

# Databases Laboratory Work Nr 1

## Title: INSTALAREA SI CONFIGURAREA SQL SERVER 2017

---

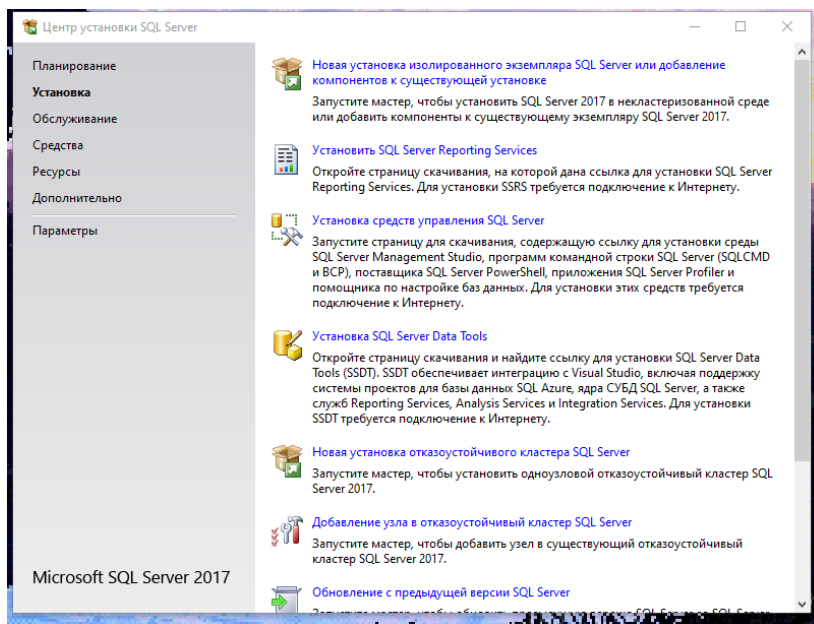
**Prerequisites: Computer, SQL Installer.**

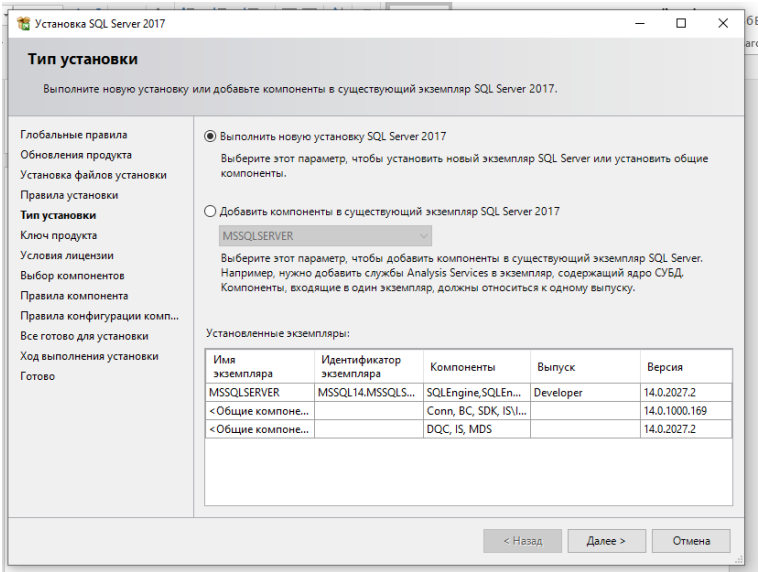
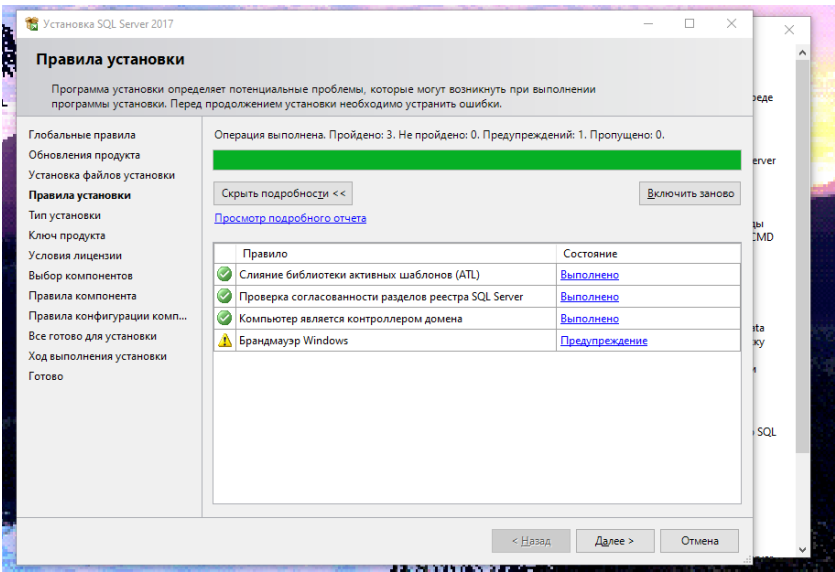
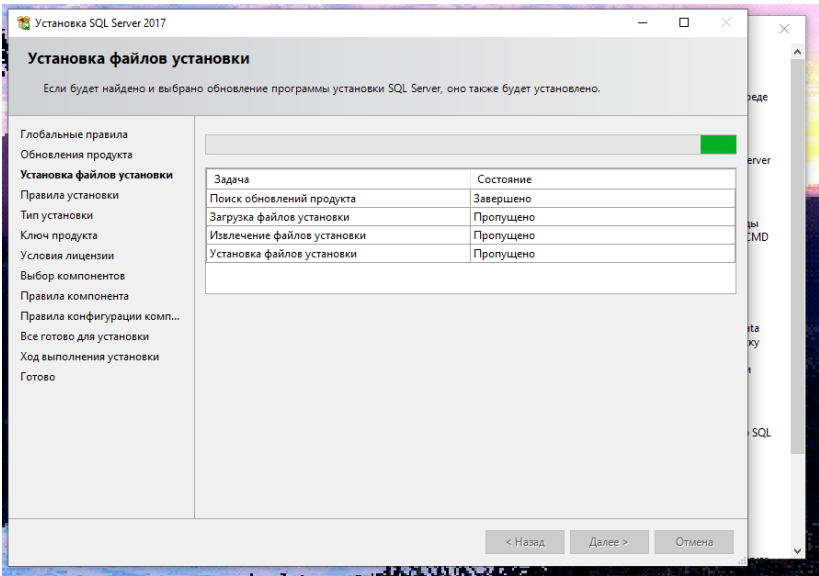
**Objectives: To install and configure SQL Server 2017.**

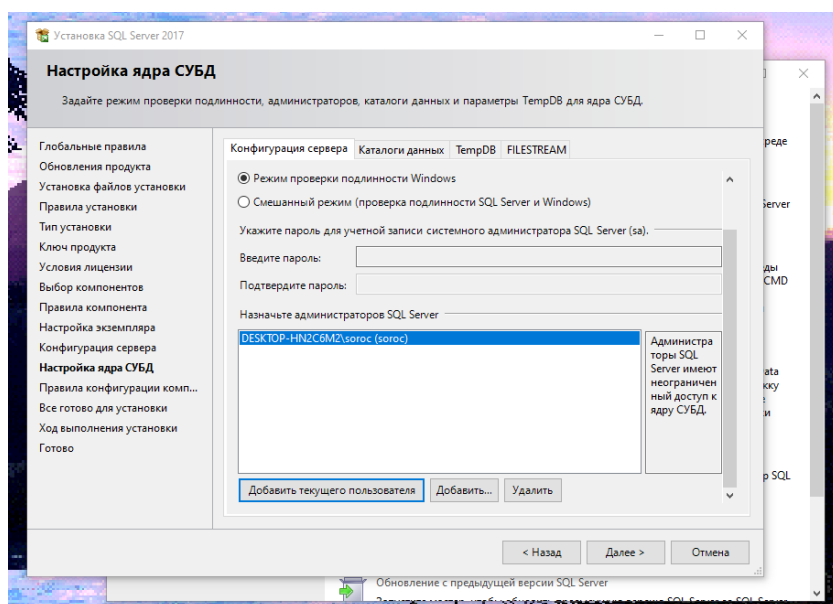
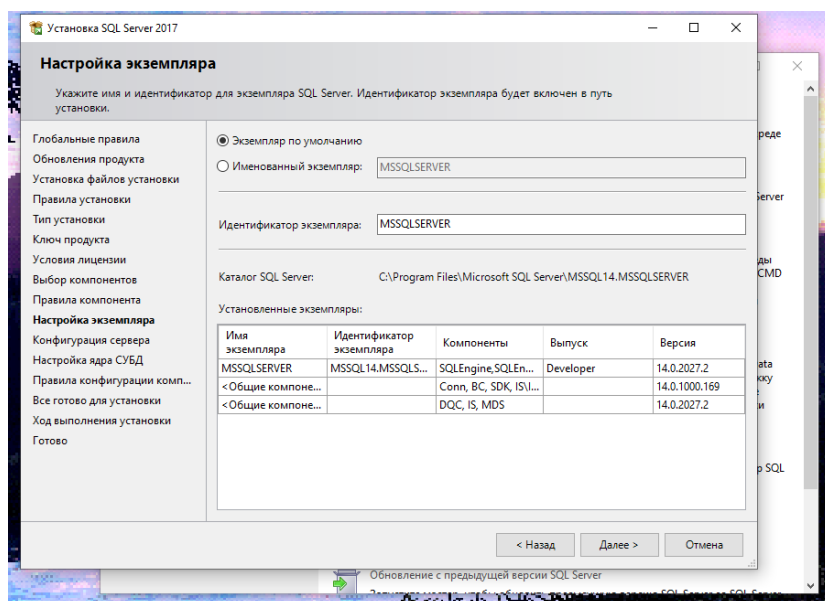
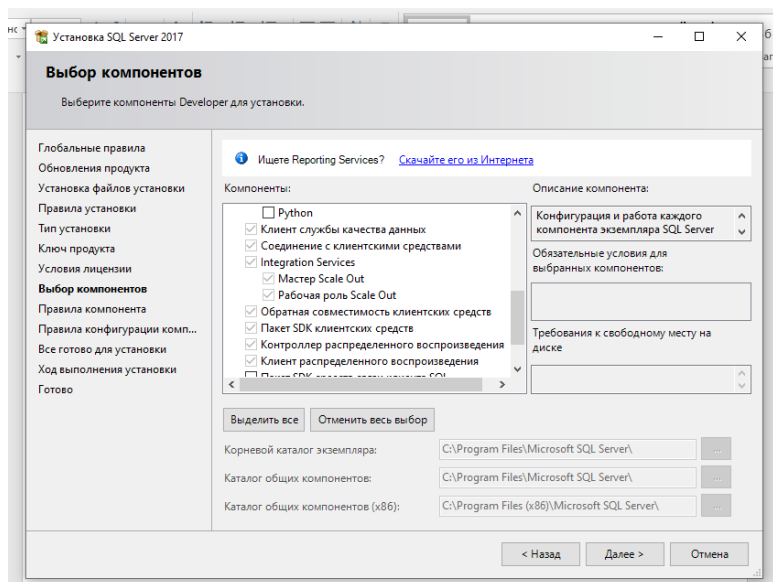
**Tasks: Installation of SSMS. To record server on the computer, selecting type of authentication SQL. To create three logins of users.**

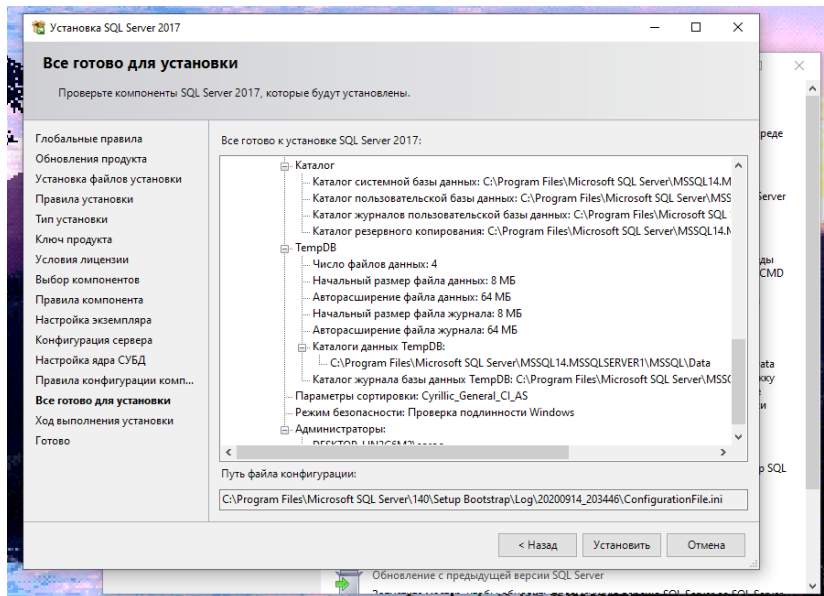
**Implementation:**

**1) The first thing we do is just installation of SQL server and its management tools.**



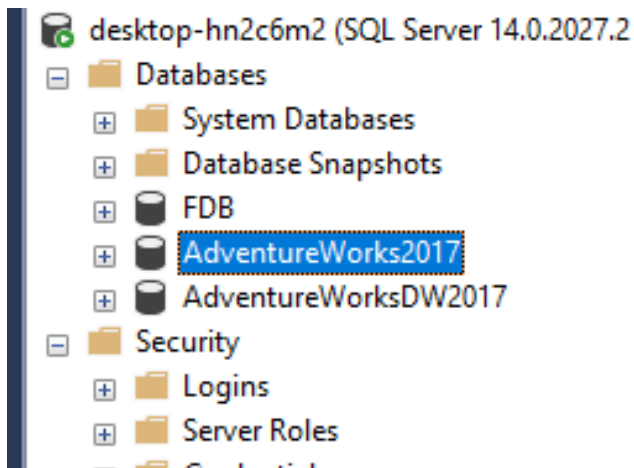






**2) The next thing we have to do are exercises:**

**We restore the databases AdventureWorks2017 and AdventureWorksDW2017 with authentication SQL type.**



**After, we allocate three users:**

**The first user:**

Login Properties - I1337

Select a page

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

Connection

Server: DESKTOP-HN2C6M2

Connection: DESKTOP-HN2C6M2\soroc

[View connection properties](#)

Progress

Ready

Script ? Help

Login name: I1337 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
------------	----------

Remove

Default database: AdventureWorks2017

Default language: Russian - русский

OK Cancel

Login Properties - I1337

Select a page

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

Connection

Server: DESKTOP-HN2C6M2

Connection: DESKTOP-HN2C6M2\soroc

[View connection properties](#)

Progress

Ready

Script ? Help

Users mapped to this login:

Map	Database	User	Default Schema
<input checked="" type="checkbox"/>	AdventureWorks2017	I1337	HumanResources
<input type="checkbox"/>	AdventureWorksDW2017		
<input type="checkbox"/>	FDB		
<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 type="checkbox"/>	db_datareader
<input type="checkbox"/>	db_datawriter
<input type="checkbox"/>	db_ddladmin
<input type="checkbox"/>	db_denydatareader
<input type="checkbox"/>	db_denydatawriter
<input checked="" type="checkbox"/>	db_owner
<input type="checkbox"/>	db_securityadmin
<input checked="" type="checkbox"/>	public

OK Cancel

# The second one:

Login Properties - III

Select a page

General

Server Roles

User Mapping

Securables

Status

Connection

Server:  
DESKTOP-HN2C6M2

Connection:  
DESKTOP-HN2C6M2\soroc

[View connection properties](#)

Progress

Ready

Script ? Help

Login name:

☐ 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
------------	----------

Add

Remove

Default database:  
master

Default language:  
Russian - русский

OK

Cancel

Login Properties - III

Select a page

General

Server Roles

User Mapping

Securables

Status

Connection

Server:  
DESKTOP-HN2C6M2

Connection:  
DESKTOP-HN2C6M2\soroc

[View connection properties](#)

Progress

Ready

Script ? Help

Users mapped to this login:

Map	Database	User	Default Schema
<input checked="" type="checkbox"/>	AdventureWorks2017	III	Sales
<input checked="" type="checkbox"/>	AdventureWorksDW2017	III	db_accessadmin
<input type="checkbox"/>	FDB		
<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

☐ db\_accessadmin

☐ db\_backupoperator

☐ db\_datareader

☐ db\_datawriter

☐ db\_dtladmin

☐ db\_denydatareader

☐ db\_denydatawriter

☒ db\_owner

☐ db\_securityadmin

☒ public

OK

Cancel

# The third one:

Login Properties - usercreator

Select a page

General

Server Roles

User Mapping

Securables

Status

Connection

Server:  
DESKTOP-HN2C6M2

Connection:  
DESKTOP-HN2C6M2\soroc

[View connection properties](#)

Progress

Ready

Script ? Help

Login name: usercreator 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
------------	----------

Add

Default database: master

Default language: Russian - русский

Remove

OK

Cancel

Login Properties - usercreator

Select a page

General

Server Roles

User Mapping

Securables

Status

Connection

Server:  
DESKTOP-HN2C6M2

Connection:  
DESKTOP-HN2C6M2\soroc

[View connection properties](#)

Progress

Ready

Script ? Help

Server role is used to grant server-wide security privileges to a user.

Server roles:

☐ bulkadmin

☒ dbcreator

☐ diskadmin

☐ processadmin

☐ public

☒ securityadmin

☐ serveradmin

☐ setupadmin

☐ sysadmin

OK

Cancel

## **Conclusion:**

**In conclusion, I can say, that I have learned how install needed tools and additions for working with the SQL servers, to create own SQL server on the computer, to restore databases (for example AdventureWorks2017 and AdventureWorksDW2017) and to create types of users for those databases with their own determined roles and functions, restrictions and permissions on different schemes of databases.**