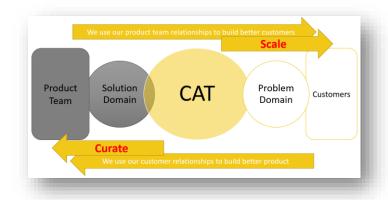
# Power Bl Development on Steroids

2022-01

## Rui Romano

**Power BI CAT** 

Microsoft





in https://www.linkedin.com/in/ruiromano/

https://ruiromanoblog.wordpress.com



Lives in Porto, Portugal

+15 years working on Microsoft Data Stack





#### **Slides here:**

https://github.com/RuiRomano/sessionslides

## **Power BI Dev on Steroids**

- Tools
- {Dev} Techniques
- Fast Paced ©

  Focus on the possibilities not details...

## **Tools**

My <u>personal</u> take on:

- DAX Studio
- Tabular Editor
- ALM Toolkit



#### **DAX Studio**

<a href="https://daxstudio.org/">https://daxstudio.org/</a> by Darren Gosbell

#### Main Use Cases:

- DAX Query Editor / Builder / Formatter
- DAX Performance Tuning & Debugging
- Quick Inspect Model w/ "View Metrics"
- Export Data: Folder / SQL Server



Learn more: Tool Intro

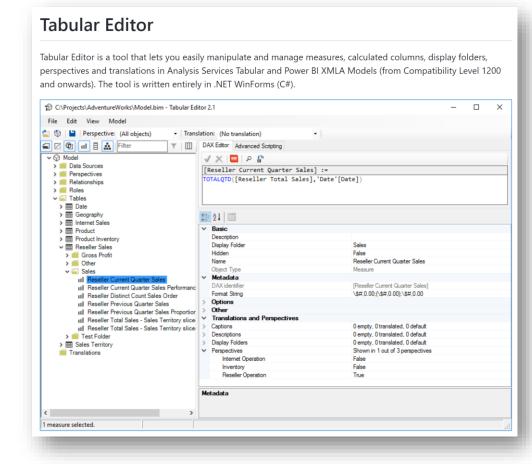
### **Tabular Editor**

https://tabulareditor.com/ by Daniel Otykier

Massive productivity boost!

#### Main use cases:

- Model Development Efficiently & Faster
- Deployment with options (ex: only schema) ⊕
- Automation with Scripting
- Copy items between PBIX files
- Best Practices Analyzer
- Restore a PBIX from powerbi.com ⊕

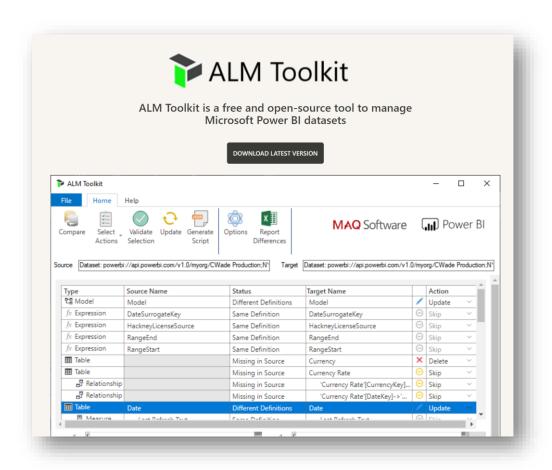


Learn more: Tool Intro

#### **ALM Toolkit**

http://alm-toolkit.com/
by Christian Wade
Schema diff tool for Tabular Datasets
Main Use Cases:

- Compare between PBIX Files
- Compare local to published ⊕
- Merge models => Multiple Developers!



Learn more: <u>Tool Intro</u>

## **Development Techniques**

```
mirror object to mirror
mirror_object
peration == "MIRROR_X":
irror_mod.use_x = True
urror_mod.use_y = False
irror_mod.use_z = False
 operation == "MIRROR_Y"
irror_mod.use_x = False
lrror_mod.use_y = True
lrror_mod.use_z = False
 _operation == "MIRROR_Z"
 lrror_mod.use_x = False
 itrror_mod.use_y = False
 lrror_mod.use_z = True
 selection at the end -add
  ob.select= 1
  er ob.select=1
   ntext.scene.objects.action
  "Selected" + str(modification
   irror ob.select = 0
 bpy.context.selected_obj
  lata.objects[one.name].sel
 mint("please select exactle
  --- OPERATOR CLASSES ----
    vpes.Operator):
    X mirror to the selected
   ject.mirror_mirror_x"
 ext.active_object is not
```

## Create your own Power BI Playground

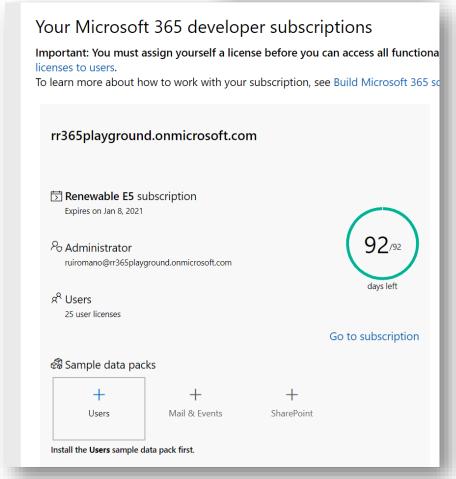
Very useful to try admin features ©

## Create a 365 Developer subscription

- 90 days (renew automatically, if used for DEV)
- 25 Licenses of O365 E5 (PowerBI, PowerApps, PowerAutomate)
- Full Tenant Control







## **Use Templates!**

- FastTrack to new Developments
- Theme files Much more than just colors
- Built in common tables Calendar & Time Calculation Groups About

Sample PBIT Download



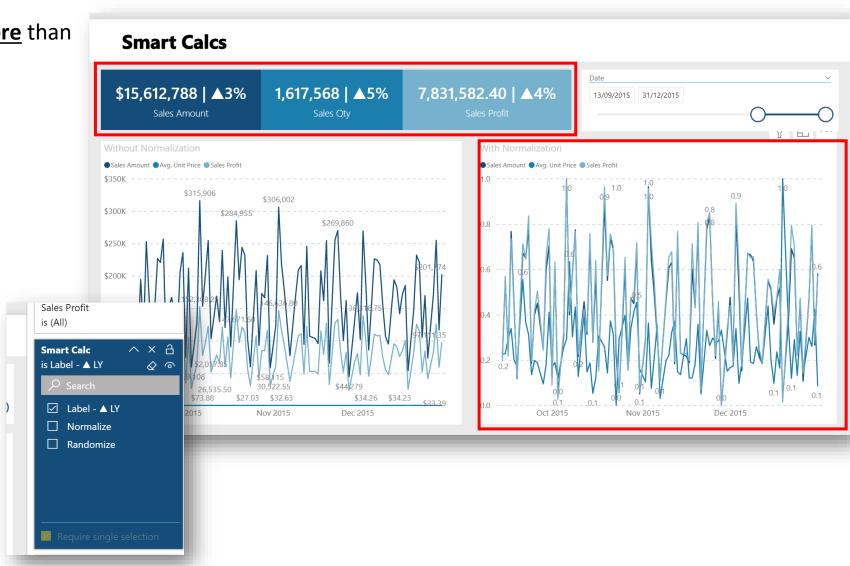


## "Smart" Calculation Groups

Calculation Groups can do <u>much more</u> than just Time Aggregations / Variations

Other very useful use cases:

- Auto Time Variation on Cards
- Normalization
- Randomize



## **REST API – Power BI DevOps**

Avoid multiple development files

Declare your deployment strategy

Automate the deployment using REST API's

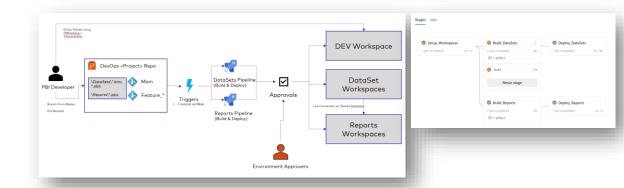
You can make mistakes, the computer don't ©

### If you have Premium ♥

**Deployment Pipelines** 

Must Watch: Daniel Otykier Session

- Azure DevOps
- Tabular Editor / bim file vs pbix
- REST API's



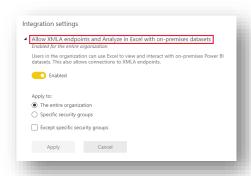
Links: pbidevops

## **REST API - Dataset Execute Queries**

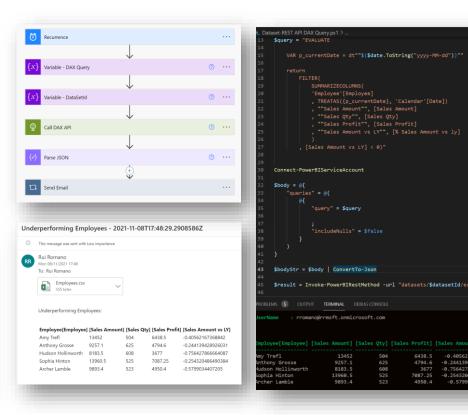
- The coolest API! ©
- Useful Scenarios:

   Data Integration (\*limited)
   Data Testing blog post
   Alerting System using Power BI Data
   App/Website integrations
- Works on Premium & Shared (PRO)
- Requirements
   "Build" permission on the dataset
   "Allow XMLA Endpoints and Analyze in Excel"
- Main Limitations
   Result sets capped to 100k rows
   No parallel queries

Script: execute dax in PS







## Thanks!

- 🏏 @RuiRomano
- in https://www.linkedin.com/in/ruiromano/
- https://ruiromanoblog.wordpress.com