

TECHNICAL UNIVERSITY OF MOLDOVA

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DB Laboratory 1

Submitted To:
Maria Cojanu
Asst. Univ.
Computer Science
Department

Submitted By:
Sezgin Erol
Group FAF-161
Semester 1

General purpose:

Learn about Creating a Database

Tasks:

- Create physical data stored in the MyDocuments map by setting an increase of the primary 5MB file with the 100MB increase limit and 20MB initial with the 1000MB increase limit. Bypass secondary files to define a new Filegroap implicit, setting the increase of 10 MB of secondary files with the limit of 1000 MB.
- Create a database, where the log file is physically placed on the MyDocuments / log map, the name log file in the operating system environment must be different from the logical one defined in physical scheme. It is important that the database you create is compatible with the MS SQL system The 2014 Server is accessible to only one user at a time.
- Create the database interlining plan built in load 1. Unused sleeping space database files must be removed when it reaches 2000Mb. space released must be returned to the operating system. This operation must also be run in every Friday at 02:00. The report of the implementation of the plan must be saved in the file MyDocuments SQlreports. They executed the plan. After execution, verifiers the results in the log figure.
- Create the plan of database interconnection built in exercise 2. The name of the plan will be: Reconstruction index. "Under this plan, the system must undertake the reconstruction indexes only on the base tables (excluding the views) of all the existing schemes in the data base in question. The free space on the page must be 10 After rebuilding, you must to follow the collection of complete statistics on reconstruction indices. The third step of the plan must also be the task of deleting history of Backup-Restore operations what happened on SQL Server. The history that is older than 6 weeks must be deleted. This the plan must be executed every first Sunday of the month. Create the file MyDocument/SQL/reports. The plan execution report must be added to this file. They executed the plan. After execution, verify the results in the generated log file

Task Realization:

In figure 1 we can see the process Creating a Database.

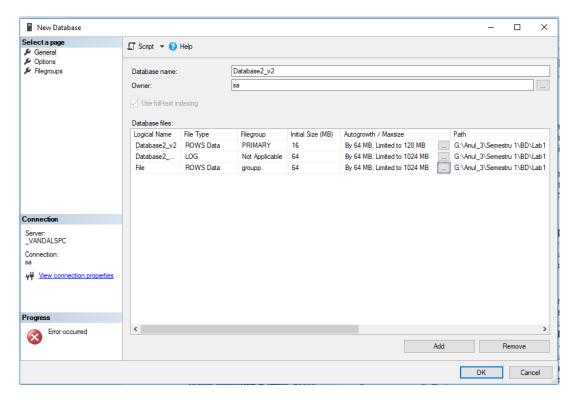


Figure 1: Creating a Database

Here i also set the Filegroups, Initial Sizes , Autogrowth size and the paths

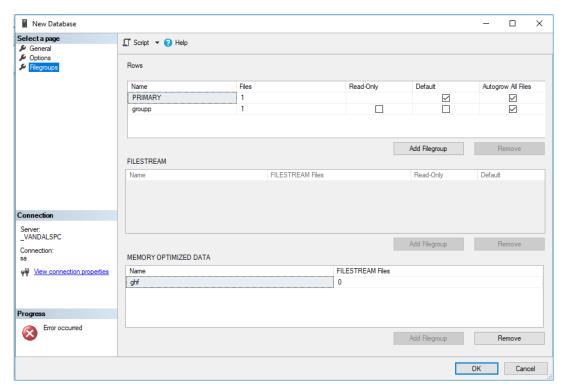


Figure 2: Setting Filegroups I created 2 custom filegroups

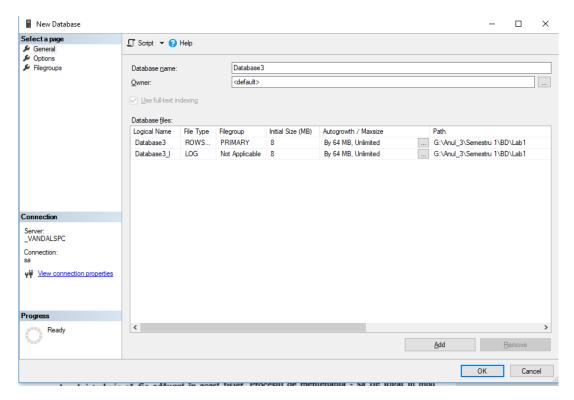


Figure 3: Creating Second Database

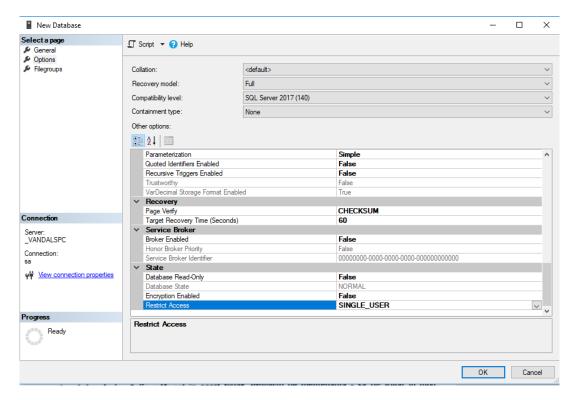


Figure 4: Configuring DB Options

I set the single user and SQL Server 2017 compatibility level.

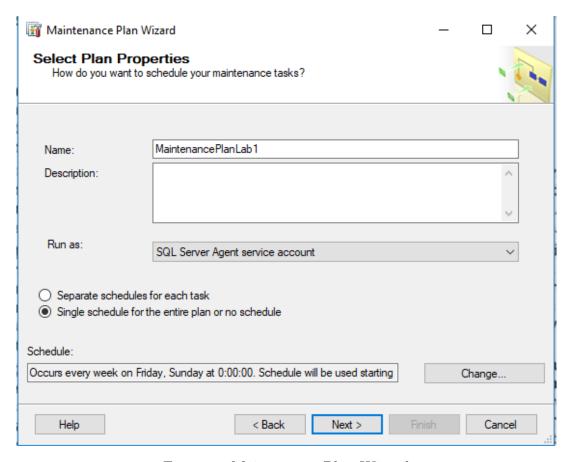


Figure 5: Maintenance Plan Wizard

I created a Plan using Wizard and also i set the Schedule. Also i selected Shrink Database Option.

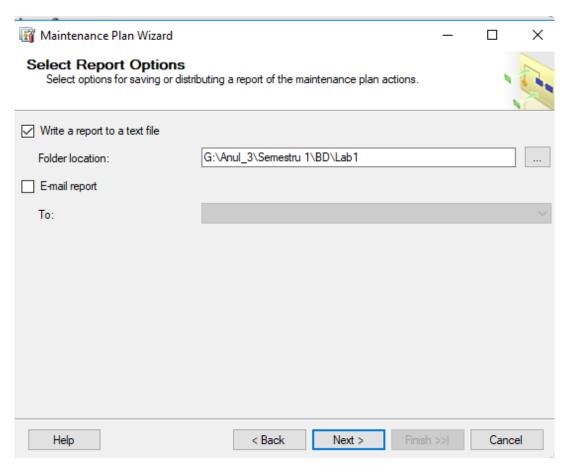


Figure 6: Setting folder Location

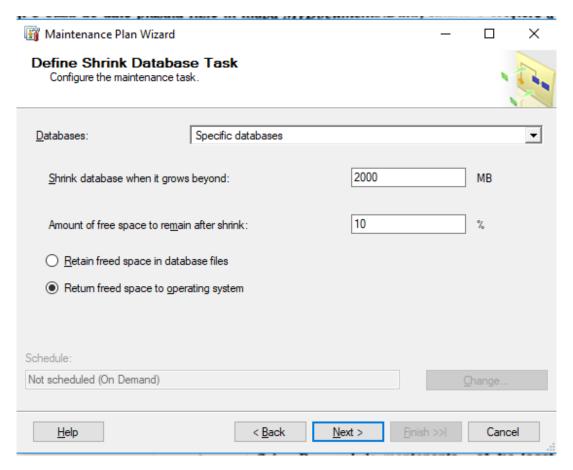


Figure 7: Defining Shrink Database Task

I set 2000 MB limit and 10 percent space remaining after shrink

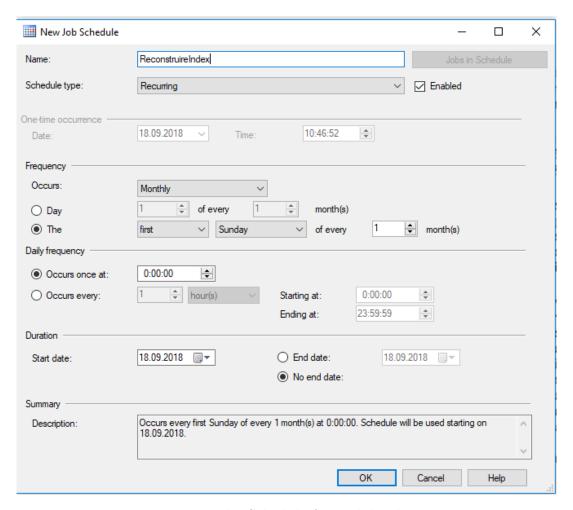


Figure 8: The Schedule for 2nd database

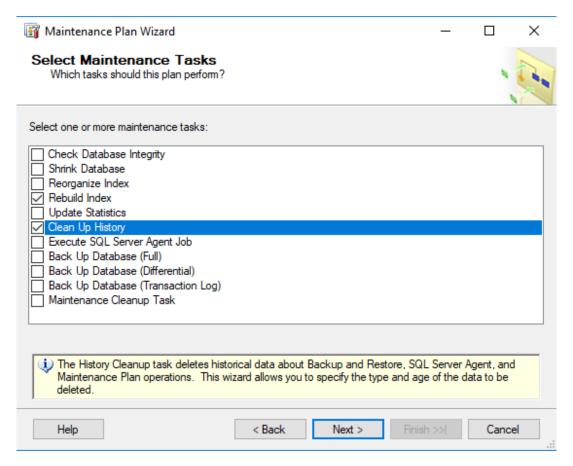


Figure 9: Maintenance Tasks for 2nd DB

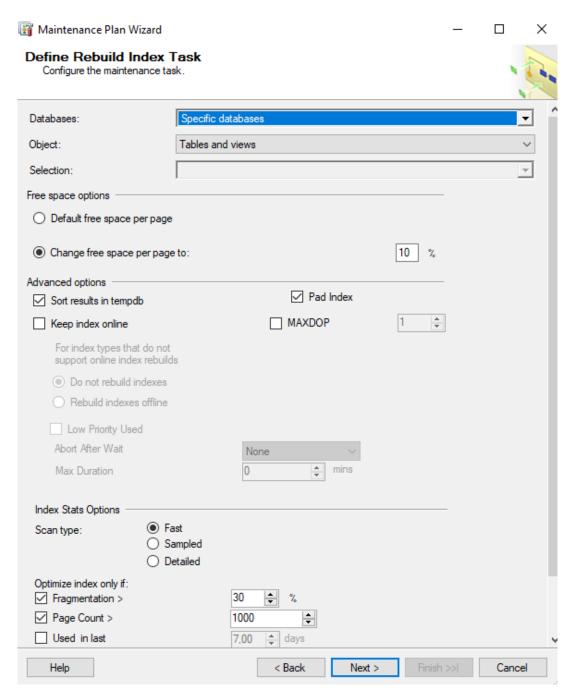


Figure 10: Defining rebuild Index

Conclusion

During This lab work i find out how to run SQL server on PC. And I learned how to configure a Data Base, and to create and set the scheduled plans such a Maintenance. So i Understood that Sql Server Management Studio is Powerful tool to manage Databases. [1]

References

[1] SQL Server Management Studio, Tutorials for Lab 1 and 2