

Databases Laboratory Work Nr 1

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Title:

INSTALAREA SI CONFIGURAREA SQL SERVER 2017

Prerequisites:

Computer, Internet

Objectives:

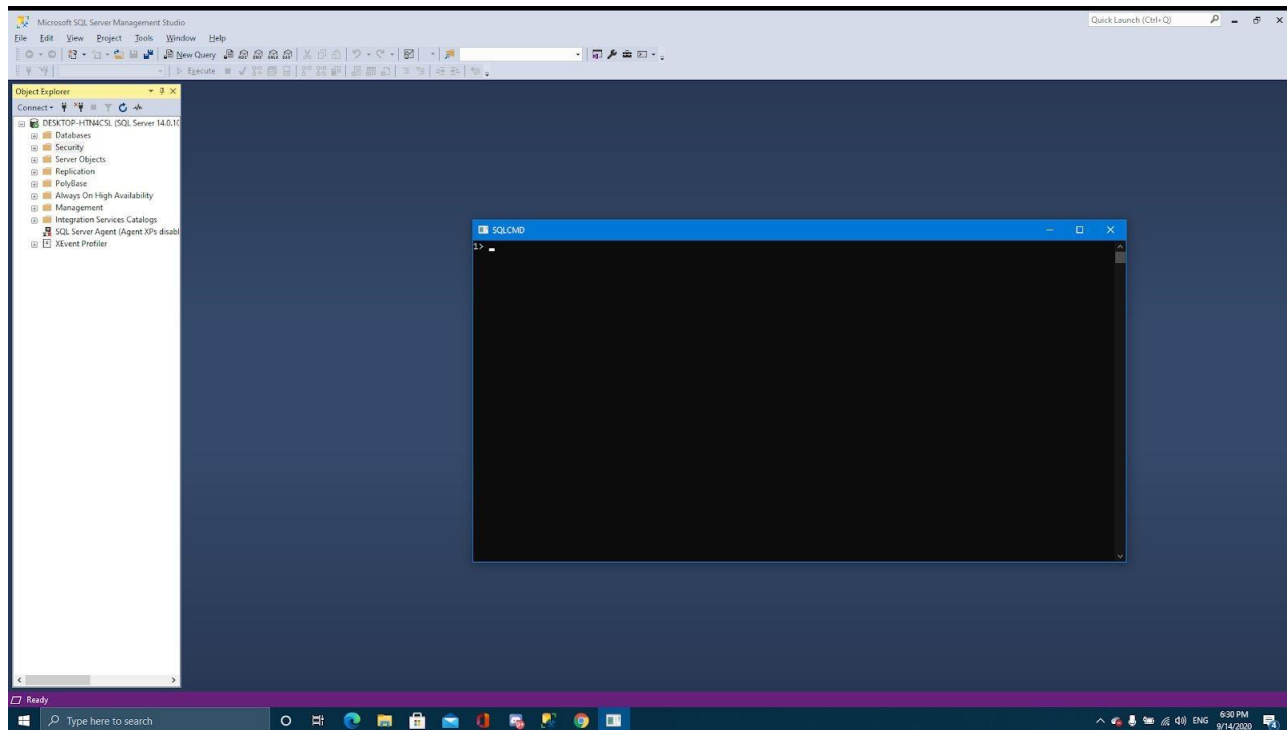
Well, to install, configure and do some sample tasks.

Tasks:

1. Sa se instaleze SQL Server 2017, urmarind procedurile descrise in lucrarea data.
2. Sa se inregistreze serverul pe calculatorul disponibil, alegand tipul de autentificare SQL.
3. Sa se creeze trei loginuri de utilizatori care sa posede SQL Autentificarea.
 - a) Sa se aloce primului utilizator acces la schema HumanResources din baza de date AdventureWorks2017. Utilizatorul dat trebuie sa aiba posibilitatea sa citeasca ~i sa editeze datele din tabelele schemei respective.
 - b) Utilizatorul #2 trebuie sa aiba acces numai la citirea datelor din schema Sales din baza de date AdventureWorks2017. In acelasi timp, el trebuie sa aiba posibilitatea sa gestioneze orice obiect ~i continutul acestui obiect din baza de date AdventureWorksDW2017.
 - c) Utilizatorul #3 trebuie sa aiba posibilitatea crearii hazel or de date noi si definirii accesului la ele.

Implementation:

Here, installed and working Microsoft SSMS and SQLCMD



Task 3 part a:
For HRManager we have AdventureWorks2017 as default DB

The screenshot shows the 'Login Properties - HRManager' dialog box. The 'General' tab is selected. The 'Login name' is 'HRManager'. The 'Authentication' section has 'SQL Server authentication' selected. The 'Password' and 'Confirm password' fields are filled with dots. The 'Enforce password policy' and 'Enforce password expiration' checkboxes are checked. The 'Default database' is 'AdventureWorks2017' and the 'Default language' is 'English - us_english'. The 'Connection' section shows the server as 'DESKTOP-HTN4CSL' and the connection as 'DESKTOP-HTN4CSL\'. The 'Progress' section shows a 'Ready' status.

General

Server Roles

User Mapping

Securables

Status

Script Help

Login name: HRManager Search...

☐ Windows authentication

☒ SQL Server authentication

Password:

Confirm password:

☐ Specify old password

Old password:

☒ Enforce password policy

☒ Enforce password expiration

☐ User must change password at next login

☐ Mapped to certificate

☐ Mapped to asymmetric key

☐ Map to Credential

Mapped Credentials

Credential	Provider
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Remove

Default database: AdventureWorks2017

Default language: English - us_english

OK Cancel

And we have HumanResources as default schema, fascinating!!!

The screenshot shows the 'Login Properties - HRManager' dialog box, 'User Mapping' tab. The 'Users mapped to this login' table shows 'AdventureWorks2017' mapped to 'HRManager' with 'HumanResources' as the default schema. The 'Database role membership for AdventureWorks2017' section shows several roles checked, including 'db_datareader', 'db_datawriter', and 'public'.

General

Server Roles

User Mapping

Securables

Status

Script Help

Users mapped to this login:

Map	Database	User	Default Schema
<input checked="" type="checkbox"/>	AdventureWorks2017	HRManager	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_dtladmin
<input type="checkbox"/>	db_denydatareader
<input type="checkbox"/>	db_denydatawriter
<input type="checkbox"/>	db_owner
<input type="checkbox"/>	db_securityadmin
<input type="checkbox"/>	hr_edit
<input checked="" type="checkbox"/>	public

OK Cancel

Task 3 part b:

Now we create user SalesManager with default DB, again, AdventureWorks2017

Login Properties - SalesManager

Select a page: General, Server Roles, User Mapping, Securables, Status

Script Help

Login name: SalesManager Search...

☐ Windows authentication

☒ SQL Server authentication

Password:

Confirm password:

☐ Specify old password

Old password:

☒ Enforce password policy

☒ Enforce password expiration

☒ User must change password at next login

☐ Mapped to certificate

☐ Mapped to asymmetric key

☐ Map to Credential

Mapped Credentials

Credential	Provider
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Remove

Default database: AdventureWorks2017

Default language: Japanese - 日本語

OK Cancel

Now we assign Sales schema from AdventureWorks2017 and also assign db_datareader and db_datawriter for AdventureWorksDW2017

Login Properties - SalesManager

Select a page: General, Server Roles, User Mapping, Securables, Status

Script Help

Users mapped to this login:

Map	Database	User	Default Schema
<input checked="" type="checkbox"/>	AdventureWorks2017	SalesManager	Sales
<input checked="" type="checkbox"/>	AdventureWorksDW2017	SalesManager	db_datareader
<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_dtladmin
- ☐ db_denydatareader
- ☐ db_denydatawriter
- ☐ db_owner
- ☐ db_securityadmin
- ☒ public

OK Cancel

Task 3 part c:

For this part we create a DBManager login and make him admin for master

The screenshot shows the 'Login Properties - DBManager' dialog box with the 'General' tab selected. The 'Login name' is 'DBManager'. The 'Authentication' section has 'SQL Server authentication' selected. The 'Password' and 'Confirm password' fields are filled with dots. The 'Enforce password policy', 'Enforce password expiration', and 'User must change password at next login' checkboxes are all checked. The 'Default database' is 'master' and the 'Default language' is 'English - us_english'.

Login Properties - DBManager

Select a page: General, Server Roles, User Mapping, Securables, Status

Script ? Help

Login name: DBManager Search...

☐ Windows authentication
☒ SQL Server authentication

Password:
Confirm password:
☐ Specify old password
Old password:

☒ Enforce password policy
☒ Enforce password expiration
☒ User must change password at next login

☐ Mapped to certificate
☐ Mapped to asymmetric key
☐ Map to Credential Add

Mapped Credentials

Credential	Provider
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Remove

Default database: master
Default language: English - us_english

OK Cancel

The screenshot shows the 'Login Properties - DBManager' dialog box with the 'Users mapped to this login' tab selected. The 'Map' column has a checkbox checked for the 'master' database. The 'User' is 'DBManager' and the 'Default Schema' is 'dbo'. The 'Guest account enabled for: master' checkbox is checked. The 'Database role membership for: master' section has several roles checked, including db_accessadmin, db_backupoperator, db_datareader, db_datawriter, db_dtladmin, db_owner, and public.

Login Properties - DBManager

Select a page: General, Server Roles, User Mapping, Securables, Status

Script ? Help

Users mapped to this login:

Map	Database	User	Default Schema
<input type="checkbox"/>	AdventureWorks2017		
<input type="checkbox"/>	AdventureWorksDW2017		
<input checked="" type="checkbox"/>	master	DBManager	dbo
<input type="checkbox"/>	model		
<input type="checkbox"/>	msdb		
<input type="checkbox"/>	tempdb		

☒ Guest account enabled for: master

Database role membership for: master

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

OK Cancel

Conclusion:

I figured out how to install and configure SSMS and Microsoft SQL server and created some simple logins.