

### KPI creation in Visual Studio for SSDT 2017

Following example base on the “BookstoreDataWarehouseImplementation.pdf” implementation example for John’s Bookstore project.

1. Choose the previously created cube;
2. In “KPI Organizer” right click and select “New KPI”;
3. Name it “Profit”;
4. Choose associated Measure Group: Sprzedaz\_ksiazki;
5. Write basic MDX expression to calculate Profit value:  
`[Measures].[Zysk]`
6. Write basic MD expression to calculate expected value of the indicator:  
`108000`
7. Write expression to determine status of the indicator:  
`IIf(KPIVALUE("Profit") > KPIGoal("Profit"), 1, -1)`
8. Choose trend symbol “Status arrow”;
9. Write expression to determine trend of the indicator:  
`IIf ( KPIValue( "Zyski" ) > ( KPIValue( "Zyski" ),  
ParallelPeriod ( [ID Data Sprzedazy].[Od roku do dnia].[Rok],  
1, [ID Data Sprzedazy].[Od roku do dnia].CurrentMember ) ), 1,  
-1)`
10. Process cube, change view to the Browser mode;
11. Choose dimension “Data sprzedaży”, “Od roku do dnia” (from year to date) hierarchy and “Equal” operator. In “Filter Expression” choose one year. Observe the change of trend and status for different years;

Good luck!