Power BI CICD, 1 Year Later

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About me

Business Intelligence Architect @ Lucient ITALIA

+10 years in Microsoft “Data Realm”

Giving my little contribution to the community

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linkedin.com/in/riccardo-perico

github.com/R1k91

medium.com/riccardo-perico

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Who was here last year?

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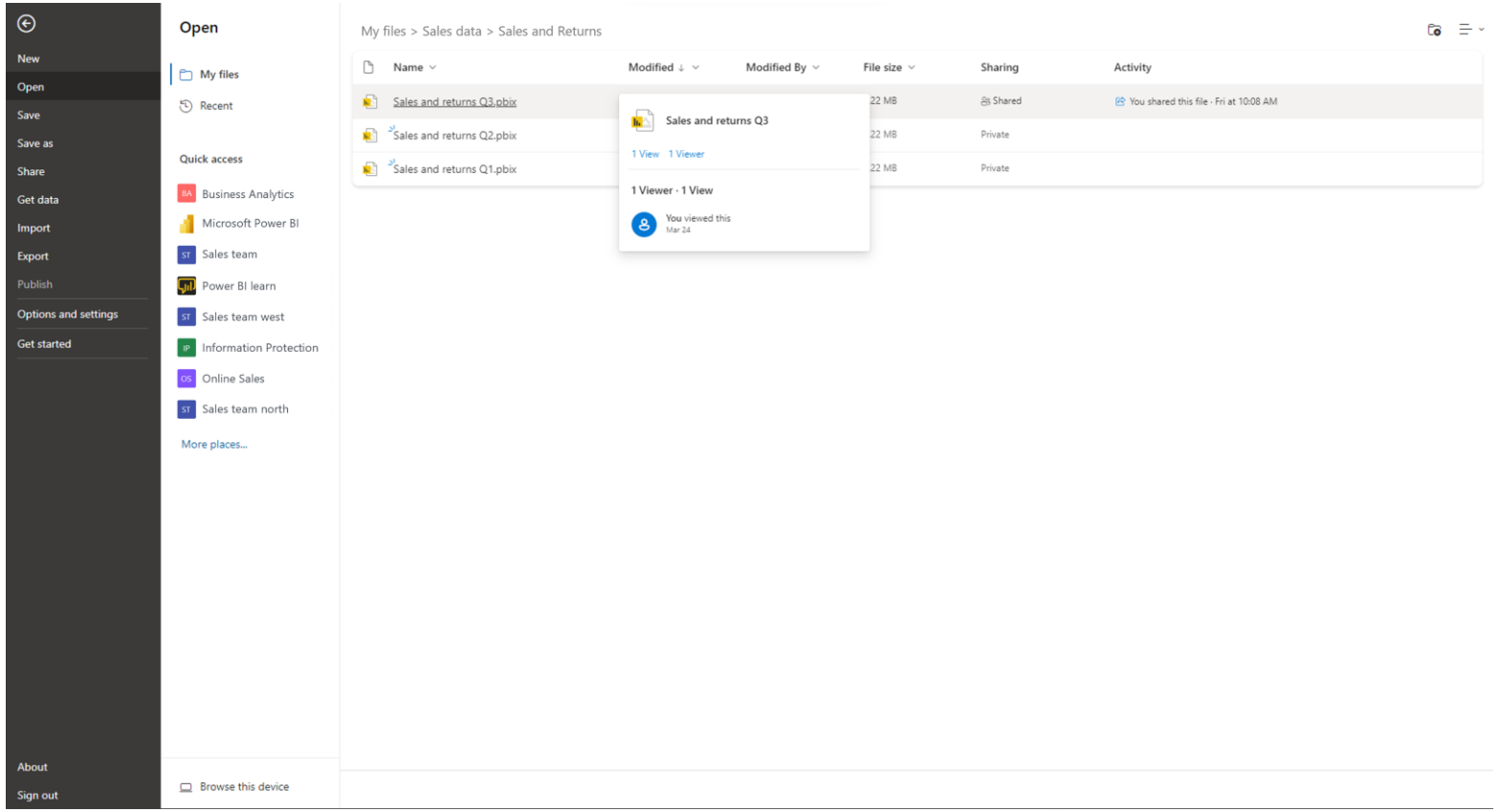
What did we say?

The basic option



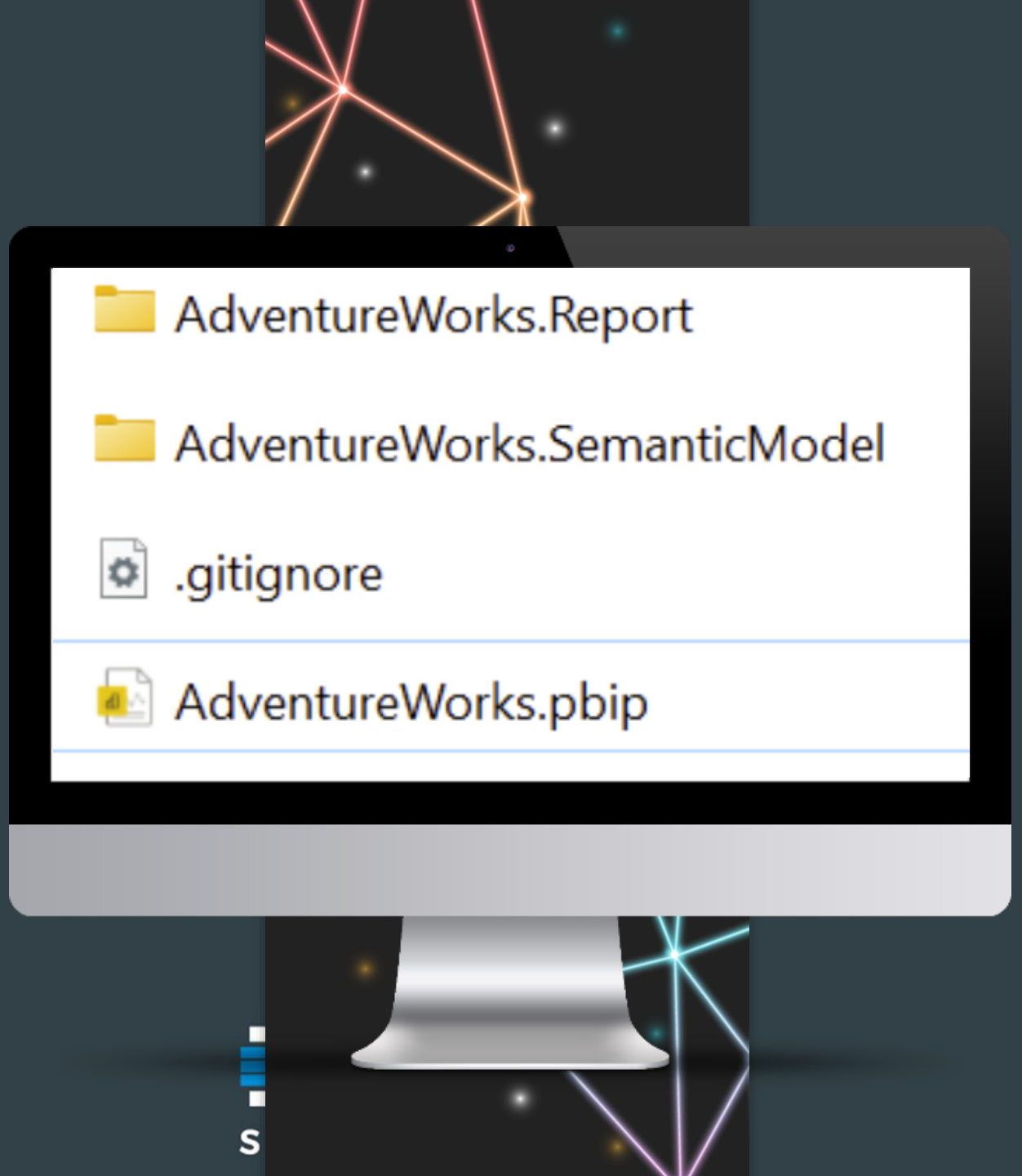
Developer options as of last year

- Microsoft: Power BI Desktop Developer Mode
- Microsoft+3rd party: Tabular Model Definition Language + External Tools

Topic	PBIP	TMDL + Ext. Tools	Result
Source Control for dataset	Single .bim file in TMLS	Folders/Files in TMDL	2
Source Control for report	1-line undocumented format	Undocumented folders/files format	2
PBI Desktop -> Files Files -> PBI Desktop	Pretty automatic	Manual process	1
Two face edit for dataset	Low Complexity	Low Complexity	1
Two face edit for report (unsupported)	Quite Impossible	Low Complexity	2
Power Query change	Hard Complexity	Low Complexity	2
Workspace git integration – support	Yes (*)	No	1
Workspace git integration – changes capture Git -> wrksp	Yes (*)	N/A	1
Workspace git integration – changes capture Wkrsp -> Git	Yes (*)	N/A	1
Folders/files structure Models/Reports support	Yes	Yes	X
Workspace git integration - Models/Reports structure support	No (*)	N/A	X
Workspace git integration – live connected reports support	Yes (*)	N/A	1
Publish from PBI Desktop	Yes	Yes	X
Data while working in PBI Desktop	Yes	Need to rehydrate .pbit	1
Data while in PBI Service	Git integration -> After refresh setup (*) Manual publish -> Yes	Yes	2

(*)

What about now?



PBIP all the way

PBIP with steroids

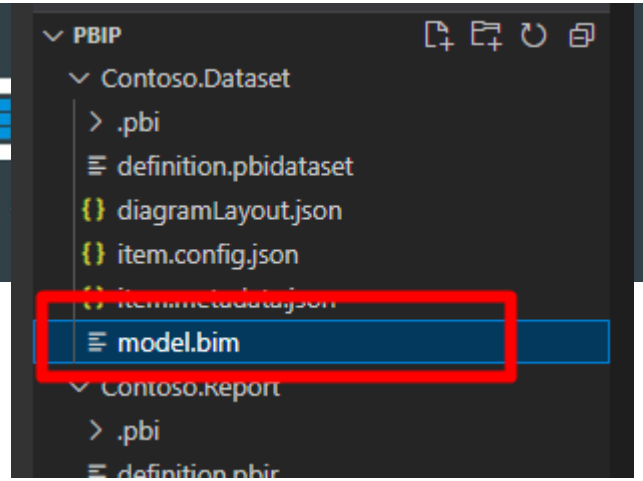
- TMDL native support
- Easy versioning for reporting (PBIR)
- Better Git integration in Fabric

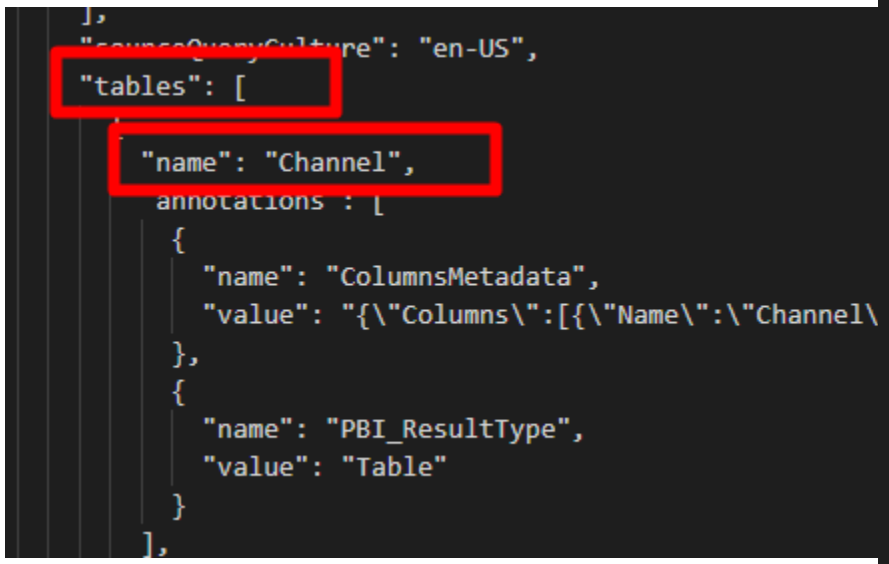
Topic	PBIP	TMDL + Ext. Tools	Result
Source Control for dataset	Folders/Files in TMDL	Folders/Files in TMDL	X
Source Control for report	Documented PBIR format (folders/files)	Undocumented folders/files format	1
PBI Desktop -> Files Files -> PBI Desktop	Pretty automatic	Manual process	1
Two face edit for dataset	Low Complexity	Low Complexity	X
Two face edit for report (unsupported)	Low Complexity	Low Complexity	X
Power Query change	Low Complexity	Low Complexity	X
Workspace git integration – support	Yes (*)	No	1
Workspace git integration – changes capture Git -> wrksp	Yes (*)	N/A	1
Workspace git integration – changes capture Wkrsp -> Git	Yes (*)	N/A	1
Folders/files structure Models/Reports support	Yes	Yes	X
Workspace git integration - Models/Reports structure support	No (*)	N/A	X
Workspace git integration – live connected reports support	Yes (*)	N/A	1
Publish from PBI Desktop	Yes	Yes	X
Data while working in PBI Desktop	Yes	Need to rehydrate .pbit	1
Data while in PBI Service	Git integration -> After refresh setup (*) Manual publish -> Yes	Yes	X

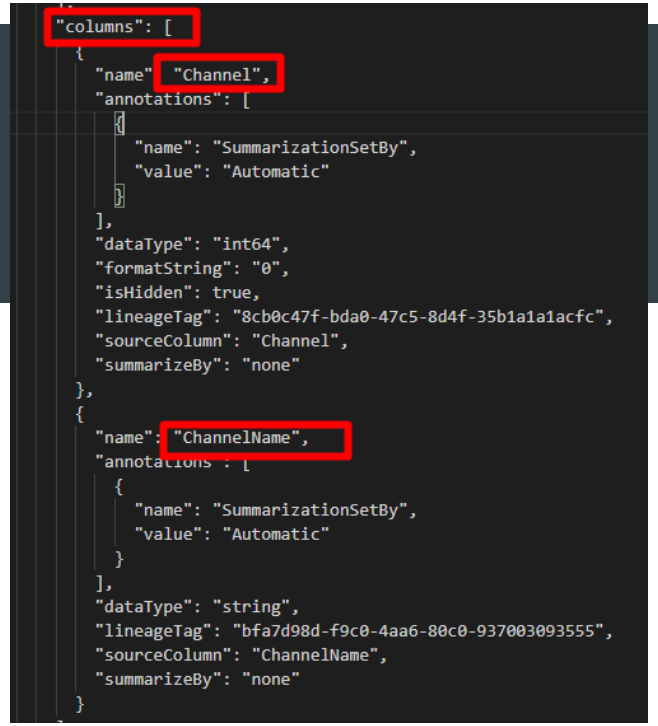
(*)

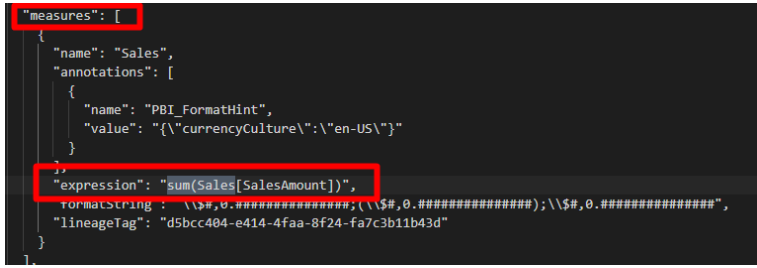
Demo

Semantic model in TMDL









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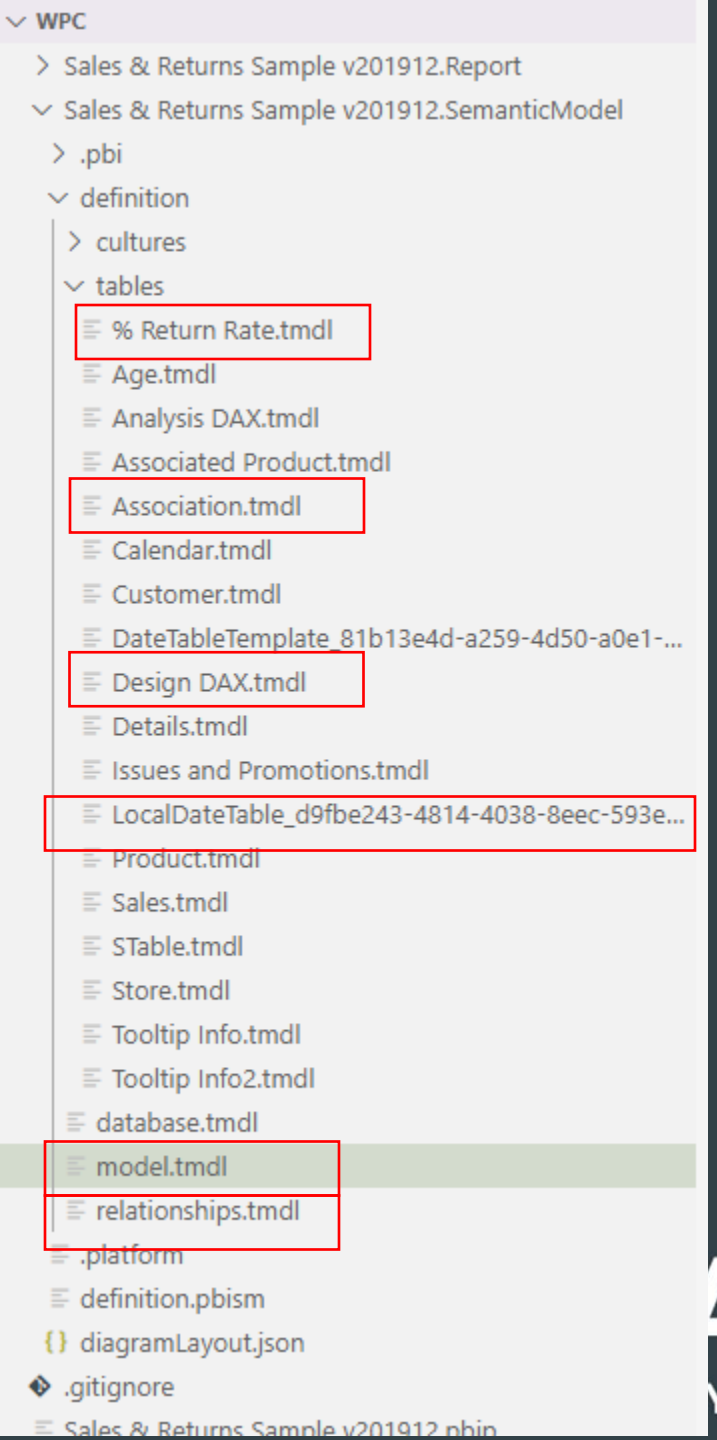


```
model Model
    culture: en-US
    defaultPowerBIDataSourceVersion: powerBI_V3
    sourceQueryCulture: es-MX
    dataAccessOptions
        legacyRedirects
        returnErrorValuesAsNull

annotation __PBI_TimeIntelligenceEnabled = 1

annotation PBIDesktopVersion = 2.138.782.0 (24.11)

annotation PBI_QueryOrder = ["Association","Sales","Store","Calendar","Associate

annotation PBI_ProTooling = ["DevMode"]

ref table Association
ref table DateTableTemplate_81b13e4d-a259-4d50-a0e1-7a39807f5f63
ref table Sales
ref table Store
ref table Calendar
ref table LocalDateTable_d9fbe243-4814-4038-8eec-593e864a563b
ref table 'Associated Product'
ref table 'Analysis DAX'
ref table Product
ref table 'Design DAX'
ref table '% Return Rate'
ref table Customer
ref table 'Issues and Promotions'
ref table Age
ref table STable
ref table 'Tooltip Info'
ref table 'Tooltip Info2'
ref table Details

ref cultureInfo en-US
```

```
table Customer
    lineageTag: a5974167-47c2-4f10-851b-a9b36245bddd

    column ID
        dataType: int64
        formatString: 0
        lineageTag: 3b7be8e0-e042-4490-b32e-65973b81ec20
        summarizeBy: none
        sourceColumn: ID

        annotation SummarizationSetBy = Automatic

    column Unit
        dataType: int64
        formatString: 0
        lineageTag: 46ab0a74-2701-4599-a92a-8bda599ad70b
        summarizeBy: sum
        sourceColumn: Unit

        annotation SummarizationSetBy = Automatic

    column Gender
        dataType: string
        lineageTag: e5478605-21a7-493d-ac01-0becf9263db3
        summarizeBy: none
        sourceColumn: Gender

        annotation SummarizationSetBy = Automatic
```

```
column Amount
    dataType: int64
    formatString: \$#,0;-\$#,0;\$#,0
    lineageTag: 0f3e8104-04cc-4713-b482-7a1f94571269
    summarizeBy: sum
    sourceColumn: Amount

    annotation SummarizationSetBy = Automatic

    annotation PBI_FormatHint = {"currencyCulture":"en-CA"}
```

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```
partition Customer-7e8cffbe-9644-4d2a-9653-8804b02c15eb = m
    mode: import
    source =
            let
                Source = Excel.Workbook(File.Contents("C:\Users\mimyersm\Desktop\Sales & Marketing Datas.xlsx"), null, true),
                Data_Sheet = Source{[Item="Data",Kind="Sheet"]}[Data],
                #"Promoted Headers" = Table.PromoteHeaders(Data_Sheet, [PromoteAllScalars=true]),
                #"Changed Type" = Table.TransformColumnTypes(#"Promoted Headers",{{"ID", Int64.Type}, {"ProductID", Int64.Type}, {"StoreID", Int64.Type}, {"Unit", Int64
                #"Removed Columns" = Table.RemoveColumns(#"Changed Type",{"Status"}),
                #"Merged Queries" = Table.NestedJoin(#"Removed Columns", {"ProductID"}, Product, {"ProductID"}, "Product", JoinKind.LeftOuter),
                #"Expanded Product" = Table.ExpandTableColumn(#"Merged Queries", "Product", {"Product", "Category", "Segment", "Price", "Price Range"}, {"Product.1", "(
                #"Renamed Columns" = Table.RenameColumns(#"Expanded Product",{{"Product.1", "Product"}}),
                #"Removed Columns1" = Table.RemoveColumns(#"Renamed Columns",{"ProductID"}),
                #"Replaced Value" = Table.ReplaceValue(#"Removed Columns1","M","Male",Replacer.ReplaceText,{"Gender"}),
                #"Replaced Value1" = Table.ReplaceValue(#"Replaced Value","F","Female",Replacer.ReplaceText,{"Gender"}),
                #"Merged Queries1" = Table.NestedJoin(#"Replaced Value1", {"StoreID"}, Store, {"StoreID"}, "Store", JoinKind.LeftOuter),
                #"Expanded Store" = Table.ExpandTableColumn(#"Merged Queries1", "Store", {"Store", "Type"}, {"Store.1", "Type"}),
                #"Renamed Columns1" = Table.RenameColumns(#"Expanded Store",{{"Store.1", "Store"}}),
                #"Merged Queries2" = Table.NestedJoin(#"Renamed Columns1", {"ID"}, #"Issues and Promotions", {"ID"}, "Issues and Promotions", JoinKind.LeftOuter),
                #"Removed Columns2" = Table.RemoveColumns(#"Merged Queries2",{"StoreID"}),
                #"Expanded Issues and Promotions" = Table.ExpandTableColumn(#"Removed Columns2", "Issues and Promotions", {"Issue", "Promotion"}, {"Issue", "Promotion"
                #"Removed Columns3" = Table.RemoveColumns(#"Expanded Issues and Promotions",{"Week"}),
                #"Merged Queries3" = Table.NestedJoin(#"Removed Columns3", {"ID"}, Sales, {"ID"}, "Sales", JoinKind.LeftOuter),
                #"Expanded Sales" = Table.ExpandTableColumn(#"Merged Queries3", "Sales", {"Amount"}, {"Amount"}),
                #"Merged Queries4" = Table.NestedJoin(#"Expanded Sales", {"Age"}, Age, {"Age"}, "Age.1", JoinKind.LeftOuter),
                #"Expanded Age.1" = Table.ExpandTableColumn(#"Merged Queries4", "Age.1", {"Age Bucket"}, {"Age Bucket"}),
                #"Removed Columns4" = Table.RemoveColumns(#"Expanded Age.1",{"Age"}),
                #"Renamed Columns2" = Table.RenameColumns(#"Removed Columns4",{{"Age Bucket", "Age"}}),
                #"Removed Columns5" = Table.RemoveColumns(#"Renamed Columns2",{"Price"})
            in
                #"Removed Columns5"

annotation PBI_QueryRelationships = {"columnCount":13,"keyColumnNames":[],"queryRelationships":[{"keyColumnCount":1,"keyColumn":0,"otherKeyColumnIdentity":"Section1/Iss

annotation PBI_NavigationStepName = Navigation

annotation PBI_ResultType = Exception
```

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```
table 'Analysis DAX'
    lineageTag: 445c1cb0-47b0-4e8b-986b-300a640b0447

    measure 'Net Sales' = CALCULATE(SUM(Sales[Amount]),Sales[Status]="Sold")
        formatString: \$#,0;-\$#,0;\$#,0
        lineageTag: cd2e7756-eb39-41a6-a73c-36aecb7b43c8

        annotation PBI_FormatHint = {"currencyCulture":"en-CA"}

    measure 'Net Sales PM' = CALCULATE([Net Sales],PREVIOUSMONTH('Calendar'[Date]))
        formatString: \$#,0;-\$#,0;\$#,0
        lineageTag: b71875ff-9152-49a3-9651-654f7beb05e9

        annotation PBI_FormatHint = {"currencyCulture":"en-CA"}

    measure 'Last 2 Months Net Sales' = [Net Sales]+[Net Sales PM]
        formatString: 0
        lineageTag: 476b56d5-ccb7-4f18-a60a-d1ed841caaf7

    measure 'Net Sales Variance' = [Net Sales]-[Net Sales PM]
        formatString: \$#,0;-\$#,0;\$#,0
        lineageTag: ea94c27a-07f9-4dcb-9c51-33ecf46a07b2

        annotation PBI_FormatHint = {"currencyCulture":"en-CA"}
```

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```
relationship a3dbf965-d829-4162-96fc-d8c4a82aaefc
    fromColumn: Sales.Date
    toColumn: Calendar.Date

relationship bd728e6c-e5e7-4b83-98c6-677efdcc0eb6
    crossFilteringBehavior: bothDirections
    fromCardinality: one
    fromColumn: Customer.ID
    toColumn: Sales.ID

relationship fc9659a9-cbb8-4acb-9331-54826be4ab0a
    fromColumn: Association.LeftItemSetId
    toColumn: Product.ProductID
```

```
relationship 5fb6421a-c1c5-4969-95e5-0939e04d5c72
    isActive: false
    crossFilteringBehavior: bothDirections
    fromCardinality: one
    fromColumn: Product.Product
    toColumn: 'Associated Product'.Product
```

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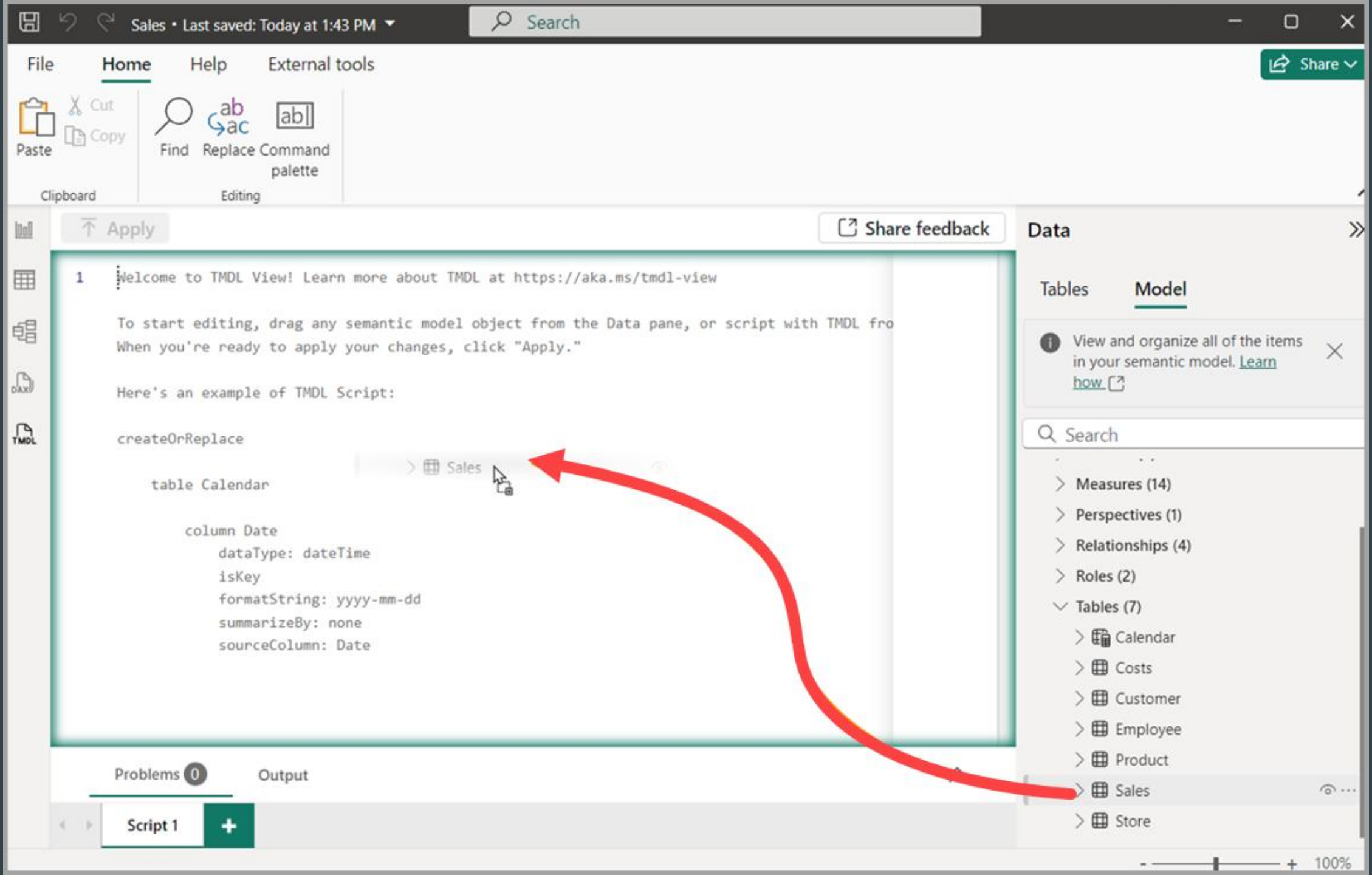
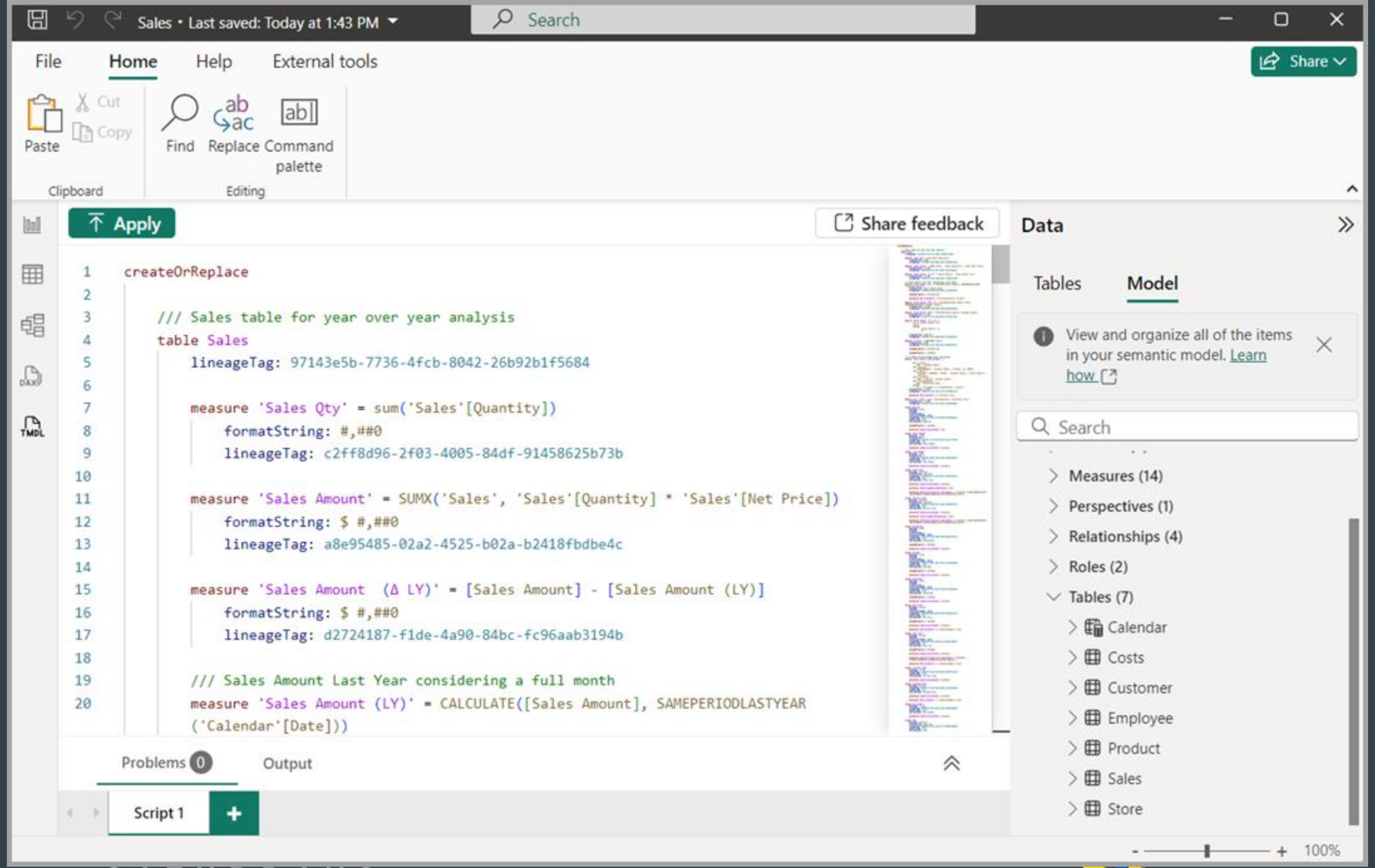
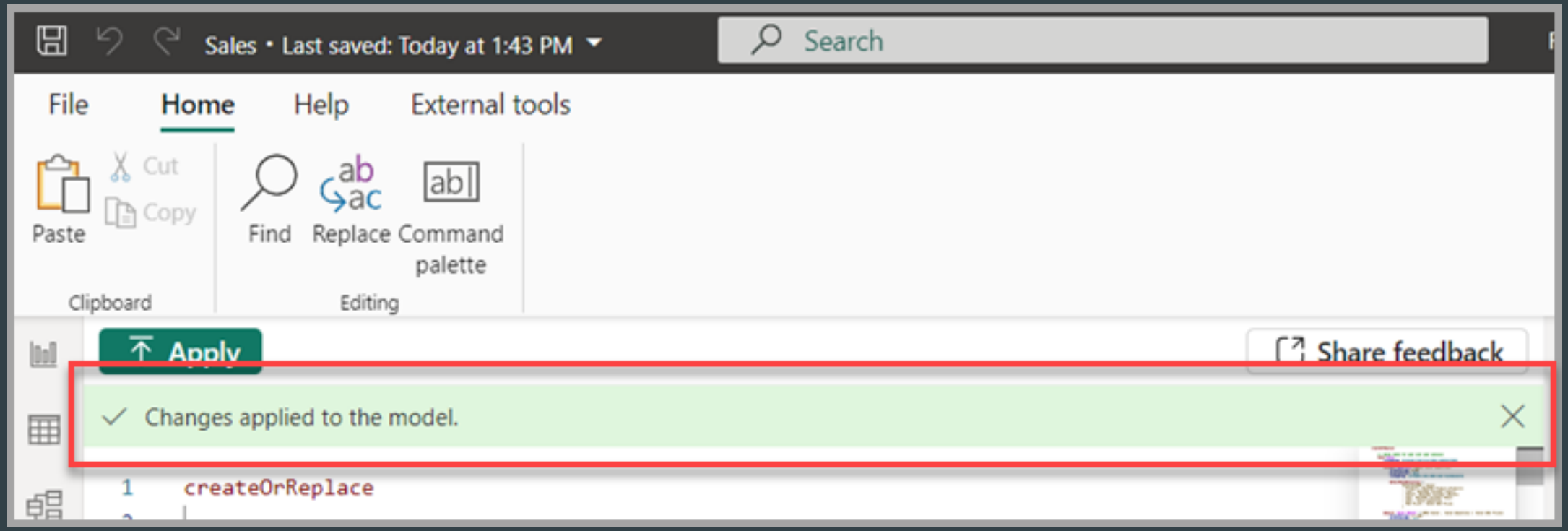

Sales • Last saved: Today at 1:43 PM
Search
File
Home
Help
External tools
Share
Paste
Cut
Copy
Find
Replace
Command palette
Clipboard
Editing
Apply
Share feedback
1 Welcome to TMDL View! Learn more about TMDL at https://aka.ms/tmdl-view
To start editing, drag any semantic model object from the Data pane, or script with TMDL fro
When you're ready to apply your changes, click "Apply."
Here's an example of TMDL Script:
createOrReplace
table Calendar
column Date
dataType: dateTime
isKey
formatString: yyyy-mm-dd
summarizeBy: none
sourceColumn: Date
Sales
Problems 0
Output
Script 1
Data
Tables
Model
View and organize all of the items in your semantic model. Learn how
Search
Measures (14)
Perspectives (1)
Relationships (4)
Roles (2)
Tables (7)
Calendar
Costs
Customer
Employee
Product
Sales
Store
100%


Sales • Last saved: Today at 1:43 PM
Search
File
Home
Help
External tools
Share
Cut
Copy
Paste
Find
Replace
Command palette
Clipboard
Editing
Apply
Share feedback
Data
Tables
Model
View and organize all of the items in your semantic model. Learn how
Search
Measures (14)
Perspectives (1)
Relationships (4)
Roles (2)
Tables (7)
Calendar
Costs
Customer
Employee
Product
Sales
Store
createOrReplace
/// Sales table for year over year analysis
table Sales
lineageTag: 97143e5b-7736-4fcb-8042-26b92b1f5684
measure 'Sales Qty' = sum('Sales'[Quantity])
formatString: #,##0
lineageTag: c2ff8d96-2f03-4005-84df-91458625b73b
measure 'Sales Amount' = SUMX('Sales', 'Sales'[Quantity] * 'Sales'[Net Price])
formatString: $ #,##0
lineageTag: a8e95485-02a2-4525-b02a-b2418fbdbe4c
measure 'Sales Amount (Δ LY)' = [Sales Amount] - [Sales Amount (LY)]
formatString: $ #,##0
lineageTag: d2724187-f1de-4a90-84bc-fc96aab3194b
/// Sales Amount Last Year considering a full month
measure 'Sales Amount (LY)' = CALCULATE([Sales Amount], SAMEPERIODLASTYEAR ('Calendar'[Date]))
Problems 0
Output
Script 1
100%



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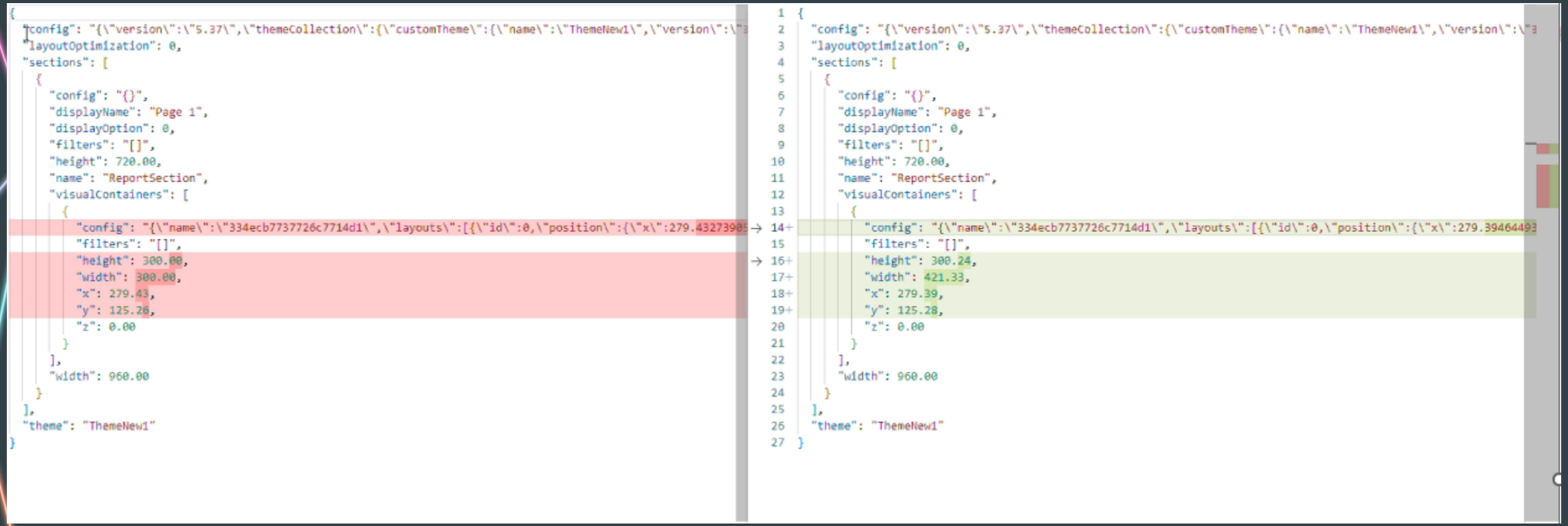
Layout in PBIR



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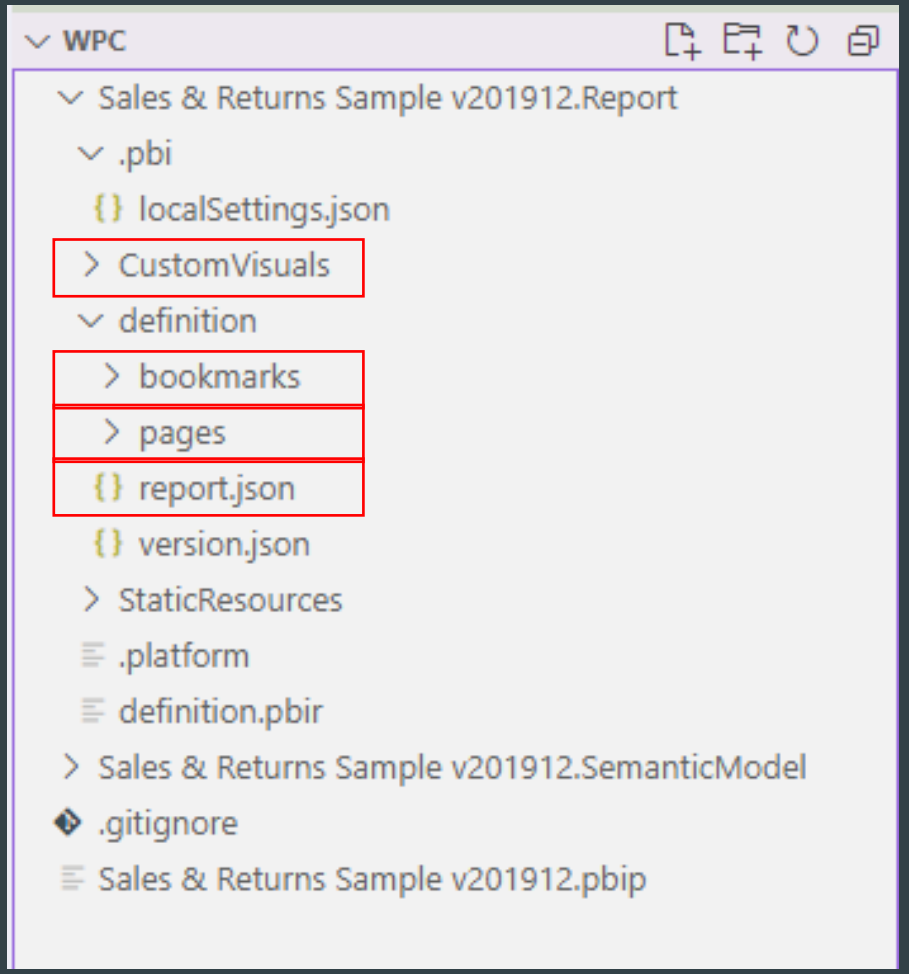

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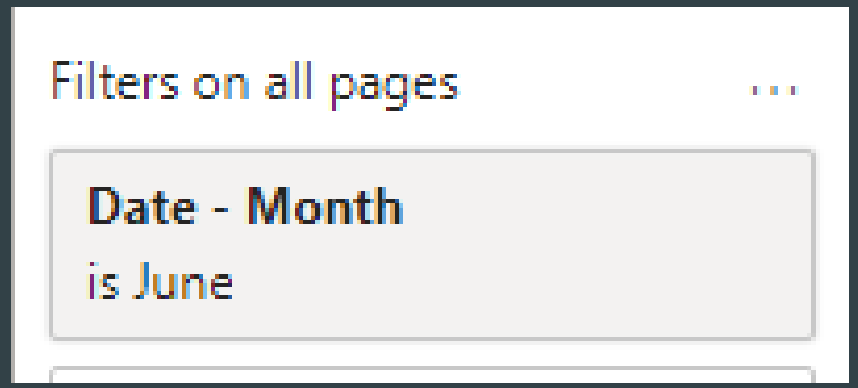


```
},
"filter": {
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  "From": [
    {
      "Name": "l",
      "Entity": "LocalDateTable_d9fbe243-4814-4038-8eec-593e864a563b",
      "Type": 0
    }
  ],
  "Where": [
    {
      "Condition": {
        "In": {
          "Expressions": [
            {
              "Column": {
                "Expression": {
                  "SourceRef": {
                    "Source": "l"
                  }
                },
                "Property": "Month"
              }
            }
          ],
          "Values": [
            [
              {
                "Literal": {
                  "Value": "'June'"
                }
              }
            ]
          ]
        }
      },
```

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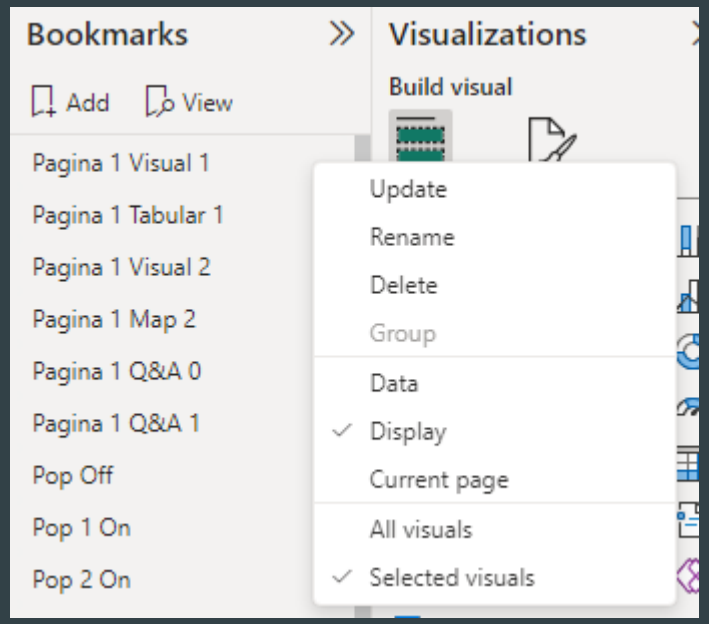


```
{
  "$schema": "https://developer.microsoft.com/json-schemas/fabric/item/report/def
  "displayName": "Pagina 3 forecast ON",
  "name": "Bookmark12b189c03ce45b96baa7",
  "options": {
    "applyOnlyToTargetVisuals": true,
    "targetVisualNames": [
      "1281c65b70d67897c60d",
      "5276397025743c6e30ec",
      "60430d7c464e7a5cd97b",
      "805719ca6000cb000be2",
      "5c17183ce602570c8e09",
      "031aa35ec577ca25a558",
      "30039fa5b79071ccb4c5"
    ],
    "suppressActiveSection": true,
    "suppressData": true
  },
  "explorationState": {
    "version": "1.3",
    "activeSection": "ReportSectiona37d01e834c17d07bbeb",
    "filters": {
      "byExpr": [
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          "name": "Filter",
          "type": "Categorical",
          "filter": {
            "Version": 2,
            "From": [
              {
                "Name": "l",
                "Entity": "LocalDateTable_d9fbe243-4814-4038-8eec-593e864a563b",
                "Type": 0
              }
            ],
            "Where": [
              {
                "Condition": {
                  "In": {
                    "Expressions": [
                      {
                        "Column": {
                          "Expression": {
                            "SourceRef": {
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                            }
```


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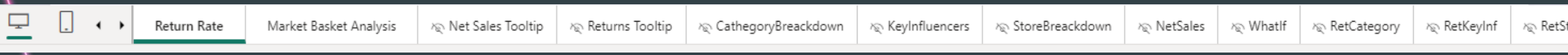


```
{
  "$schema": "https://developer.microsoft.com/json-schemas/fabric/iter
  "pageOrder": [
    "ReportSectiond8ab5d035cceb8586528",
    "ReportSection1dea67c2520bce38f54f",
    "ReportSection4b3fbaa7dd7908d906d9",
    "ReportSection998e2850a99cabad87e8",
    "ReportSectiona37d01e834c17d07bbeb",
    "ReportSectione5a0c158d21b780789a8",
    "ReportSectionc0cfc0e4243d2494dbe0",
    "ReportSection2453dea2053ed300eb7c",
    "ReportSectiona63d9045ac68091ae138",
    "ReportSectionefae9520722c310c4ba0",
    "ReportSectionf037c36b9a1a39cc3b14",
    "ReportSection76e99cbc27dbb0759922",
    "ReportSection44182d852270e8b765cb",
    "ReportSection79828a20a2b300a5d99b",
    "ReportSection23904f9ac2e638d5ed18",
    "ReportSection406bc05d6280a2c44873",
    "ReportSectionac989ac185c4a0764a5e",
    "ReportSection3cf1f64a09676ebe5725"
  ],
  "activePageName": "ReportSectiona37d01e834c17d07bbeb"
}
```

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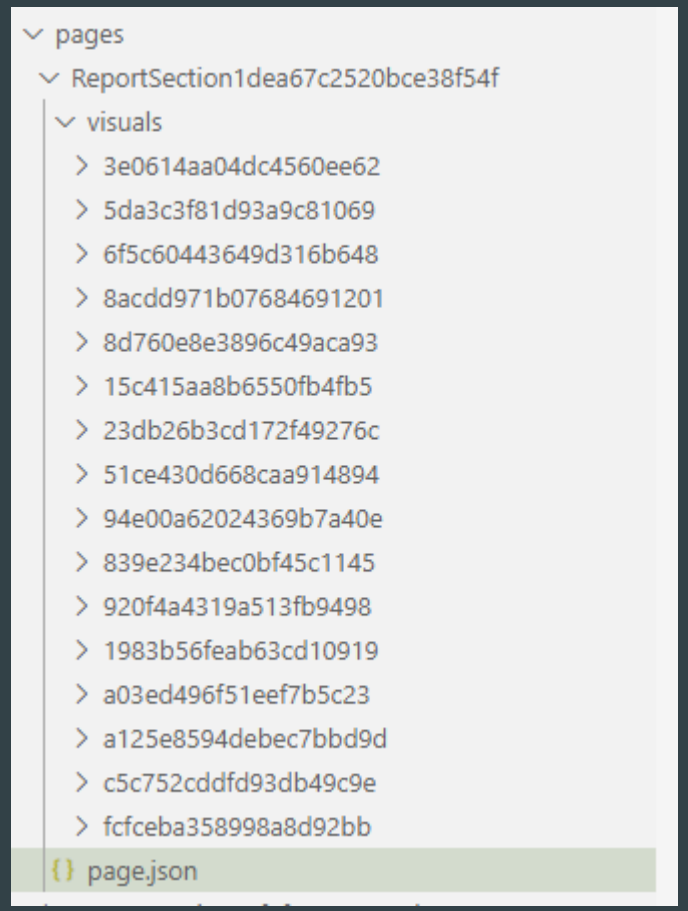

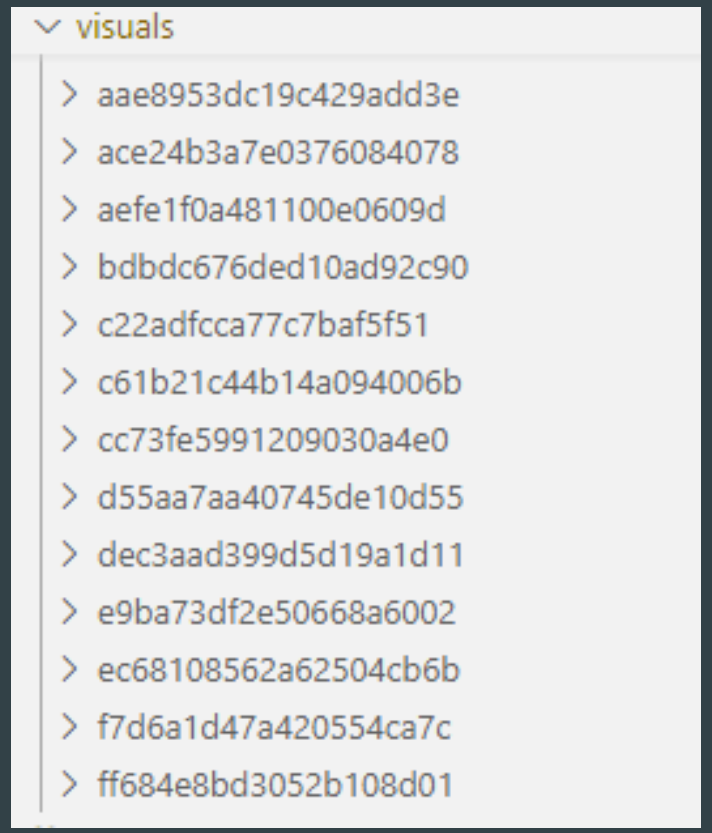

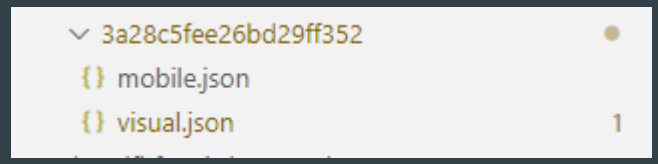

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```
"visual": {
  "visualType": "barChart",
  "query": {
    "queryState": {
      "Category": {
        "projections": [
          {
            "field": {
              "Column": {
                "Expression": {
                  "SourceRef": {
                    "Entity": "Produc
                  }
                },
                "Property": "Category
              }
            },
            "queryRef": "Product.Cate
            "active": false
          },
          {
            "field": {
              "Column": {
                "Expression": {
                  "SourceRef": {
                    "Entity": "Produc
                  }
                },
                "Property": "Segment"
              }
            },
            "queryRef": "Product.Segment",
            "active": false
          },
        },
        "Y": {
          "projections": [
            {
              "field": {
                "Measure": {
                  "Expression": {
                    "SourceRef": {
                      "Entity": "Analysis DAX"
                    }
                  },
                  "Property": "Returns"
                }
              },
              "queryRef": "Analysis DAX.Returns"
            }
```

DATA SATURDAYS

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```
{
"$schema": "https://developer.microsoft.com/json-schemas/fabric/item/report/definition/report/1.2.0/schema.json",
"themeCollection": {
```

developer.microsoft.com/json-sc

https://developer.microsoft.com/json-schemas/fabric/item/report/definition/report/1.2.0/schema.json


```
{
    "$id": "https://developer.microsoft.com/json-schemas/fabric/item/report/definition/report/1.2.0/schema.json",
    "$schema": "http://json-schema.org/draft-07/schema#",
    "title": "Report",
    "description": "Defines a report and its pages, visuals, settings, and additional information.",
    "type": "object",
    "properties": {
        "$schema": {
            "description": "Defines the schema to use for an item.",
            "type": "string",
            "const": "https://developer.microsoft.com/json-schemas/fabric/item/report/definition/report/1.2.0/schema.json"
        },
        "themeCollection": {
            "$ref": "#/definitions/ThemeCollection",
            "description": "Define a theme (built-in and/or a custom theme) to be used for this report."
        },
        "layoutOptimization": {
            "$ref": "#/definitions/LayoutOptimization",
            "description": "Is the report optimized for mobile consumption."
        },
        "filterConfig": {
            "description": "Filters that apply to the entire report (all pages and all visuals).",
            "$ref": "#/definitions/FilterConfig"
        },
        "objects": {
            "description": "Specifies the formatting to be set for different \"objects\" of a report.",
            "$ref": "#/definitions/ReportFormattingObjects"
        },
        "reportSource": {
            "description": "Defines how the report was created.",
            "type": "string",
            "anyOf": [
                {
                    "const": "Default",
                    "description": "A blank report generated by Power BI apps."
                },
                {
                    "const": "SharePoint",
                    "description": "A quick create report created from a SharePointList."
                },
                {
                    "const": "Teams",
                    "description": "A quick create report created from Teams."
                },
```


DATA SATURDAYS

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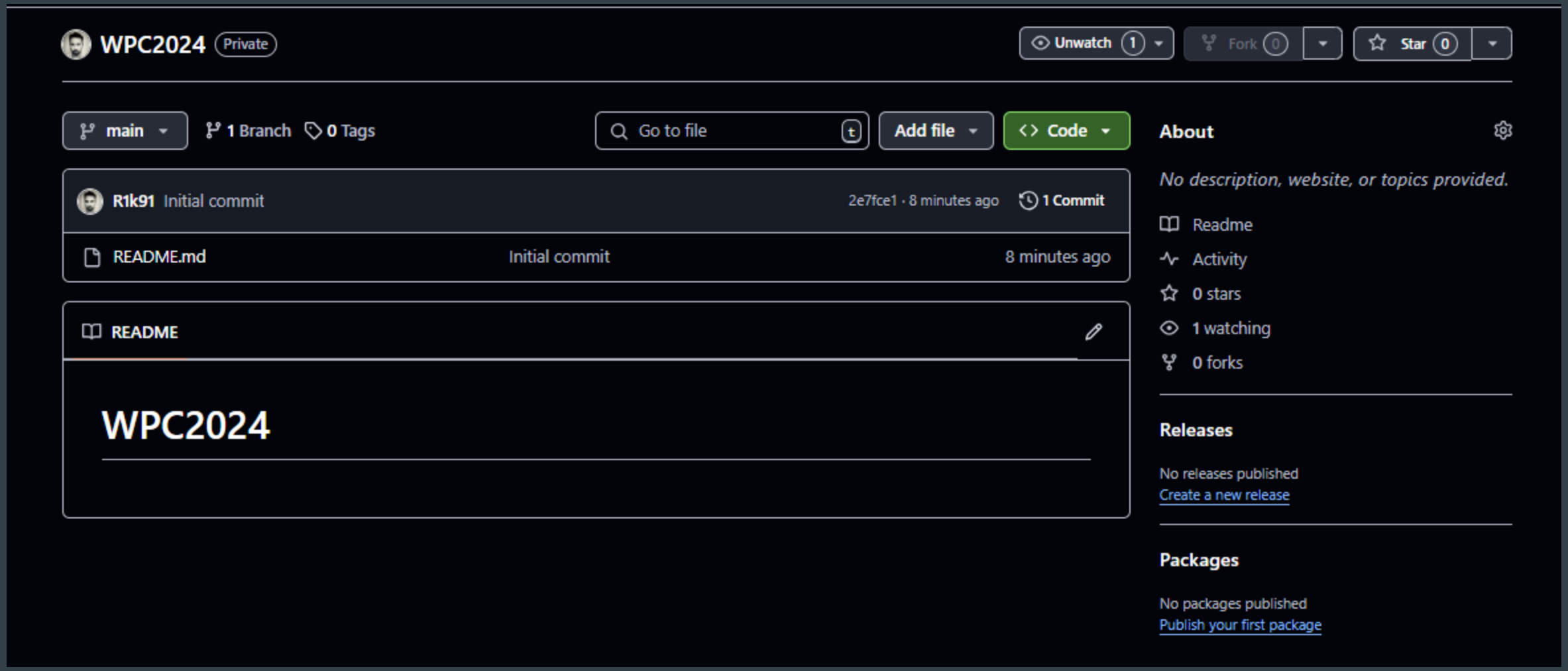
Versioning



DATA SATURDAYS

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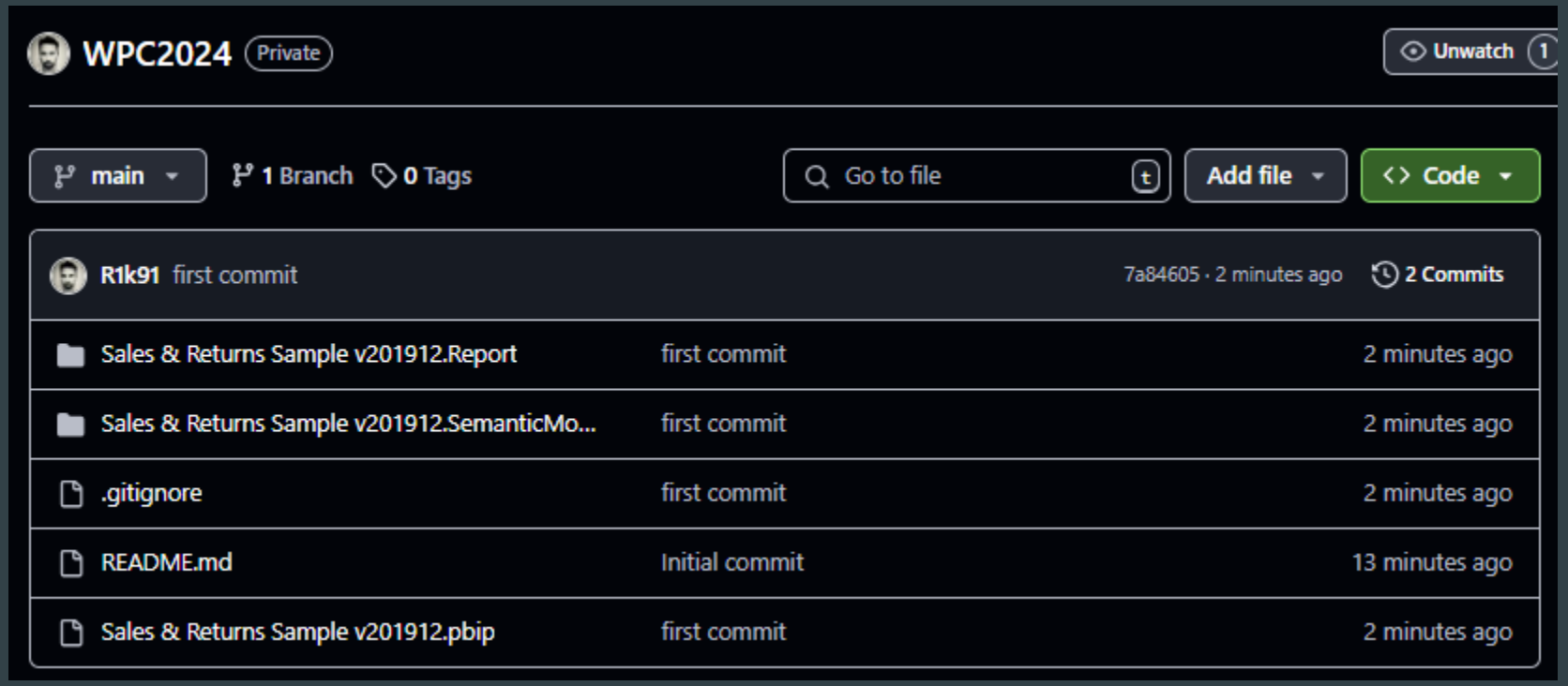

DATA SATURDAYS

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Workspace settings

- General
- License info
- Azure connections
- System storage
- Git integration
- OneLake
- Workspace identity
- Network security

Power BI

Delegated Settings

Data Engineering/Science

Data Factory

Git integration

Connect to Git to manage your code and back up your work. Learn more

Preview items Some item types are only available in preview when using Git. Learn more

Connect Git provider and account

Provider
Azure DevOps
AAD account
riccardo.perico@lucient.it

Log out

Manage all accounts

Connect Git repository and branch

Organization *
ONE4-BI

Project *
WPC2024

Git repository *
WPC2024

Branch *
master

Git folder
Enter name of folder

Connect and sync | Cancel

DAT SATURD

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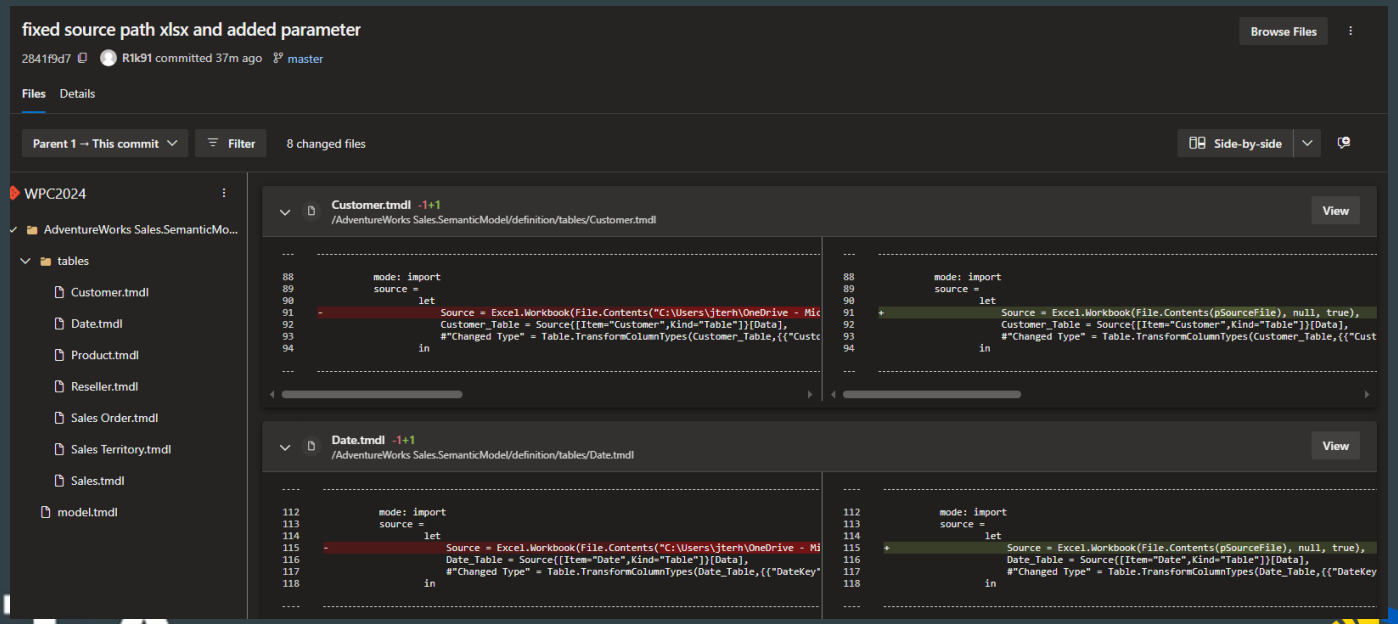
Name	Git status	Type	Task	Owner	Refreshed	Next refresh
AdventureWorks Sales	Synced	Report	—	WPC2024	11/17/2024, 11:57:49 AM	—
AdventureWorks Sales	Synced	Semantic model	—	WPC2024	11/17/2024, 11:57:4...	N/A

master Last synced: 11/17/2024 at 11:58 AM 2841f9d7



DATA SATURDAYS

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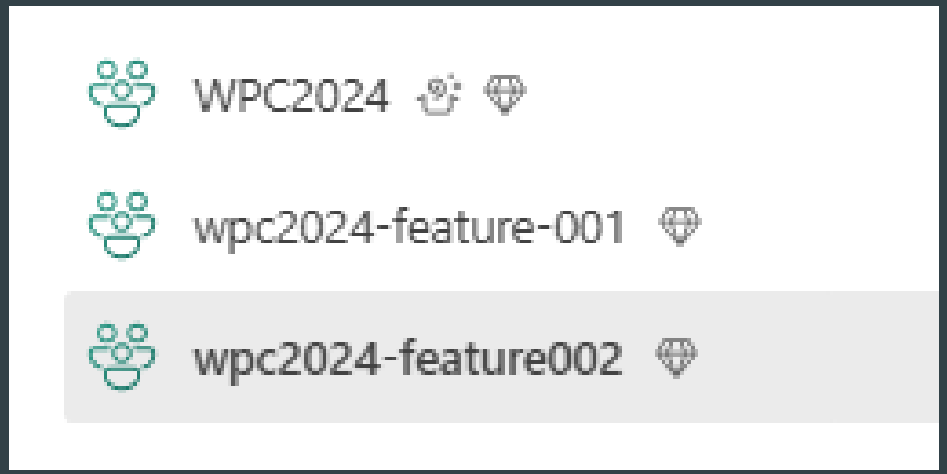

DATA SATURDAYS

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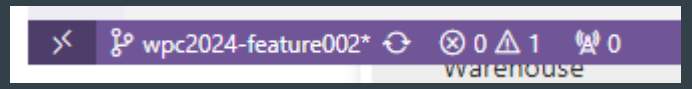

SOURCE CONTROL

SOURCE CONTROL

Message (Ctrl+Enter to commit on "wpc2024...

Commit

Changes 4

visual.json AdventureWorks Sales.Report\definition... M

visual.json AdventureWorks Sales.Report\definition... M

model.tmdl AdventureWorks Sales.SemanticModel... M

Sales.tmdl AdventureWorks Sales.SemanticModel\... M

Sales.tmdl (Working Tree) M

AdventureWorks Sales.SemanticModel > definition > tables > Sales.tmdl

```
1  table Sales
2      lineageTag: 4f6804ef-cf70-4c42-96c1-d1155891935b
3
4      measure 'Sales Amount by Due Date' = ```
5              CALCULATE(SUM(Sales[Sales Amount]), USERELATIONSHIP(Sal
6              ```
7          lineageTag: c2fe3283-9d89-4bee-b219-09de50cc38c5
8
9      column SalesOrderLineKey
```

```
1  table Sales
2      lineageTag: 4f6804ef-cf70-4c42-96c1-d1155891935b
3
4      measure 'Sales Amount by Due Date' = ```
5              CALCULATE(SUM(Sales[Sales Amount]), USERELATIONSHIP(Sal
6              ```
7          lineageTag: c2fe3283-9d89-4bee-b219-09de50cc38c5
8
9+     measure Sales = SUM( Sales[Sales Amount] )
10+        lineageTag: 8a1a9cde-d31e-42dd-bde8-291e8d21b01a
11+
12+        annotation PBI_FormatHint = {"isGeneralNumber":true}
13+
14     column SalesOrderLineKey
```

DATA SATURDAYS

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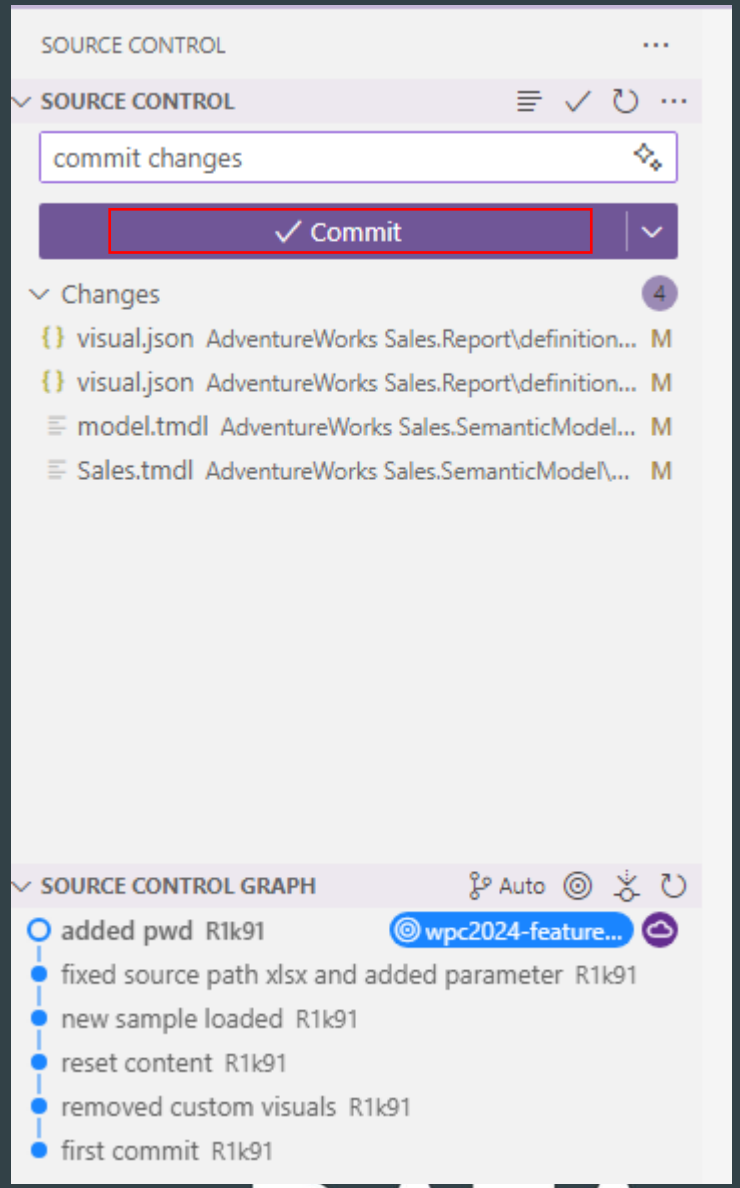

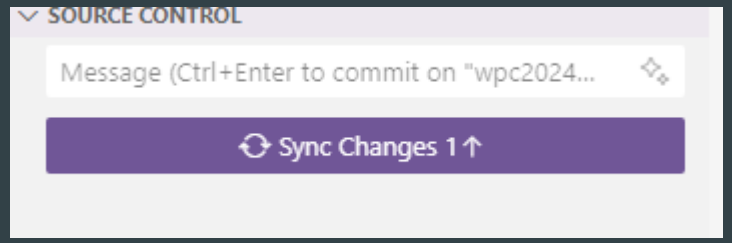

DATA SATURDAYS

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wpc2024-feature002

Create deployment pipeline | Create app | Manage access | Workspace settings

New item | New folder | Upload | Source control 2 | Filter by keyword | Filter

You have pending updates from Git. We recommend you update the incoming changes and then continue working.

Name	Git status	Type	Task	Owner	Refreshed	Next refresh	Endorsement	Sen
AdventureWorks Sales	Update Required	Report	—	wpc2024-feature002	11/17/2024, 12:10:07 PM	—	—	—
AdventureWorks Sales	Update Required	Semantic model	—	wpc2024-feature002	11/17/2024, 12:10:07 PM	N/A	—	—

Source control

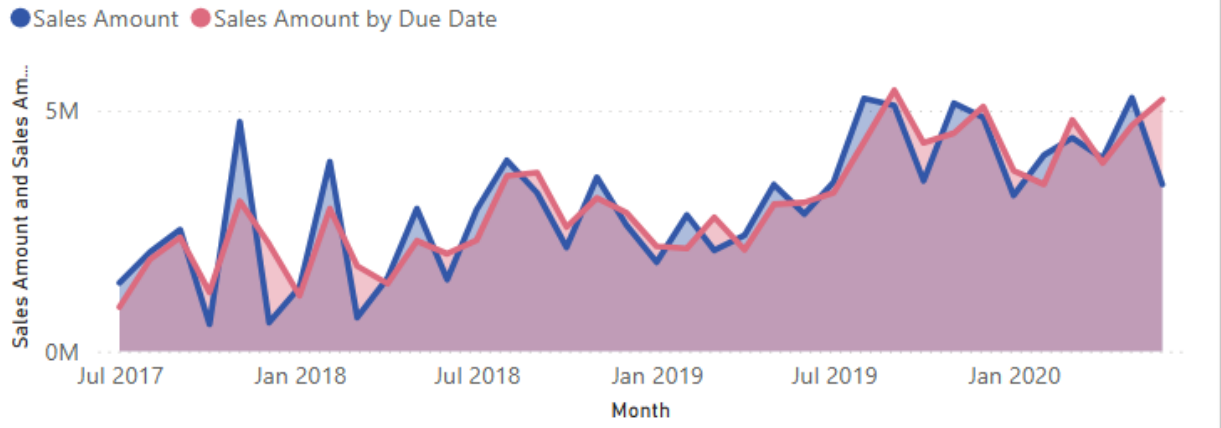
Current branch: wpc2024-feature002

Changes | Updates 2

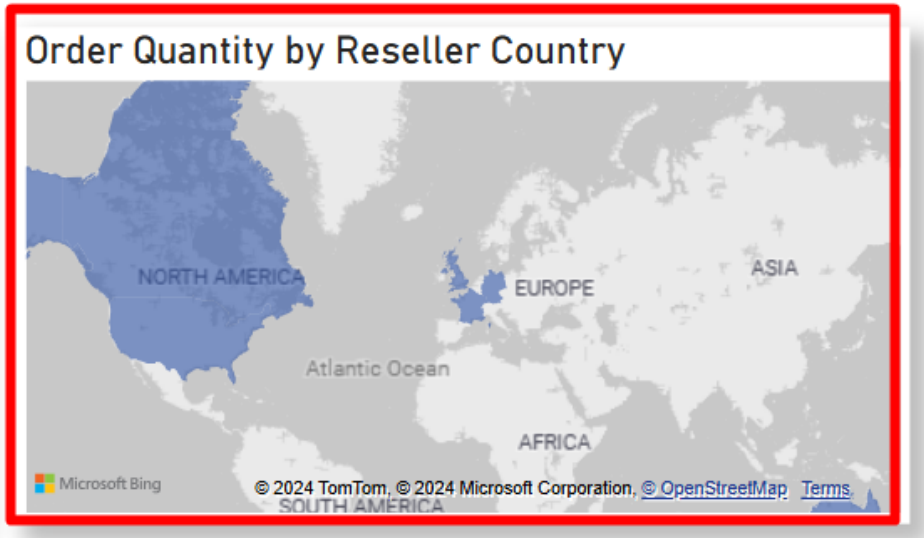
Item	Status
AdventureWorks Sales	
AdventureWorks Sales	

Summary - Sales Report

Sales Amount by Order Date / Due Date



Order Quantity by Reseller Country



DATA SATURDAYS

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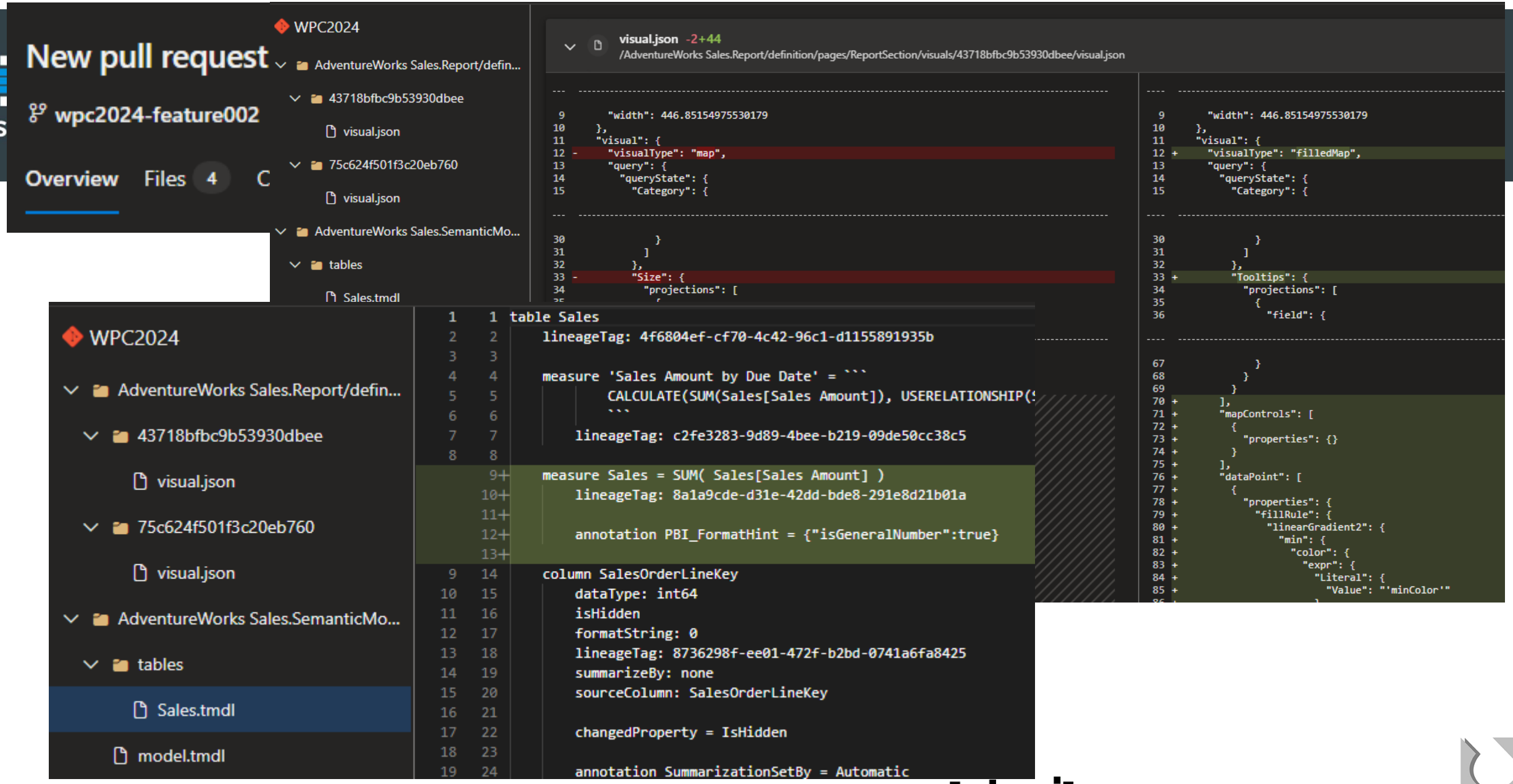

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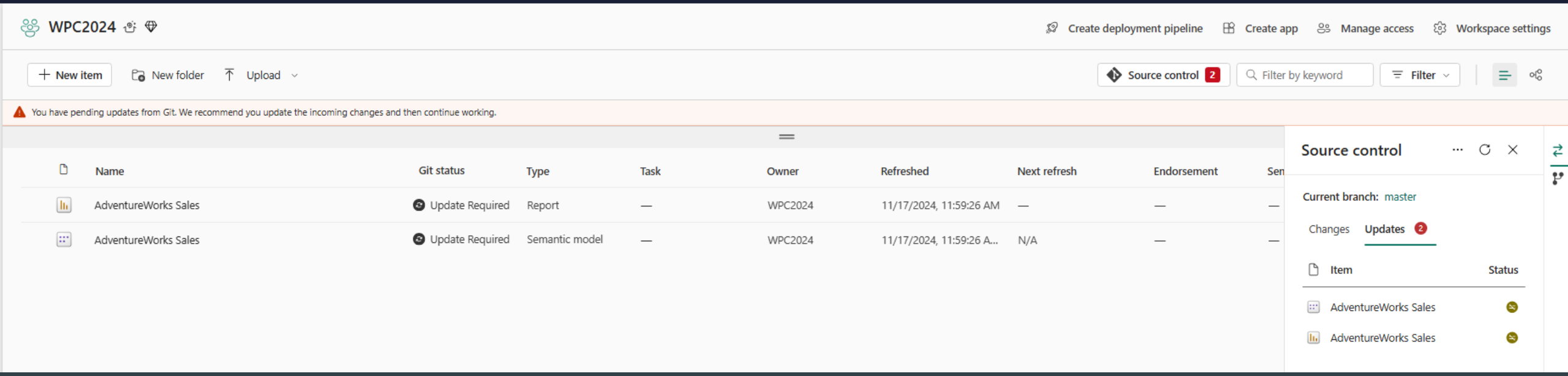
altitudo
beanTech IT moves your business
[stesi] Powered by Innovation
CONSORZIO UNIVERSITARIO DI PORDENONE MOLTIPLICATORE DI VALORE



DATA SATURDAYS

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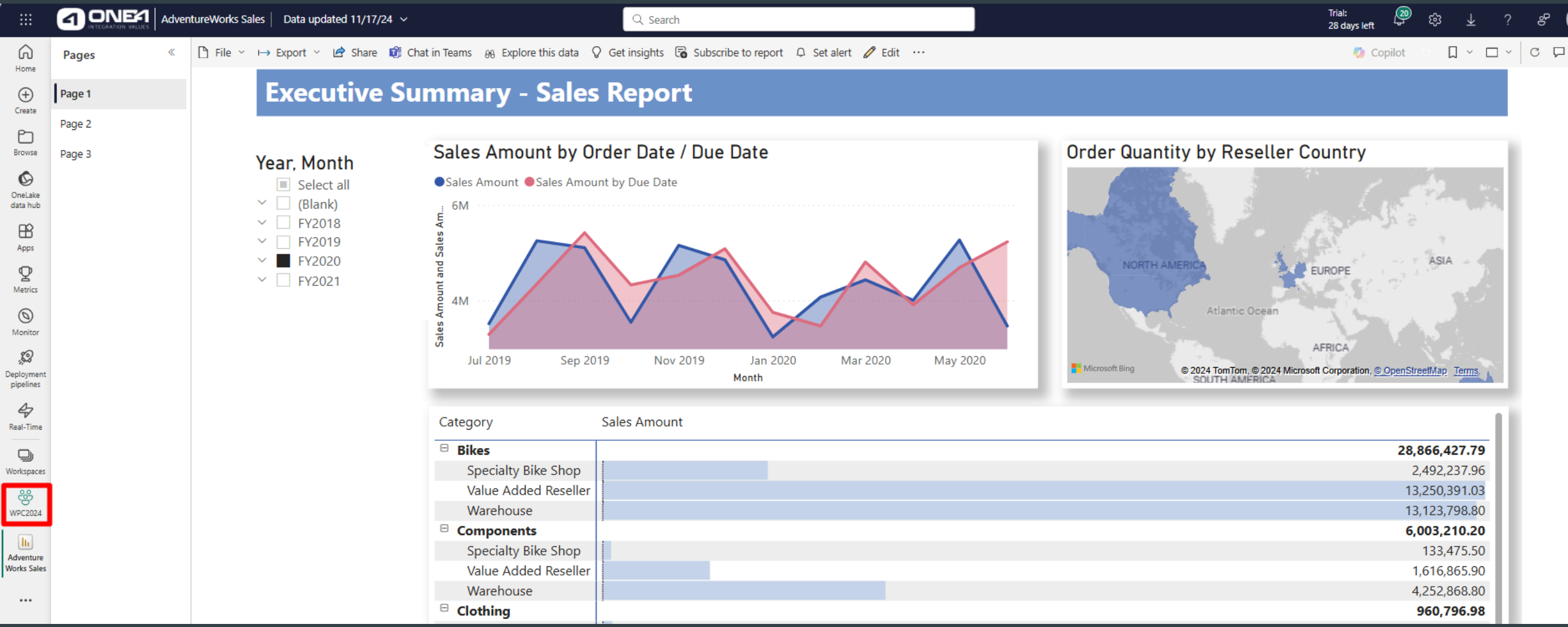

DATA SATURDAYS

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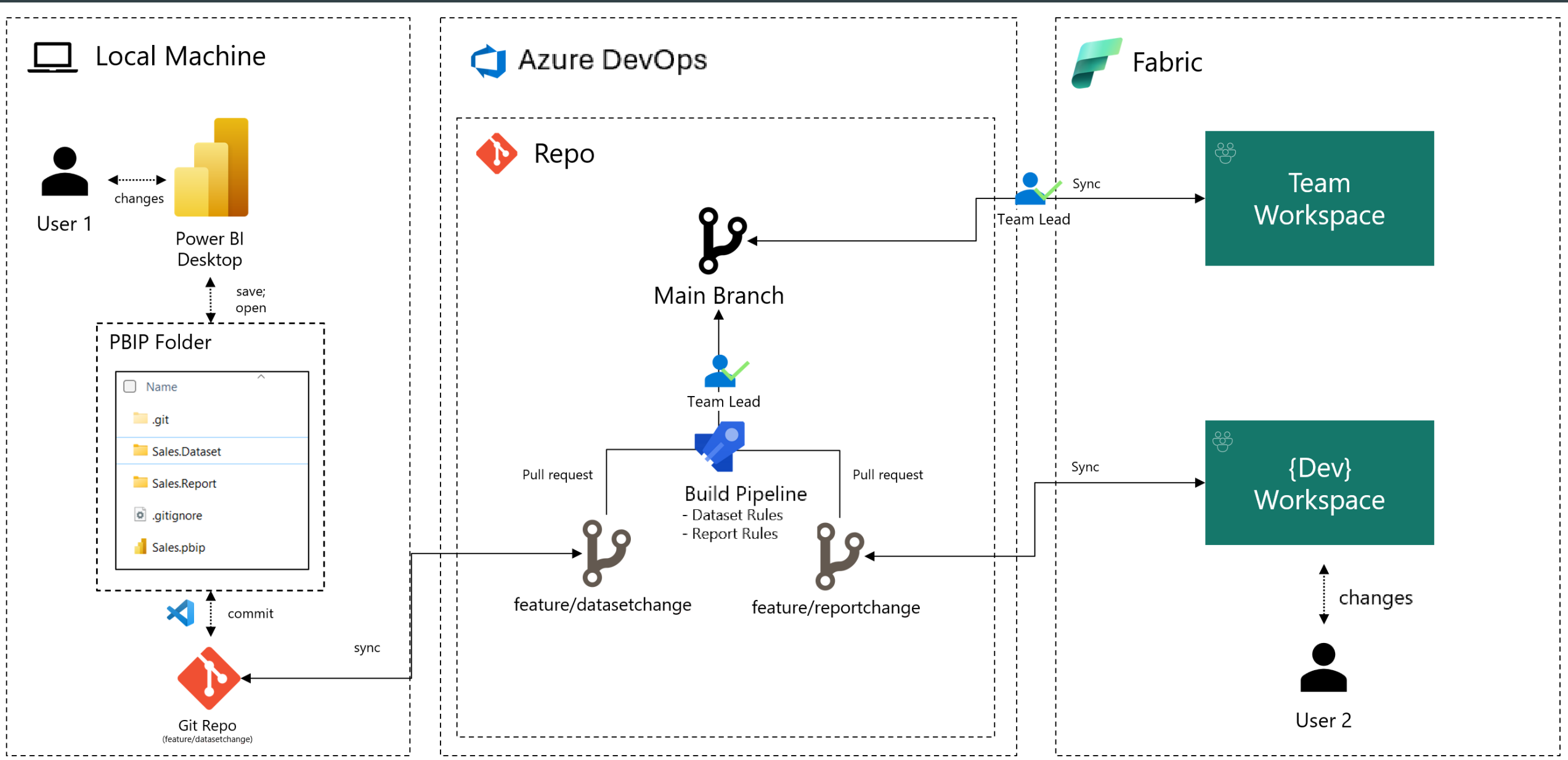
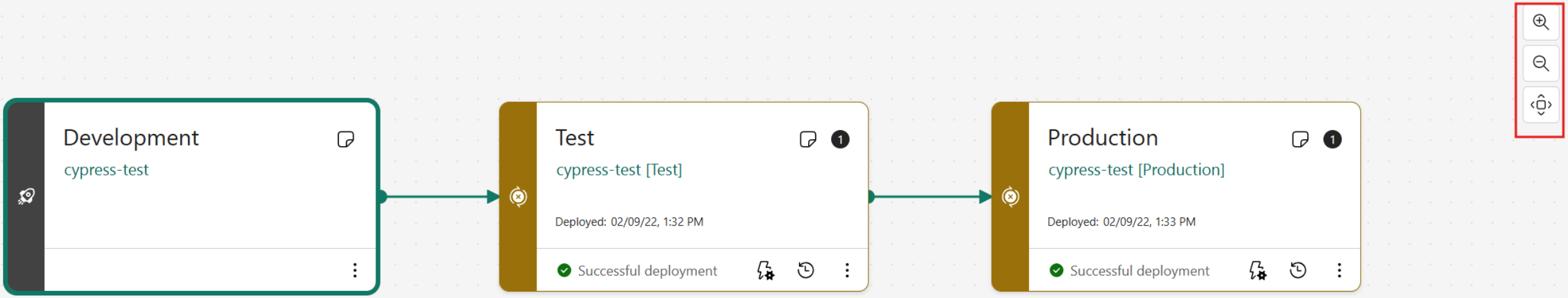

Local Machine
Azure DevOps
Fabric
Repo
User 1
changes
Power BI Desktop
save; open
PBIP Folder
Name
.git
Sales.Dataset
Sales.Report
.gitignore
Sales.pbip
commit
sync
Git Repo
(feature/datasetchange)
Main Branch
Team Lead
Pull request
Pull request
Build Pipeline
- Dataset Rules
- Report Rules
feature/datasetchange
feature/reportchange
Team Lead
Sync
Team Workspace
Sync
{Dev} Workspace
changes
User 2



DATA SATURDAYS

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Drive carefully

community

PBIPs are in preview

Limitations

- PBIP + TMDL
  - Publish from PBI Desktop switch TMDL back to TMSL
  - Fabric git uses TMSL by default
- PBIP + PBIR
  - You can't publish the report in Power BI App (*)
  - Do not support Deployment Pipelines (**)
  - Can’t be saved as a copy (**)
  - Rollback to PBIR-legacy is not supported
  - You can't use subscriptions (*)
  - You can't download PBIX
  - PBIP -> PBIX has all the limitations
  - Fabric git uses PRIR-legacy by default

(*) show stopper fixed

(**) show stopper not fixed

Links

[Power BI Desktop project semantic model folder - Power BI | Microsoft Learn]

[Create a Power BI report in enhanced report format - Power BI | Microsoft Learn]

Questions?

About me

Business Intelligence Architect @ Lucient ITALIA

+10 years in Microsoft “Data Realm”

Giving my little contribution to the community

DATA SATURDAYS

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github.com/R1k91
medium.com/riccardo-perico

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Grazie!