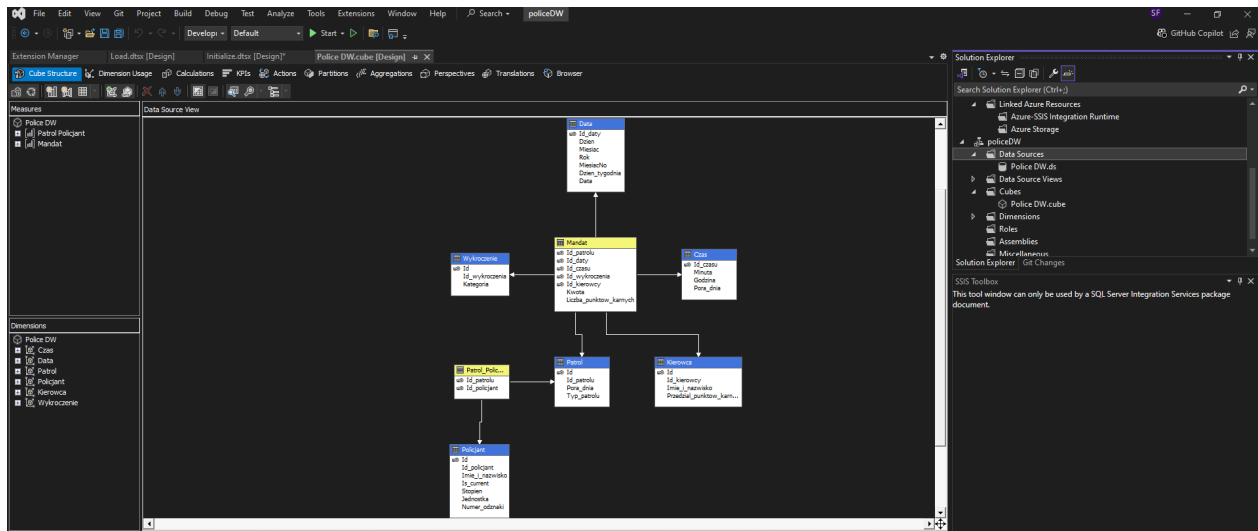
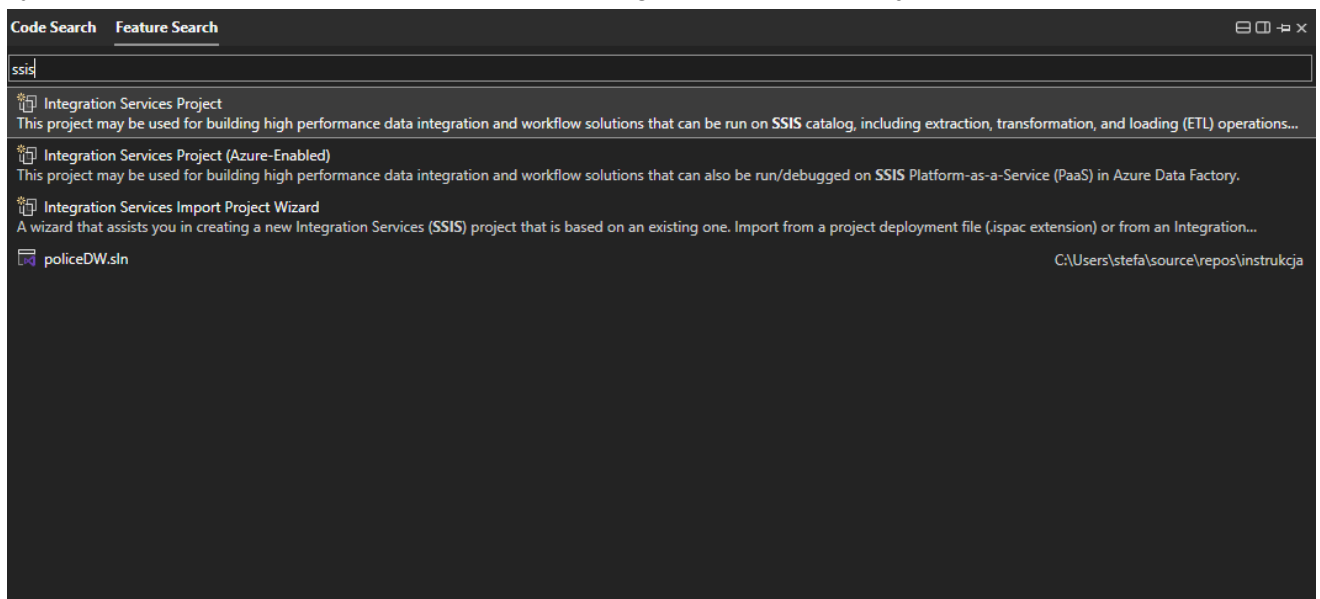


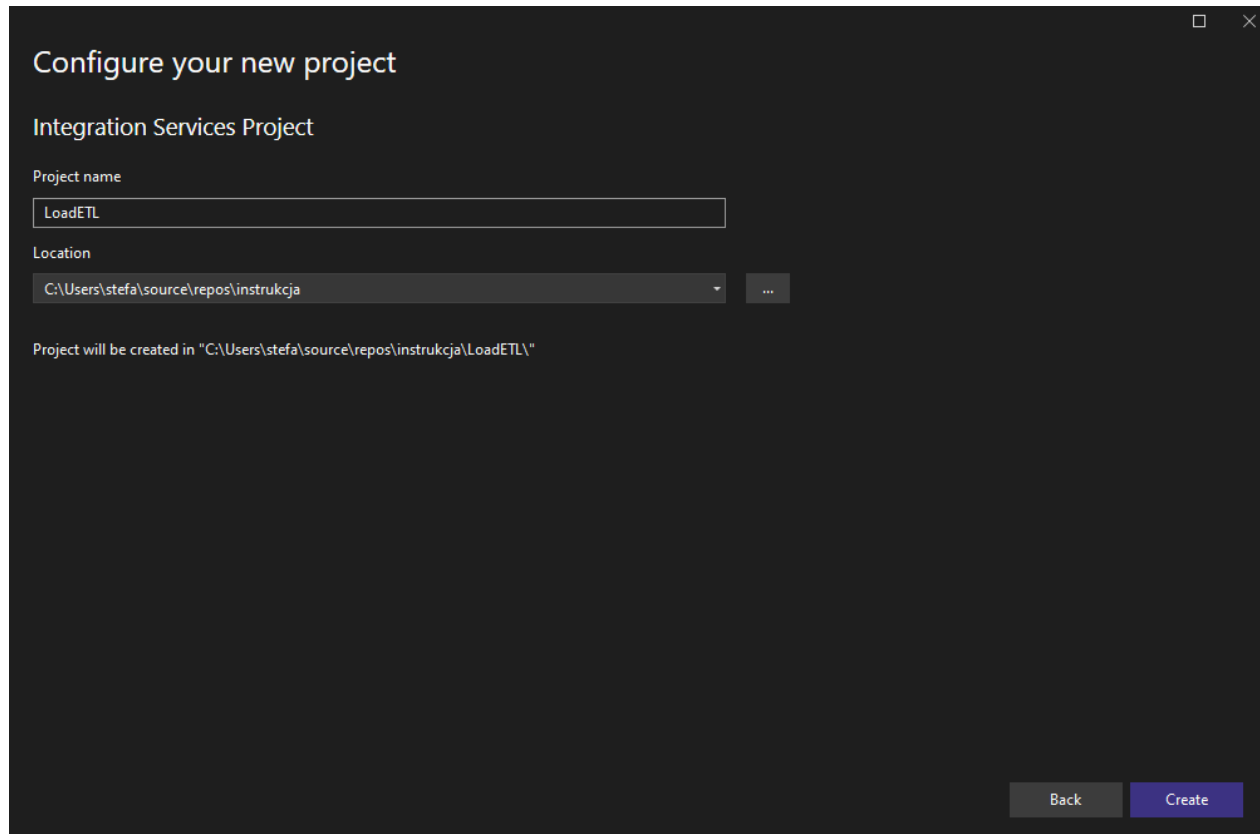
Make sure you have SSIS installed !! (Extensions->Manage Extensions->SQL Server Integration Services Projects 2022)



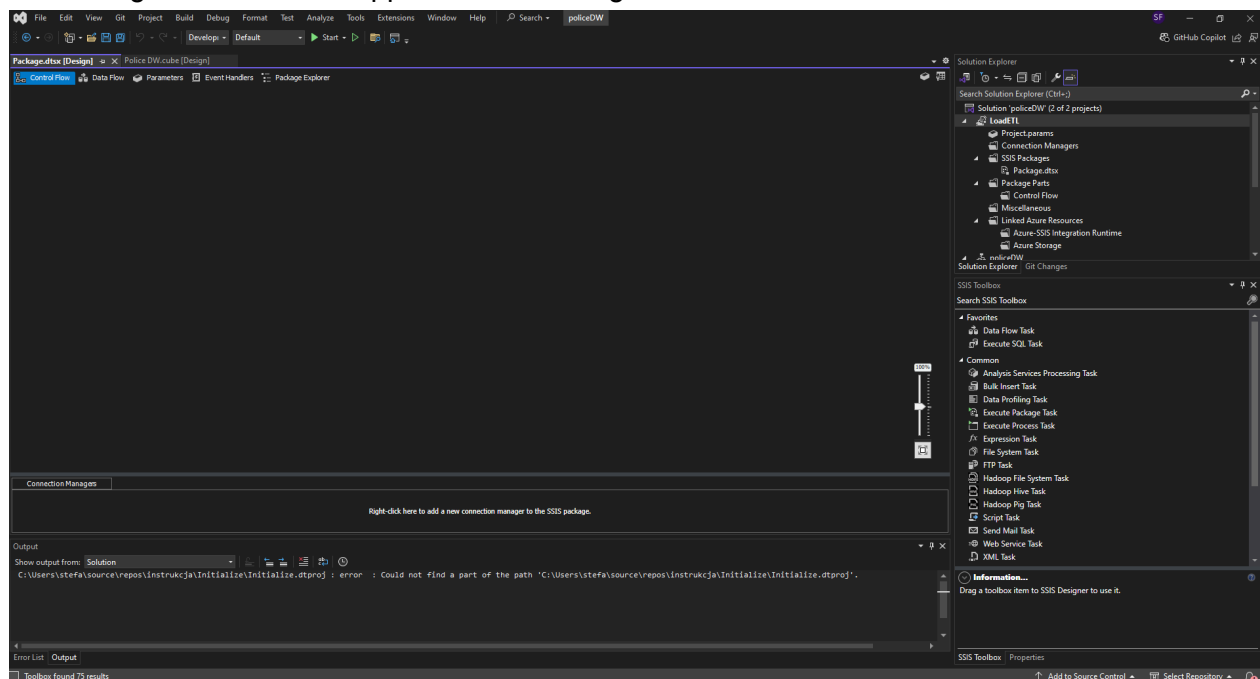
Type SSIS in the top search bar and choose Integration Services Project



New project will be added as part of the old one

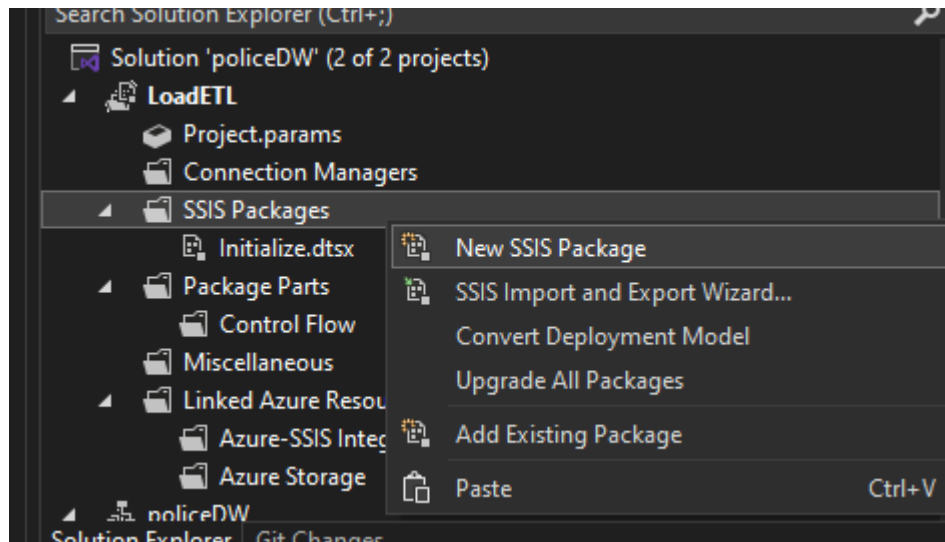


Something like this should appear after creating



In solution explorer you can add new ssis package, you can split workflow into two:  
-Initializing data such as date and time that are loaded into data warehouse only once

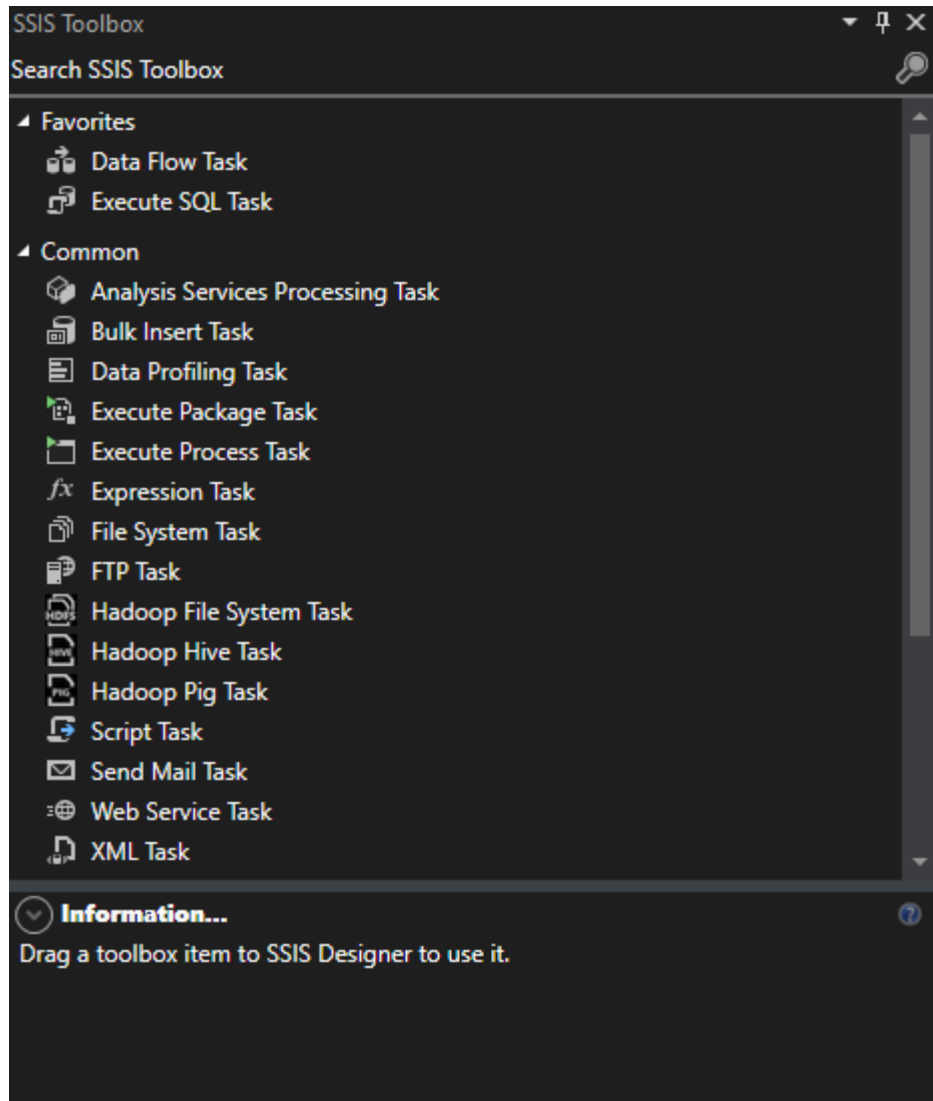
-Loading other dimensions and processing the cube



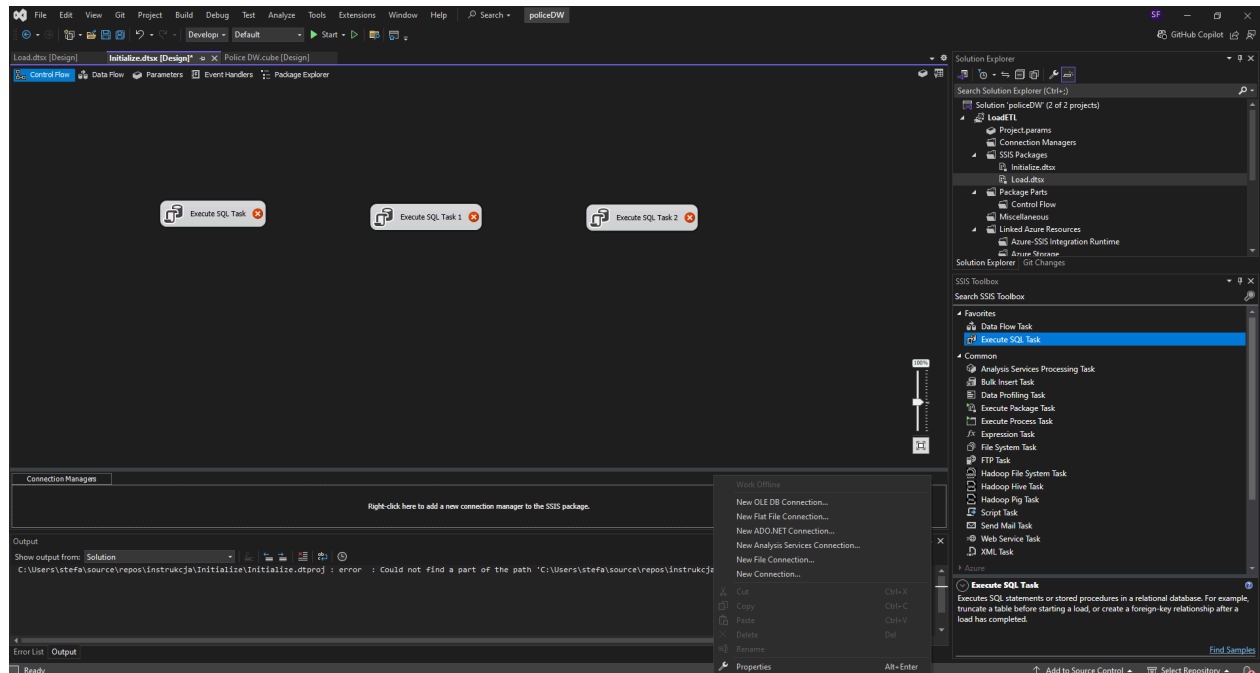
SSIS Toolbox has necessary tools:

- Execute SQL Task (to run ETL scripts)
- Analysis Services Processing Task (to process whole project)

You can use them by dragging them to the canvas



Drag **Execute SQL Task** into the control flow space. (This example shows only tasks required for specific initialization process - time, date, drivers)



In the bottom of the control flow space, right click on the **Connection Manager**.  
Add connection to your Data Warehouse (New OLE DB Connection), type “localhost”

Configure OLE DB Connection Manager

To create a connection manager based on previously defined connection information, select a data connection, and then click OK. To create a new connection manager, click New.

Data connections:

Data connection properties:

Property	Value	

New...

Delete

OK

Cancel

Connection Manager

Provider: Native OLE DB\SQL Server Native Client 11.0

**Connection**

Server name: localhost Refresh

Log on to the server

Authentication: Windows Authentication

User name: Password: Save my password

Connect to a database

☒ Select or enter a database name: PoliceDW

☐ Attach a database file: Browse... Logical name:

Test Connection OK Cancel Help

After adding the connection to your relational warehouse, add required tsqf files (also in **Connection Manager**).


File Connection Manager Editor

Configure the file connection properties to reference a file or a folder that exists or is created at run time.

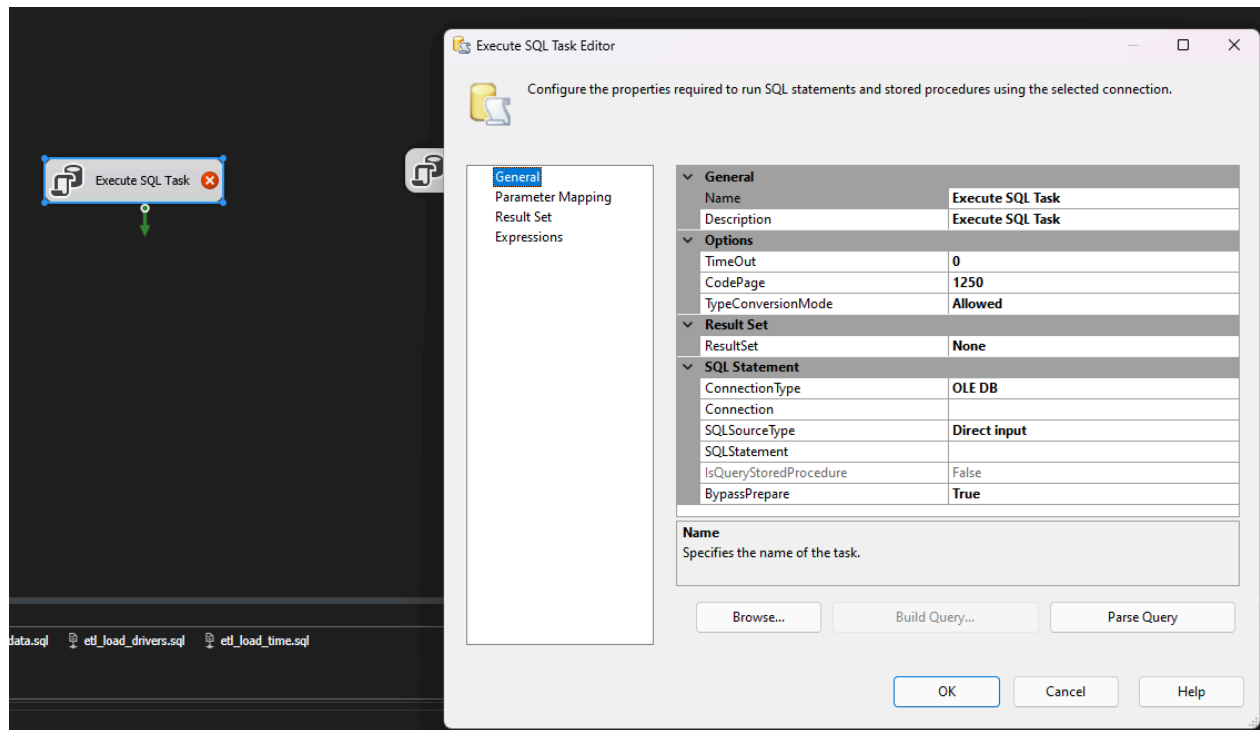
Usage type: Existing file

File: Browse...

OK Cancel

 File name must be specified.

Double click on your task and assign values as presented below (apply it to your project needs).





Execute SQL Task Editor

Configure the properties required to run SQL statements and stored procedures using the selected connection.

General  
Parameter Mapping  
Result Set  
Expressions

<b>General</b>	
Name	Execute SQL Task
Description	Execute SQL Task
<b>Options</b>	
TimeOut	0
CodePage	1250
TypeConversionMode	Allowed
<b>Result Set</b>	
ResultSet	None
<b>SQL Statement</b>	
ConnectionType	OLE DB
Connection	localhost.PoliceDW
SQLSourceType	File connection
FileConnection	etl_load_data.sql
IsQueryStoredProcedure	False
BypassPrepare	True

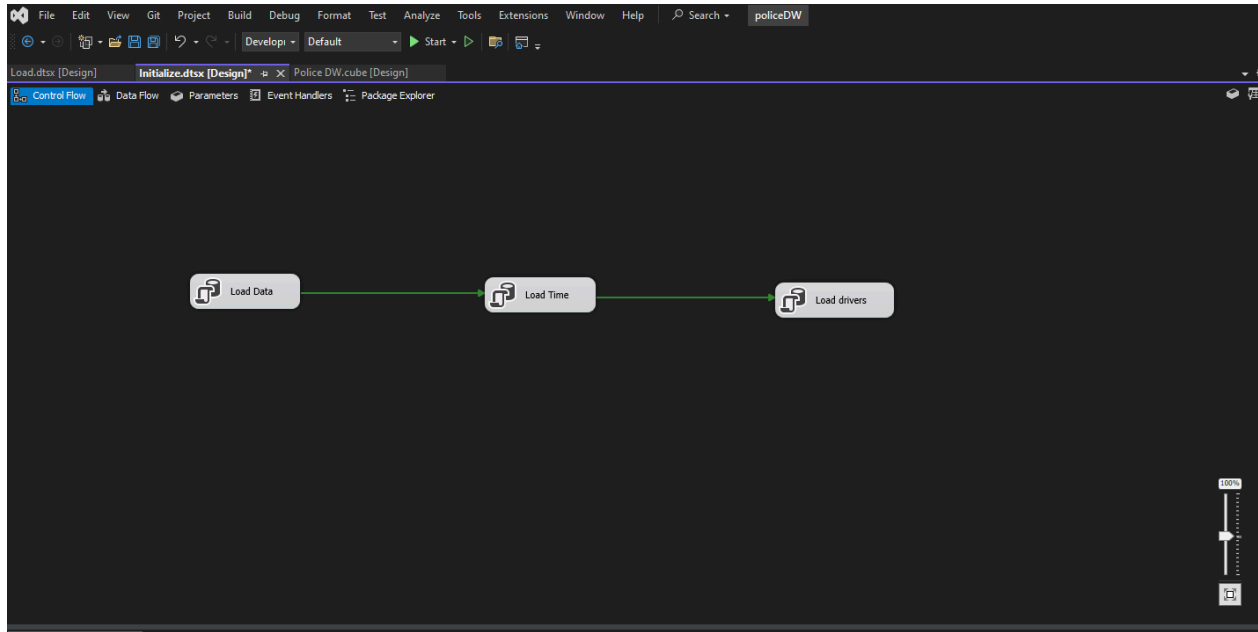
**FileConnection**  
Specifies the connection to the file that contains the query.

Browse... Build Query... Parse Query

OK Cancel Help

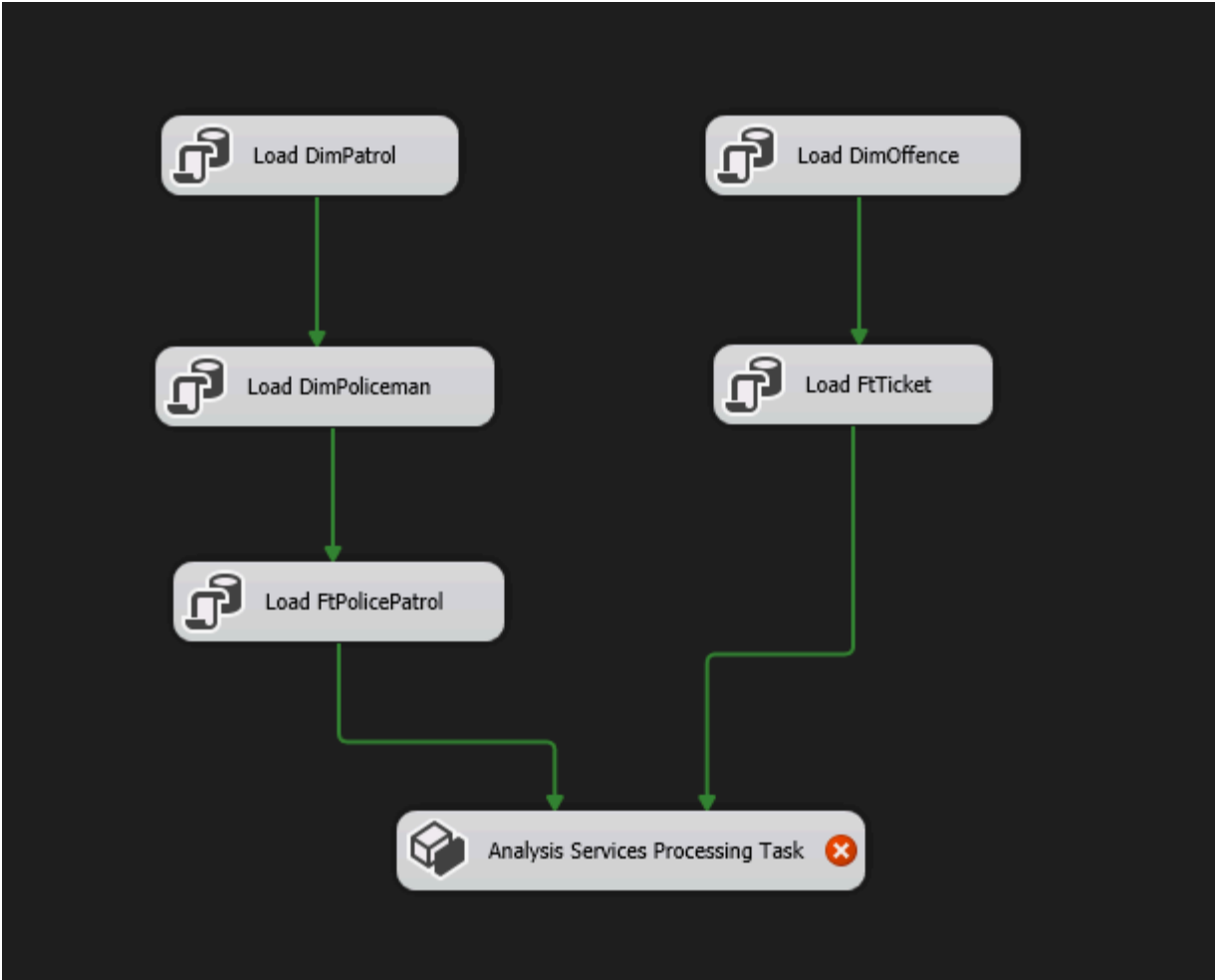
Repeat the process for all tasks.

Connect the tasks into some flow example : date -> time -> drivers



For better readability you can change the names of the tasks.

Create the second flow for the data which are not constant, as presented in the previous example, but now end it with the **Analysis Processing Task** from the toolbox as presented below. Remember about correct order, firstly Dimensions ETL should be runned, then Facts ETL, lastly process the project



Analysis Services Processing Task Editor

Configure the properties required to process Analysis Services objects.

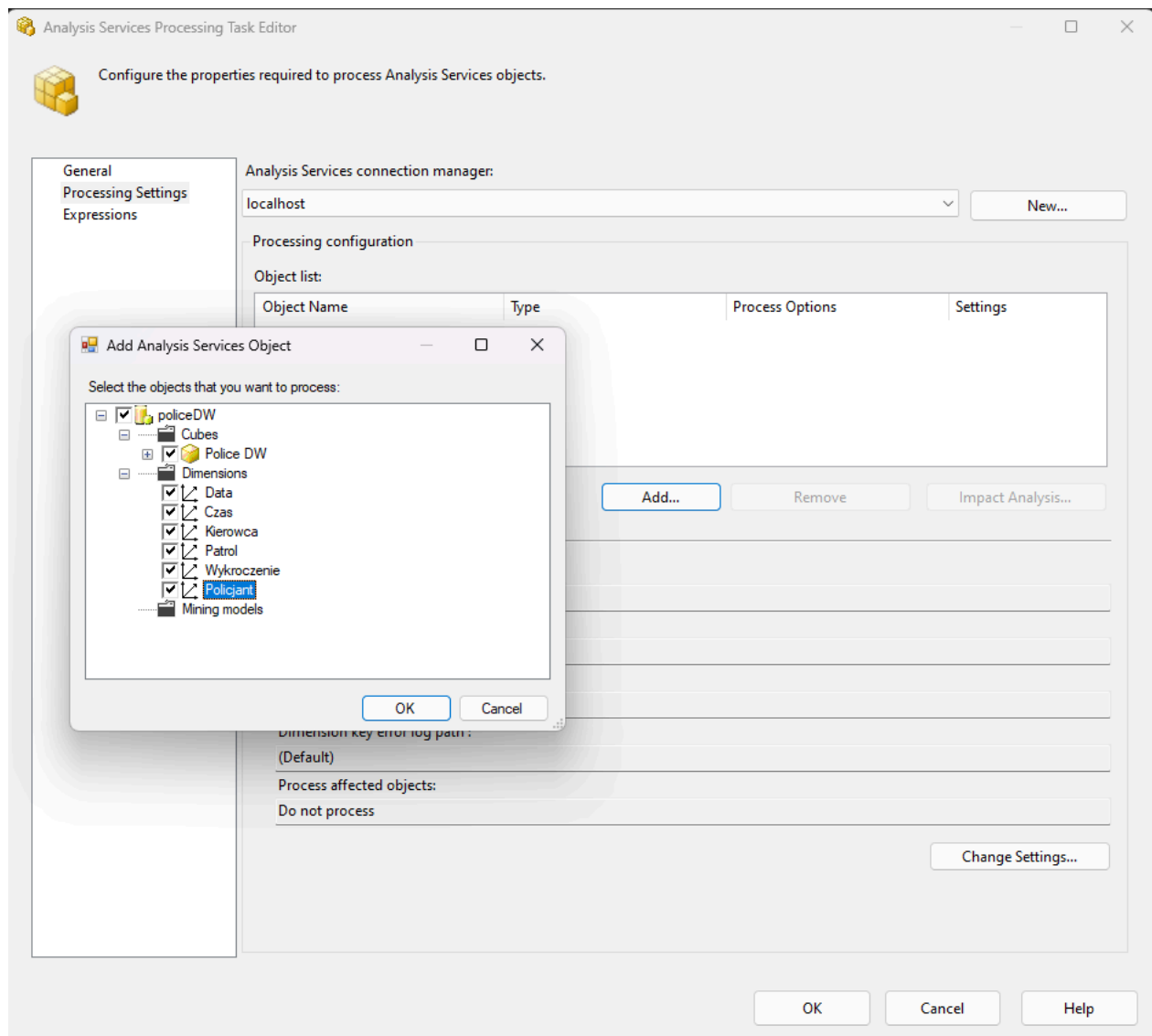
**General**  
Processing Settings  
Expressions

General	
Name	Analysis Services Processing Task
Description	Analysis Services Processing Task

**Name**  
Specifies the name of the task.

OK Cancel Help

Go to **Processing Settings**, click **Add** and select everything as shown.



Now you can launch your workflows by clicking **Start** at the top bar (similar to any other visual studio solutions).