

LAB 0

0. Rules and regulations:

Getting to know the rules and regulations.

1. Get yourself familiar with rules and regulations document -
[https://eportal.ii.pwr.edu.pl/w08/BOARD/Lorkiewicz.Wojciech/2016-17%20Data%20Warehouses%20\(I\)/Lab/Lab%20%20-%20RULES%20AND%20REGULATIONS.pdf](https://eportal.ii.pwr.edu.pl/w08/BOARD/Lorkiewicz.Wojciech/2016-17%20Data%20Warehouses%20(I)/Lab/Lab%20%20-%20RULES%20AND%20REGULATIONS.pdf).

2. Software Testing:

Testing the software installation and configuration.

1. Run MS Excel:
 - 1.1. try saving a simple worksheet.
2. Run MS SQL Server Management Studio:
 - a. Try to connect to Database Engine
 - i. Server name should be PY-XX (Y class number, XX computer number).
 - ii. Use SQL Server Authentication
 - iii. Login sqlXX, password sql-XX (XX number of the computer)
 - b. Check if all required databases are available – AdventureWorks2014, AdventureWorksDW2014, AdventureWorks2016CTP3, AdventureWorksDW2016CTP3, WideWorldImporters, WideWorldImportersDW
 - i. Please do simple SQL SELECTs
 - ii. DO NOT MODIFY ANY DATA IN THESE DATABASES !!!
 - c. Try to connect to Analysis Services
 - i. Use Windows Authentication
 - d. Try to connect to Integration Services
 - i. Use Windows Authentication
 - e. Try to connect to Reporting Services
 - i. Use Windows Authentication

3. Run MS SQL SERVER DATA TOOLS 2015:

- a. Try to create a new project – Integration Services / Integration Services Project
 - i. Create one and save, that's it
- b. Try to create a new project – Analysis Services / Analysis Services Multidimensional and Data Mining Project
 - i. Create one and save
 - ii. Add Data Source (right click Data Source (right pane) and select New Data Source)
 1. Server Name – PY-XX XX (Y class number, XX computer number)
 2. Authentication – SQL Server Authentication
 - a. Login sqlXX, password sql-XX (XX number of the computer)
 3. Database – AdventureWorksDW2014
 - iii. Modify created Data Source
 1. Double click the newly created Data Source
 2. Select Impersonation tab and select “Use the service account” option

- iv. Add Data Source View (right click Data Source Views (right pane) and select New Data Source View)
 - 1. Use Data Source from ii
 - 2. Select tables DimDate and FactInternetSales (move to the right pane)
- v. Add Cube (right click Cubes (right pane) and select New Cube)
 - 1. Use existing tables
 - 2. Measure group tables – select FactInternetSales and select all measures
 - 3. Dimension – select only DimDate (deselect FactInternetSales)
- vi. Process Cube
 - 1. Right click on the newly created cube and select Process
 - 2. Select to build and deploy
 - 3. Run the process
- c. Try to create a new project – Reporting Services / Report Server Project
 - i. Create one and save

4. Run PowerBI Desktop:

- a. Select “Get data”
 - i. Connect to SQL Server
 - ii. Use AdventureWorks2014 database
 - iii. Select Production.Product table
- b. Drag and drop “Stacked Column Chart” from Visualizations (right pane) to work area (white middle space)
- c. Select added “Stacked Column Chart” by clicking on it
- d. Drag and drop:
 - i. Axis – color
 - ii. Value – ListPrice (select Average as aggregation method, use checkbox)
- e. Save the project