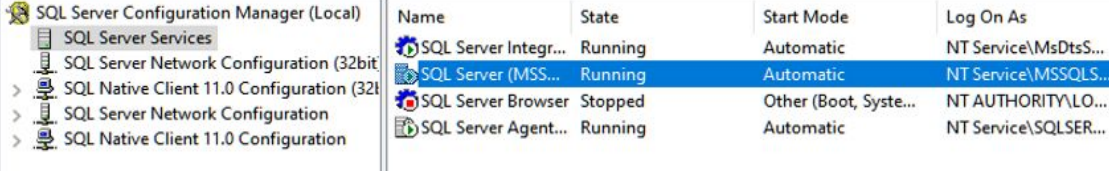
Prerequisites: Computer, SQL Installer.

Objectives: Install and configure SQL Server 2017.

Tasks: Install SQL Server tool. Selecting type of authentication SQL.
Create 3 logins of users.

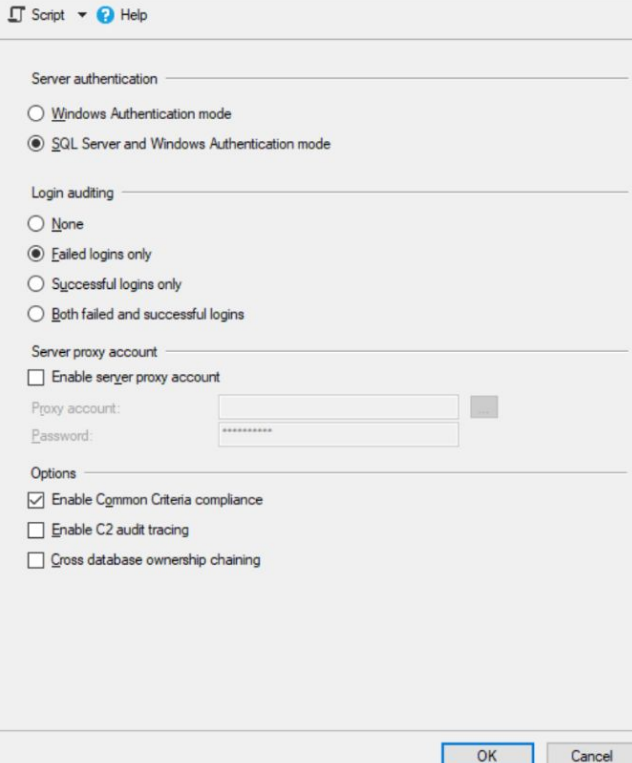
Implementation:

- Configuration management.



Name	State	Start Mode	Log On As
SQL Server Integr...	Running	Automatic	NT Service\MsDtsS...
SQL Server (MSS...	Running	Automatic	NT Service\MSSQLS...
SQL Server Browser	Stopped	Other (Boot, Syste...	NT AUTHORITY\LO...
SQL Server Agent...	Running	Automatic	NT Service\SQLSER...

- Server is successfully installed.



Script Help

Server authentication

☐ Windows Authentication mode

☒ SQL Server and Windows Authentication mode

Login auditing

☐ None

☒ Failed logins only

☐ Successful logins only

☐ Both failed and successful logins

Server proxy account

☐ Enable server proxy account

Proxy account:

Password:

Options

☒ Enable Common Criteria compliance

☐ Enable C2 audit tracing

☐ Cross database ownership chaining

OK Cancel

- First user: read and write HumanResources scheme.

Script ? Help

Users mapped to this login:

Map	Database	User	Default Schema
<input type="checkbox"/>	AdventureWorks		
<input checked="" type="checkbox"/>	AdventureWorks2017	HumanR	HumanResources ...
<input type="checkbox"/>	AdventureWorksDW2017		
<input type="checkbox"/>	master		
<input type="checkbox"/>	model		
<input type="checkbox"/>	msdb		
<input type="checkbox"/>	tempdb		

☐ Guest account enabled for: AdventureWorks2017

Database role membership for: AdventureWorks2017

<input type="checkbox"/>	db_accessadmin
<input type="checkbox"/>	db_backupoperator
<input checked="" type="checkbox"/>	db_datareader
<input checked="" type="checkbox"/>	db_datawriter
<input type="checkbox"/>	db_ddladmin
<input type="checkbox"/>	db_denydatareader
<input type="checkbox"/>	db_denydatawriter
<input type="checkbox"/>	db_owner
<input type="checkbox"/>	db_securityadmin
<input checked="" type="checkbox"/>	public

OK Cancel

- Second user: read “Sales” from AW2017 and write to AWDW2017.

Script Help

Users mapped to this login:

Map	Database	User	Default Schema
<input type="checkbox"/>	AdventureWorks		
<input checked="" type="checkbox"/>	AdventureWorks2017	SaleUser	Sales
<input checked="" type="checkbox"/>	AdventureWorksDW2017	SaleUser	db_owner
<input type="checkbox"/>	master		
<input type="checkbox"/>	model		
<input type="checkbox"/>	msdb		
<input type="checkbox"/>	tempdb		

☐ Guest account enabled for: AdventureWorksDW2017

Database role membership for: AdventureWorksDW2017

- ☐ db_accessadmin
- ☐ db_backupoperator
- ☐ db_datareader
- ☐ db_datawriter
- ☐ db_ddladmin
- ☐ db_denydatareader
- ☐ db_denydatawriter
- ☒ db_owner
- ☐ db_securityadmin
- ☒ public

OK Cancel

Script Help

Users mapped to this login:

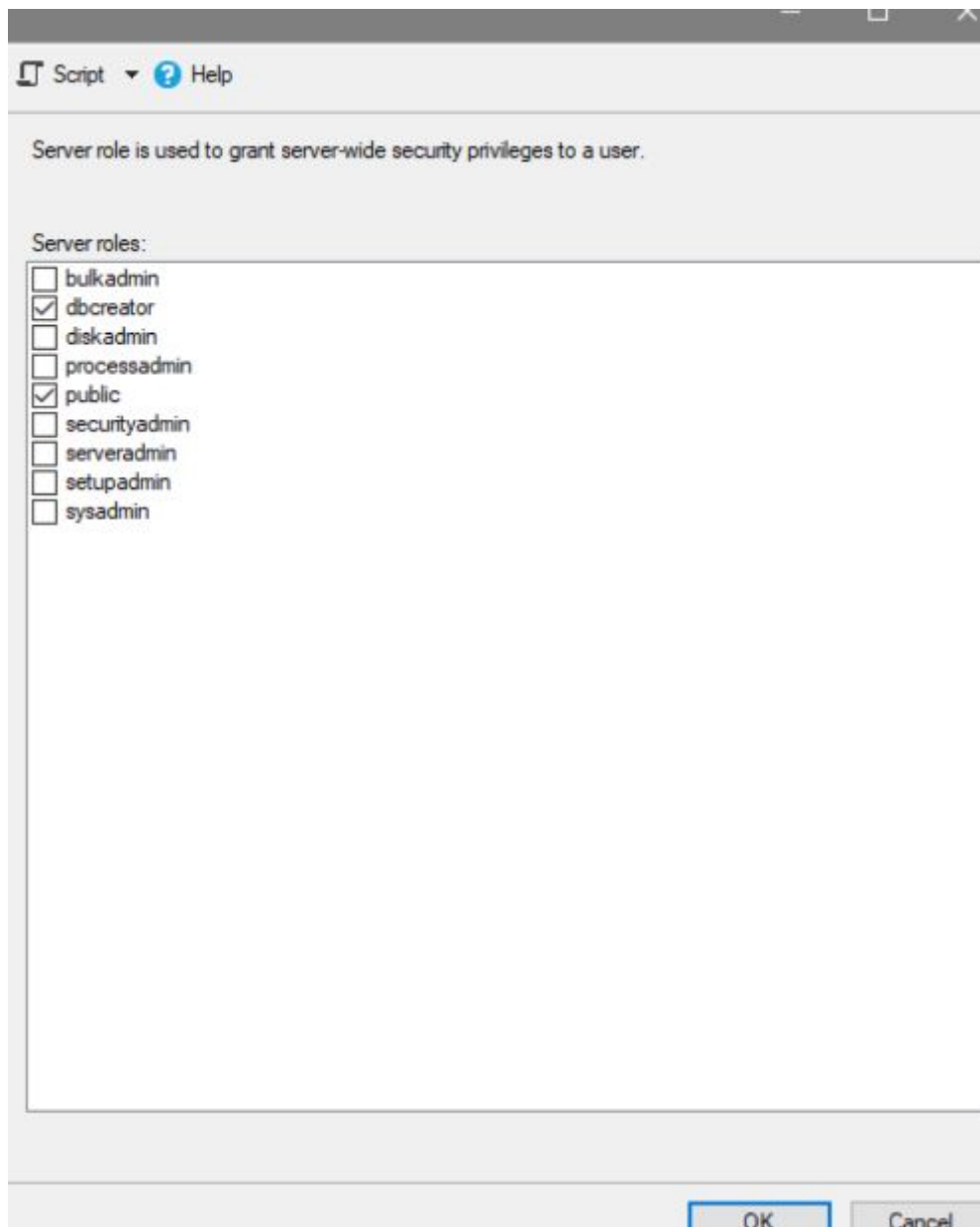
Map	Database	User	Default Schema
<input type="checkbox"/>	AdventureWorks		
<input checked="" type="checkbox"/>	AdventureWorks2017	SaleUser	Sales
<input checked="" type="checkbox"/>	AdventureWorksDW2017	SaleUser	db_owner
<input type="checkbox"/>	master		
<input type="checkbox"/>	model		
<input type="checkbox"/>	msdb		
<input type="checkbox"/>	tempdb		

☐ Guest account enabled for: AdventureWorksDW2017

Database role membership for: AdventureWorksDW2017

- ☐ db_accessadmin
- ☐ db_backupoperator
- ☐ db_datareader
- ☐ db_datawriter
- ☐ db_ddladmin
- ☐ db_denydatareader
- ☐ db_denydatawriter
- ☒ db_owner
- ☐ db_securityadmin
- ☒ public

- Third user: server dbcreator role.



Conclusion:

This laboratory work was useful in learning how to create databases and manage them, create databases and create users with different roles.