

# Power BI CICD, 1 Year Later

**Riccardo Perico**

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# Sponsors



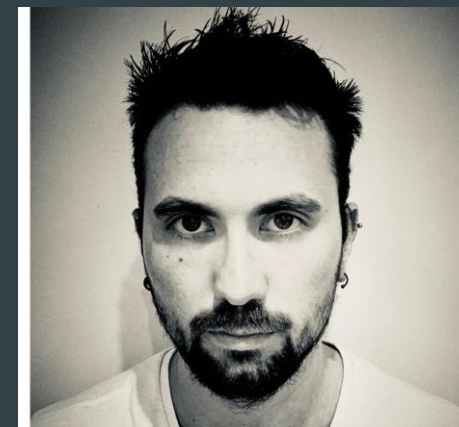
# About me

Business Intelligence Architect @



+10 years in Microsoft “Data Realm”

Giving my little contribution to the community



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 @R1k91

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# Who was here last year?



**What did we say?**

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## The basic option

The screenshot displays the 'My files' section of the Microsoft Power BI interface. On the left, a sidebar contains navigation options: New, Open, Save, Save as, Share, Get data, Import, Export, Publish, Options and settings, and Get started. Below these are 'About' and 'Sign out' links. The main area shows a list of files under the path 'My files > Sales data > Sales and Returns'. The files are 'Sales and returns Q3.pbix', 'Sales and returns Q2.pbix', and 'Sales and returns Q1.pbix'. A context menu is open for 'Sales and returns Q3', showing options to 'View' (1 View) and 'Viewer' (1 Viewer). The 'Viewer' option is selected, showing a preview of the file's content, which includes a table with columns 'Sales team' and 'Sales team west', and rows for 'Information Protection', 'Online Sales', and 'Sales team north'.

Name	Modified	Modified By	File size	Sharing	Activity
Sales and returns Q3.pbix			22 MB	Shared	You shared this file - Fri at 10:08 AM
Sales and returns Q2.pbix			22 MB	Private	
Sales and returns Q1.pbix			22 MB	Private	

# Developer options as of last year

- Microsoft: Power BI Desktop Developer Mode
- Microsoft+3<sup>rd</sup> 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

(\*)



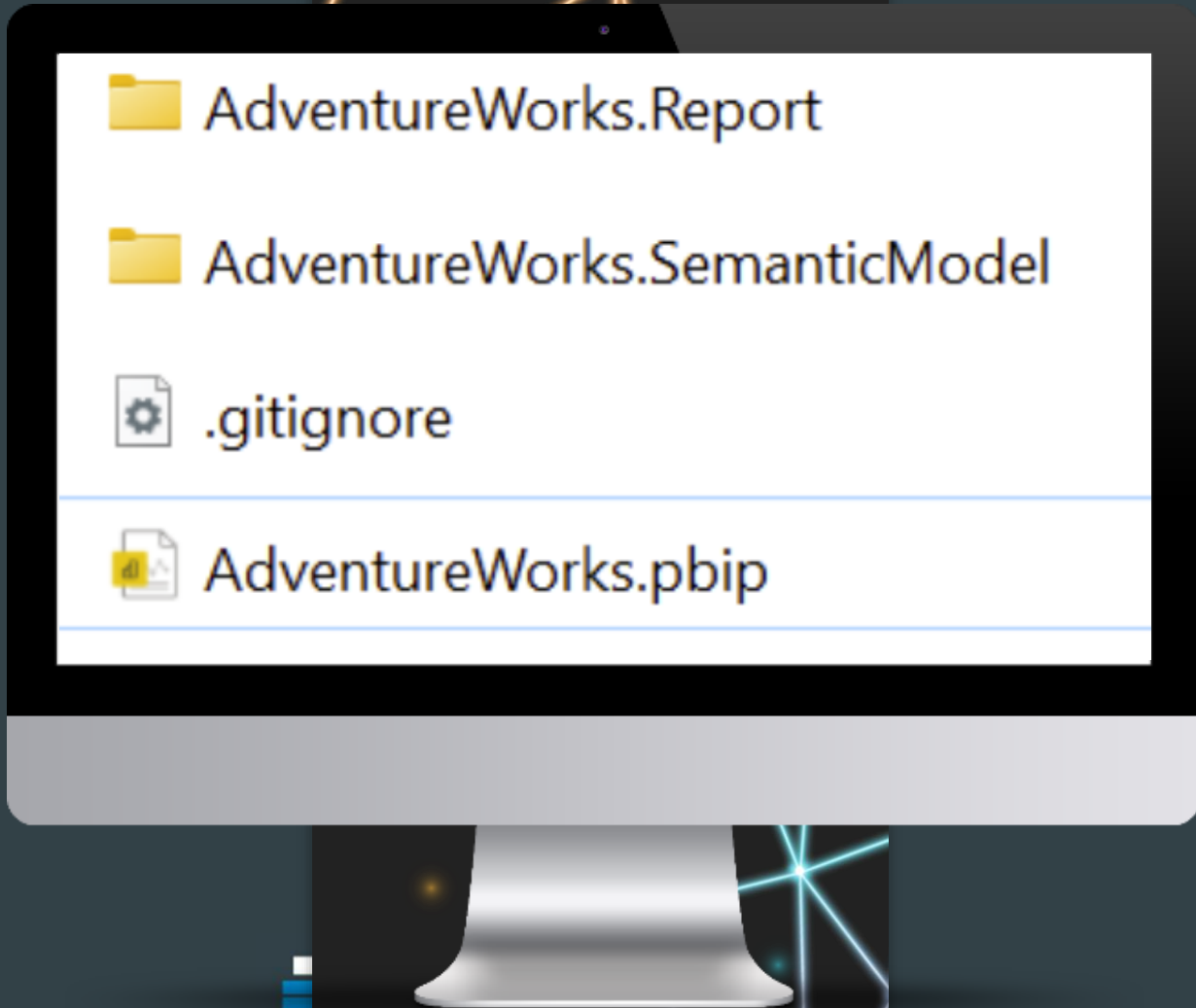


**What about now?**

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PBIP all the way



A computer monitor is shown with a file explorer window open. The window lists the following items:

- AdventureWorks.Report
- AdventureWorks.SemanticModel
- .gitignore
- AdventureWorks.pbip

The 'AdventureWorks.pbip' file is highlighted with a blue selection bar.

- 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

(\*)



S A T U R D A Y S

community

Demo

The logo for Data Saturdays features the word "DATA" in a large, white, sans-serif font. To the left of the "D" is a blue icon consisting of three horizontal bars of increasing length, resembling a stylized "D" or a data bar chart. Below "DATA" is the word "SATURDAYS" in a smaller, white, sans-serif font.

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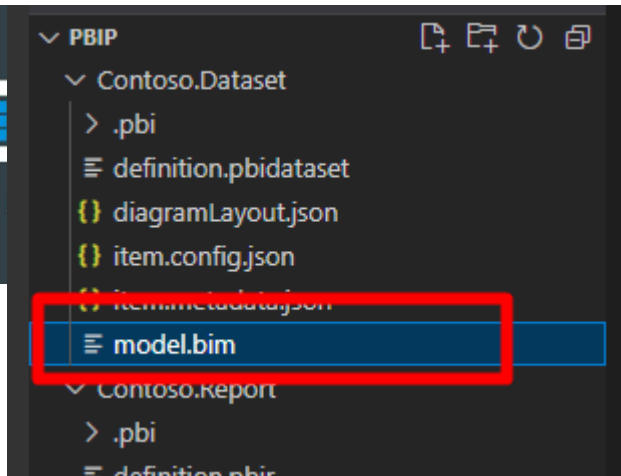
The logo for GhnoVa community features the word "GhnoVa" in a blue, stylized font. The "G" is large and yellow, with a blue outline. Below "GhnoVa" is the word "community" in a smaller, blue, sans-serif font.

GhnoVa  
community

**Semantic model in TMDL**

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```
},
"sourceQueryCulture": "en-US",
"tables": [
  {
    "name": "Channel",
    "annotations": [
      {
        "name": "ColumnsMetadata",
        "value": "{\\\"Columns\\\": [{\\\"Name\\\": \\\"Channel\\\"} ]}"
      },
      {
        "name": "PBI_ResultType",
        "value": "Table"
      }
    ]
  }
],
```

```
{
  "compatibilityLevel": 1550,
  "model": {
    "annotations": [
      {
        "name": "__PBI_TimeIntelligenceEnabled",
        "value": "1"
      },
      {
        "name": "PBIDesktopVersion",
        "value": "2.123.742.0 (23.11)"
      },
      {
        "name": "PBI_QueryOrder",
        "value": "[\\\"Channel\\\", \\\"Sales\\\", \\\"Stores\\\", \\\"Promotion\\\", \\\"Pro"
      },
      {
        "name": "PBI_ProTooling",
        "value": "[\\\"DevMode\\\"]"
      }
    ],
    "culture": "en-US",
    "cultures": [
      {
        "name": "en-US",
        "linguisticMetadata": {
          "content": {
            "DynamicImprovement": "HighConfidence",
            "Language": "en-US",
            "Version": "1.0.0"
          },
          "contentType": "json"
        }
      }
    ],
    "dataAccessOptions": {
      "legacyRedirects": true,
      "returnErrorValuesAsNull": true
    },
    "defaultPowerBIDataSourceVersion": "powerBI_V3",
    "relationships": [
      {
        "name": "4f81913b-9717-434b-944d-0fe871897062",
        "crossFilteringBehavior": "bothDirections",
        "fromColumn": "PromotionKey",
        "fromTable": "Sales",
        "toColumn": "PromotionKey",
        "toTable": "Promotion"
      },
      {
        "name": "d219834a-6b75-4cb0-944d-0fe871897062",
        "crossFilteringBehavior": "bothDirections",
        "fromColumn": "GeographyKey",
        "fromTable": "Stores",
        "toColumn": "GeographyKey",
        "toTable": "Geography"
      }
    ]
  }
},
"let",
{
  "name": "Source = Access.Database(File.Contents(\\\"C:\\\\Users\\owend\\Documents\\ContosoSalesV31_64bit.accdb\\\")),",
  "_FactSales = Source[[Schema-\\\", Item-\\\"FactSales\\\"]][Data],",
  "#\\\"Removed Columns\\\" = Table.RemoveColumns(_FactSales, {\\\"CurrencyKey\\\", \\\"ETLLoadID\\\", \\\"LoadDate\\\", \\\"UpdatedDate\\\"})",
  "in",
  "#\\\"Removed Columns\\\"",
},
"type": "m"
}
```

```
"columns": [
  {
    "name": "Channel",
    "annotations": [
      {
        "name": "SummarizationSetBy",
        "value": "Automatic"
      }
    ],
    "dataType": "int64",
    "formatString": "0",
    "isHidden": true,
    "lineageTag": "8cb0c47f-bda0-47c5-8d4f-35b1a1a1acfc",
    "sourceColumn": "Channel",
    "summarizeBy": "none"
  },
  {
    "name": "ChannelName",
    "annotations": [
      {
        "name": "SummarizationSetBy",
        "value": "Automatic"
      }
    ],
    "dataType": "string",
    "lineageTag": "bfa7d98d-f9c0-4aa6-80c0-937003093555",
    "sourceColumn": "ChannelName",
    "summarizeBy": "none"
  }
]
```

```
"measures": [
  {
    "name": "Sales",
    "annotations": [
      {
        "name": "PBI_FormatHint",
        "value": "{\\\"currencyCulture\\\": \\\"en-US\\\"}"
      }
    ],
    "expression": "sum(Sales[SalesAmount])",
    "formatString": "\\\"#,0.#####\\\";\\\"#,0.#####\\\";\\\"#,0.#####\\\";\\\"#,0.#####\\\"",
    "lineageTag": "d5bcc484-e414-4faa-8f24-fa7c3b11b43d"
  }
]
```

```
"let",
{
  "Source = Access.Database(File.Contents(\\\"C:\\\\Users\\owend\\Documents\\ContosoSalesV31_64bit.accdb\\\")),",
  "_FactSales = Source[[Schema-\\\", Item-\\\"FactSales\\\"]][Data],",
  "#\\\"Removed Columns\\\" = Table.RemoveColumns(_FactSales, {\\\"CurrencyKey\\\", \\\"ETLLoadID\\\", \\\"LoadDate\\\", \\\"UpdatedDate\\\"})",
  "in",
  "#\\\"Removed Columns\\\"",
},
"type": "m"
}
```

- > Sales & Returns Sample v201912.Report
- ✓ Sales & Returns Sample v201912.SemanticModel
  - > .pbi
  - ✓ definition
    - > cultures
    - ✓ tables
      - ≡ % Return Rate.tmdl
      - ≡ Age.tmdl
      - ≡ Analysis DAX.tmdl
      - ≡ Associated Product.tmdl
      - ≡ Association.tmdl
      - ≡ Calendar.tmdl
      - ≡ Customer.tmdl
      - ≡ DataTableTemplate\_81b13e4d-a259-4d50-a0e1-...
      - ≡ Design DAX.tmdl
      - ≡ Details.tmdl
      - ≡ Issues and Promotions.tmdl
      - ≡ LocalDataTable\_d9fbe243-4814-4038-8eec-593e...
      - ≡ Product.tmdl
      - ≡ Sales.tmdl
      - ≡ STable.tmdl
      - ≡ Store.tmdl
      - ≡ Tooltip Info.tmdl
      - ≡ Tooltip Info2.tmdl
      - ≡ database.tmdl
      - ≡ model.tmdl
      - ≡ relationships.tmdl
    - ≡ .platform
    - ≡ definition.pbism
    - { } diagramLayout.json
    - ◆ .gitignore
    - ≡ Sales & Returns Sample v201912.pbin

```
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 DataTableTemplate_81b13e4d-a259-4d50-a0e1-7a39807f5f63
ref table Sales
ref table Store
ref table Calendar
ref table LocalDataTable_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"}
```

```

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.Type}},),
    #"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", "Category.1", "Segment.1", "Price.1", "Price Range.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"

```

```
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"}
```

```
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
```

Sales • Last saved: Today at 1:43 PM

Search

FileHomeHelpExternal tools

PasteCutCopyFindReplaceCommand palette

ClipboardEditing

Share

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 from the TMDL pane. 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
```

Problems 0Output

Script 1

Data

TablesModel

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





Sales • Last saved: Today at 1:43 PM

Search

FileHomeHelpExternal tools

PasteCutCopy

FindReplaceCommand palette

ClipboardEditing

↑ Apply

Share feedback

1createOrReplace

2

3/// Sales table for year over year analysis

4table Sales

5lineageTag: 97143e5b-7736-4fcb-8042-26b92b1f5684

6

7measure 'Sales Qty' = sum('Sales'[Quantity])

8formatString: #,##0

9lineageTag: c2ff8d96-2f03-4005-84df-91458625b73b

10

11measure 'Sales Amount' = SUMX('Sales', 'Sales'[Quantity] \* 'Sales'[Net Price])

12formatString: \$ #,##0

13lineageTag: a8e95485-02a2-4525-b02a-b2418fbdbe4c

14

15measure 'Sales Amount (Δ LY)' = [Sales Amount] - [Sales Amount (LY)]

16formatString: \$ #,##0

17lineageTag: d2724187-f1de-4a90-84bc-fc96aab3194b

18

19/// Sales Amount Last Year considering a full month

20measure 'Sales Amount (LY)' = CALCULATE([Sales Amount], SAMEPERIODLASTYEAR('Calendar'[Date]))

Problems0

Output

Script 1

+

Share

Data

TablesModel

View and organize all of the items in your semantic model. [Learn how](#)

Search

> Measures (14)

> Perspectives (1)

> Relationships (4)

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> Tables (7)

> Calendar

> Costs

> Customer

> Employee

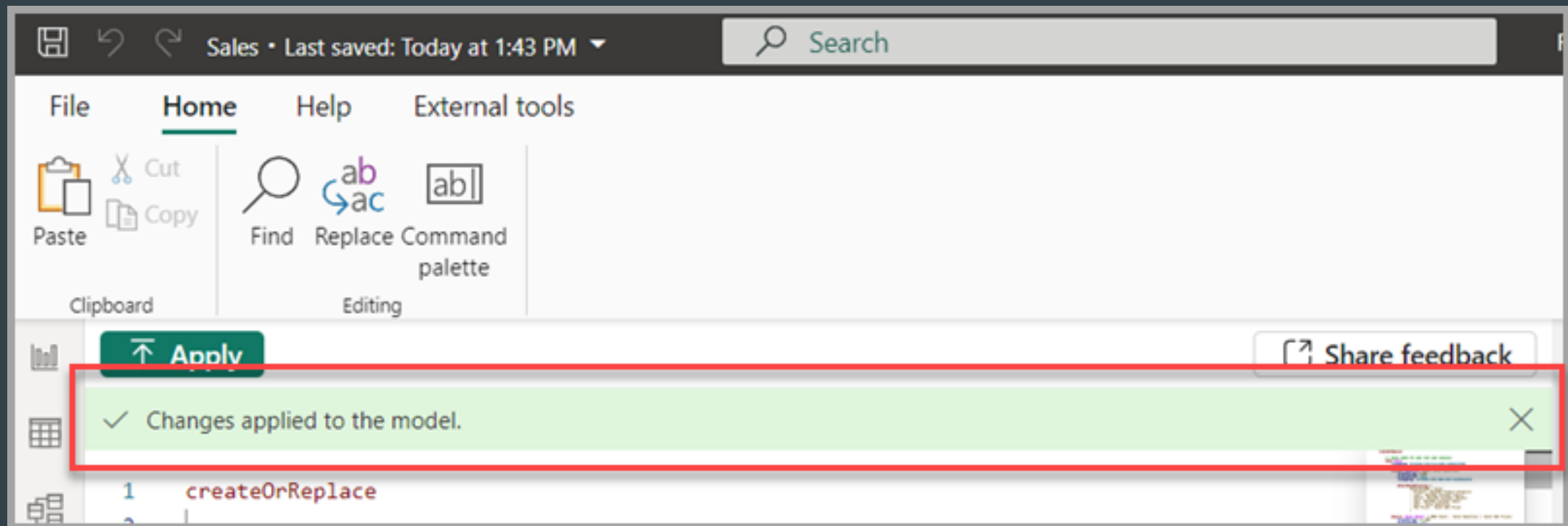
> Product

> Sales

> Store

SATURDAYS

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**Layout in PBIR**

**DATA**  
SATURDAYS





```

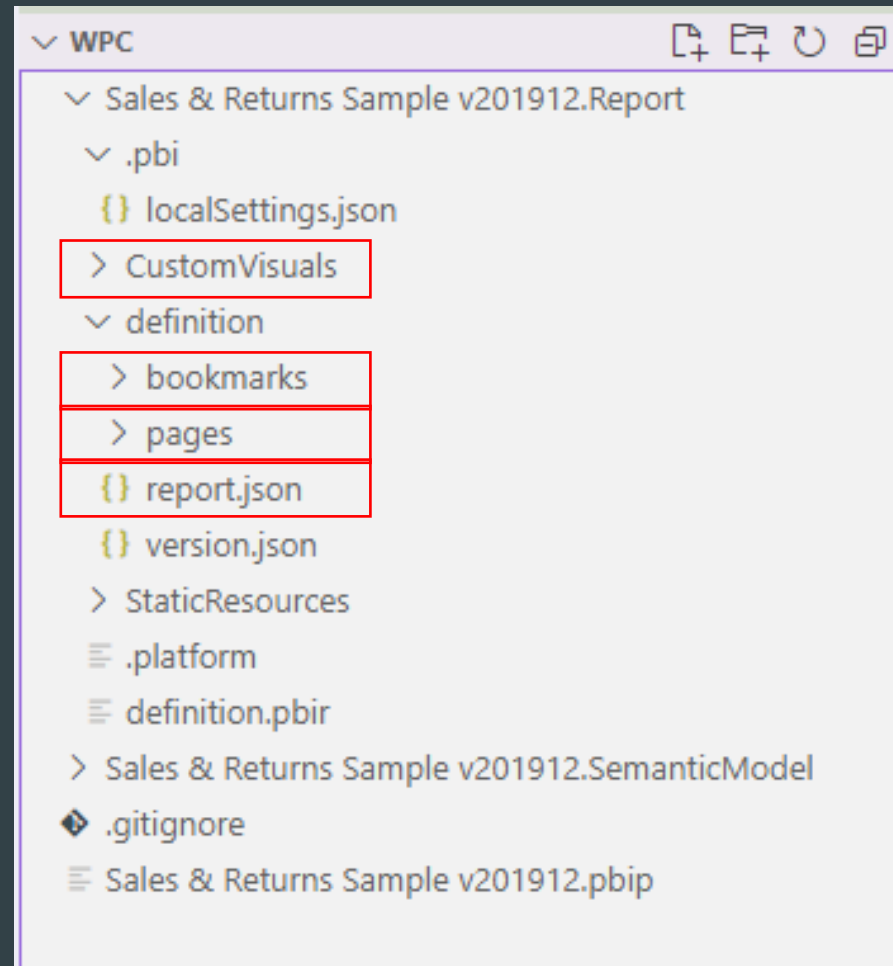
{
  "config": "{\\\"version\\\":\\\"5.37\\\",\\\"themeCollection\\\":{\\\"customTheme\\\":{\\\"name\\\":\\\"ThemeNew1\\\",\\\"version\\\":\\\"3\\\"}}}",
  "layoutOptimization": 0,
  "sections": [
    {
      "config": "{}",
      "displayName": "Page 1",
      "displayOption": 0,
      "filters": "[]",
      "height": 720.00,
      "name": "ReportSection",
      "visualContainers": [
        {
          "config": "{\\\"name\\\":\\\"334ecb7737726c7714d1\\\",\\\"layouts\\\":{\\\"id\\\":0,\\\"position\\\":{\\\"x\\\":279.4327398,\\\"y\\\":125.26,\\\"z\\\":0.00}}}",
          "filters": "[]",
          "height": 300.00,
          "width": 300.00,
          "x": 279.43,
          "y": 125.26,
          "z": 0.00
        }
      ],
      "width": 960.00
    }
  ],
  "theme": "ThemeNew1"
}

```

```

1 {
2   "config": "{\\\"version\\\":\\\"5.37\\\",\\\"themeCollection\\\":{\\\"customTheme\\\":{\\\"name\\\":\\\"ThemeNew1\\\",\\\"version\\\":\\\"3\\\"}}}",
3   "layoutOptimization": 0,
4   "sections": [
5     {
6       "config": "{}",
7       "displayName": "Page 1",
8       "displayOption": 0,
9       "filters": "[]",
10      "height": 720.00,
11      "name": "ReportSection",
12      "visualContainers": [
13        {
14+      "config": "{\\\"name\\\":\\\"334ecb7737726c7714d1\\\",\\\"layouts\\\":{\\\"id\\\":0,\\\"position\\\":{\\\"x\\\":279.39464493,\\\"y\\\":125.28,\\\"z\\\":0.00}}}",
15+      "filters": "[]",
16+      "height": 300.24,
17+      "width": 421.33,
18+      "x": 279.39,
19+      "y": 125.28,
20+      "z": 0.00
21+    }
22+  ],
23+  "width": 960.00
24+  }
25+ ],
26+ "theme": "ThemeNew1"
27 }

```

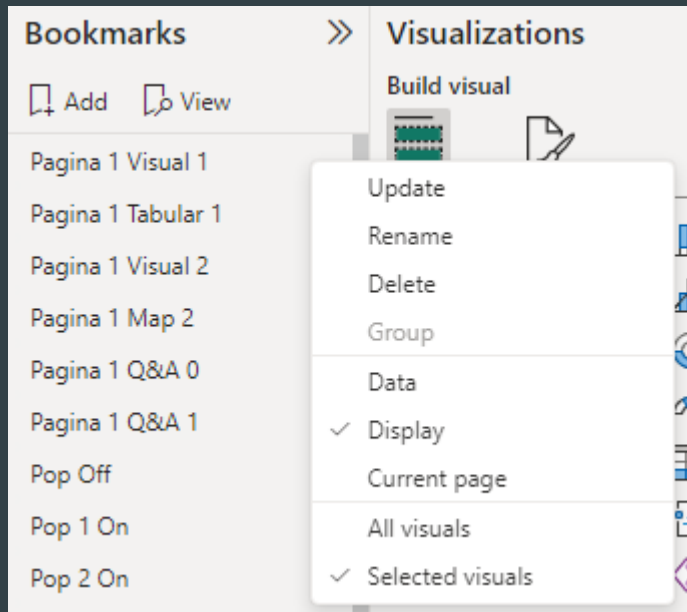


Filters on all pages

**Date - Month**  
is June

**DATA**  
SATURDAYS

```
},
"filter": {
  "Version": 2,
  "From": [
    {
      "Name": "1",
      "Entity": "LocalDateTable_d9fbe243-4814-4038-8eec-593e864a563b",
      "Type": 0
    }
  ],
  "Where": [
    {
      "Condition": {
        "In": {
          "Expressions": [
            {
              "Column": {
                "Expression": {
                  "SourceRef": {
                    "Source": "1"
                  }
                },
                "Property": "Month"
              }
            }
          ],
          "Values": [
            [
              {
                "Literal": {
                  "Value": "'June'"
                }
              }
            ]
          ]
        }
      }
    }
  ]
}
```



```
{
  "$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": [
        {
          "name": "Filter",
          "type": "Categorical",
          "filter": {
            "Version": 2,
            "From": [
              {
                "Name": "1",
                "Entity": "LocalDateTable_d9fbe243-4814-4038-8eec-593e864a563b",
                "Type": 0
              }
            ]
          },
          "Where": [
            {
              "Condition": {
                "In": {
                  "Expressions": [
                    {
                      "Column": {
                        "Expression": {
                          "SourceRef": {
                            "Source": "1"
                          }
                        }
                      }
                    }
                  ]
                }
              }
            }
          ]
        }
      ]
    }
  }
}
```

```
{
  "$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"
}
```

```

  pages
  ReportSection1dea67c2520bce38f54f
    visuals
      3e0614aa04dc4560ee62
      5da3c3f81d93a9c81069
      6f5c60443649d316b648
      8acdd971b07684691201
      8d760e8e3896c49aca93
      15c415aa8b6550fb4fb5
      23db26b3cd172f49276c
      51ce430d668caa914894
      94e00a62024369b7a40e
      839e234bec0bf45c1145
      920f4a4319a513fb9498
      1983b56feab63cd10919
      a03ed496f51eef7b5c23
      a125e8594debec7bbd9d
      c5c752cddfd93db49c9e
      fcfceba358998a8d92bb
    {} page.json

```

```

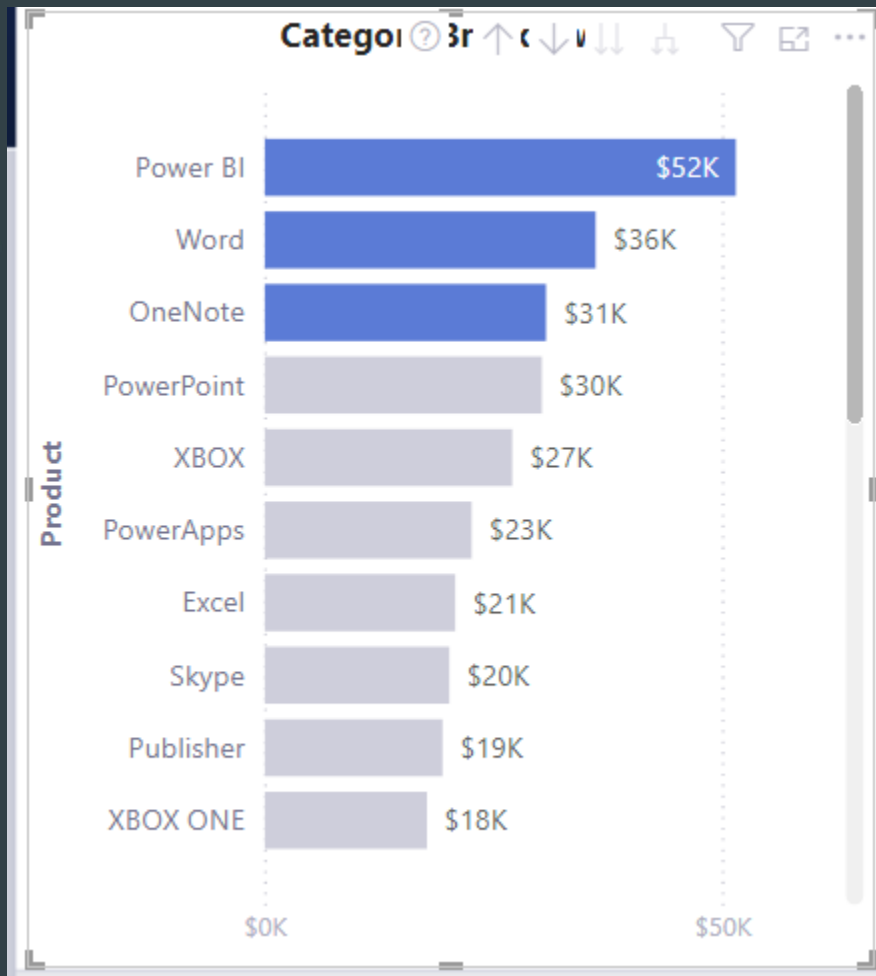
  visuals
    > aae8953dc19c429add3e
    > ace24b3a7e0376084078
    > aefe1f0a481100e0609d
    > bdbdc676ded10ad92c90
    > c22adfcca77c7baf5f51
    > c61b21c44b14a094006b
    > cc73fe5991209030a4e0
    > d55aa7aa40745de10d55
    > dec3aad399d5d19a1d11
    > e9ba73df2e50668a6002
    > ec68108562a62504cb6b
    > f7d6a1d47a420554ca7c
    > ff684e8bd3052b108d01

```

```

  3a28c5fee26bd29ff352
    {} mobile.json
    {} visual.json 1

```



**DATA**  
SATURDAYS

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

**hn0va**  
community

```
1 {
2   "$schema": "https://developer.microsoft.com/json-schemas/fabric/item/report/definition/report/1.2.0/schema.json",
3   "themeCollection": {
```

developer.microsoft.com/json-sch X +

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

```
1 {
2   "$id": "https://developer.microsoft.com/json-schemas/fabric/item/report/definition/report/1.2.0/schema.json",
3   "$schema": "http://json-schema.org/draft-07/schema#",
4   "title": "Report",
5   "description": "Defines a report and its pages, visuals, settings, and additional information.",
6   "type": "object",
7   "properties": {
8     "$schema": {
9       "description": "Defines the schema to use for an item.",
10      "type": "string",
11      "const": "https://developer.microsoft.com/json-schemas/fabric/item/report/definition/report/1.2.0/schema.json"
12    },
13    "themeCollection": {
14      "$ref": "#/definitions/ThemeCollection",
15      "description": "Define a theme (built-in and/or a custom theme) to be used for this report."
16    },
17    "layoutOptimization": {
18      "$ref": "#/definitions/LayoutOptimization",
19      "description": "Is the report optimized for mobile consumption."
20    },
21    "filterConfig": {
22      "description": "Filters that apply to the entire report (all pages and all visuals).",
23      "$ref": "#/definitions/FilterConfig"
24    },
25    "objects": {
26      "description": "Specifies the formatting to be set for different \"objects\" of a report.",
27      "$ref": "#/definitions/ReportFormattingObjects"
28    },
29    "reportSource": {
30      "description": "Defines how the report was created.",
31      "type": "string",
32      "anyOf": [
33        {
34          "const": "Default",
35          "description": "A blank report generated by Power BI apps."
36        },
37        {
38          "const": "SharePoint",
39          "description": "A quick create report created from a SharePointList."
40        },
41        {
42          "const": "Teams",
43          "description": "A quick create report created from Teams."
44        }
45      ]
46    }
47  }
48 }
```



# Versioning

DATA  
SATURDAYS

GhnoVa  
community



WPC2024

Private

Unwatch 1

Fork 0

Star 0

main

1 Branch 0 Tags

Go to file

Add file

<> Code

About



No description, website, or topics provided.

Readme

Activity

0 stars

1 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)



R1k91 Initial commit

2e7fce1 · 8 minutes ago

1 Commit

README.md

Initial commit

8 minutes ago

README



# WPC2024

 **WPC2024** Private

Unwatch 1

main 1 Branch 0 Tags

Add file

<> Code

 **R1k91** first commit

7a84605 · 2 minutes ago

 **2 Commits**

 Sales & Returns Sample v201912.Report	first commit	2 minutes ago
 Sales & Returns Sample v201912.SemanticMo...	first commit	2 minutes ago
 .gitignore	first commit	2 minutes ago
 README.md	Initial commit	13 minutes ago
 Sales & Returns Sample v201912.pbip	first commit	2 minutes ago

## 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




	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

fixed source path.xlsx and added parameter

2841f9d7  R1k91 committed 37m ago  master

Files Details

Parent 1 → This commit  Filter 8 changed files  Side-by-side 

WPC2024

AdventureWorks Sales.SemanticMo...

tables

Customer.tmdl

Date.tmdl

Product.tmdl

Reseller.tmdl

Sales Order.tmdl

Sales Territory.tmdl

Sales.tmdl

model.tmdl

Customer.tmdl -1+1

/AdventureWorks Sales.SemanticModel/definition/tables/Customer.tmdl

...

mode: import

source =

let

Source = Excel.Workbook(File.Contents("C:\Users\jterh\OneDrive - Mic...

Customer\_Table = Source[Item="Customer",Kind="Table"]][Data],

#"Changed Type" = Table.TransformColumnTypes(Customer\_Table,{"Cust...

in

...

...

mode: import

source =

let

Source = Excel.Workbook(File.Contents(pSourceFile), null, true),

Customer\_Table = Source[Item="Customer",Kind="Table"]][Data],

#"Changed Type" = Table.TransformColumnTypes(Customer\_Table,{"Cust...

in

...

Date.tmdl -1+1

/AdventureWorks Sales.SemanticModel/definition/tables/Date.tmdl

...

mode: import

source =

let

Source = Excel.Workbook(File.Contents("C:\Users\jterh\OneDrive - M...

Date\_Table = Source[Item="Date",Kind="Table"]][Data],

#"Changed Type" = Table.TransformColumnTypes(Date\_Table,{"DateKey"

in

...

...

mode: import

source =

let

Source = Excel.Workbook(File.Contents(pSourceFile), null, true),

Date\_Table = Source[Item="Date",Kind="Table"]][Data],



#"Changed Type" = Table.TransformColumnTypes(Date\_Table,{"DateKey"

in

...

 WPC2024  

 wpc2024-feature-001 

 wpc2024-feature002 

SOURCE CONTROL

SOURCE CONTROL

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

Changes

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

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

model.tmdl AdventureWorks Sales.SemanticModel...

Sales.tmdl AdventureWorks Sales.SemanticModel\...

Sales.tmdl (Working Tree) M X

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]), USERRELATIONSHIP(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]), USERRELATIONSHIP(Sal

6 ```

7 lineageTag: c2fe3283-9d89-4bee-b219-09de50cc38c5

8

9+ measure Sales = SUM( Sales[Sales Amount] )

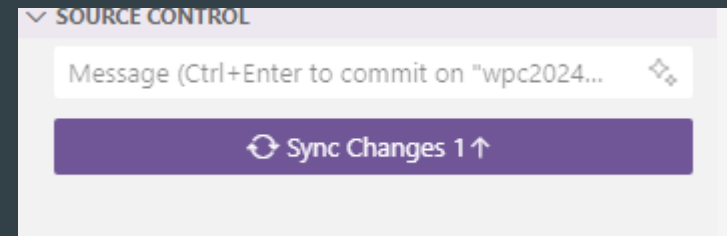
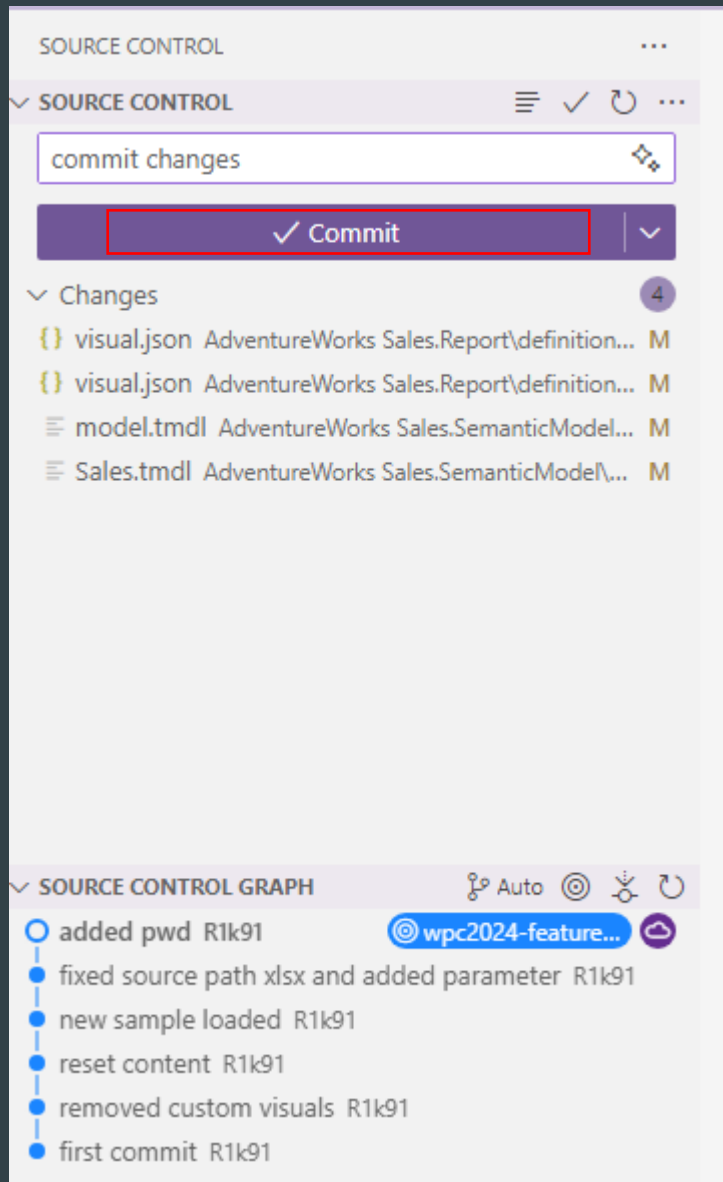
10+ lineageTag: 8a1a9cde-d31e-42dd-bde8-291e8d21b01a

11+ annotation PBI\_FormatHint = {"isGeneralNumber":true}

12+

13+

14 column SalesOrderLineKey





+ 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

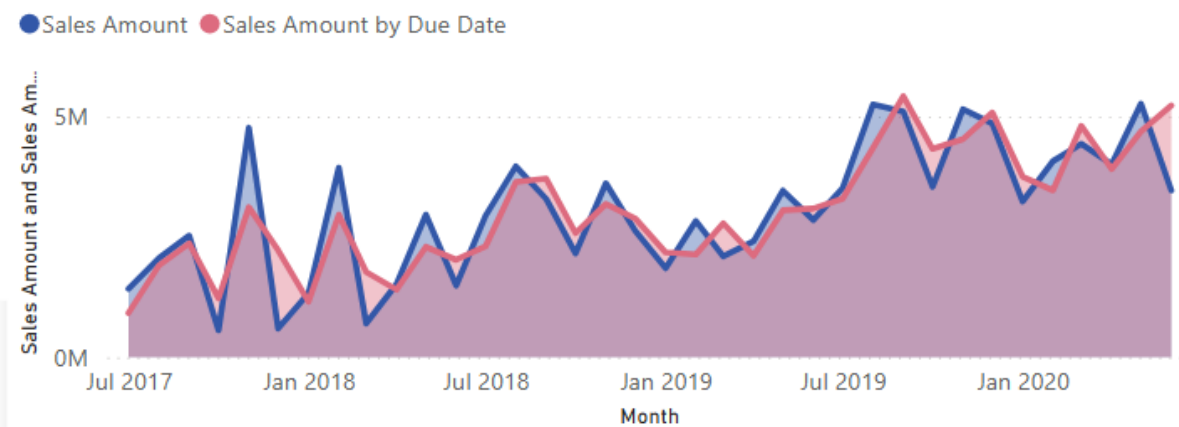
Current branch: wpc2024-feature002

Changes Updates 2

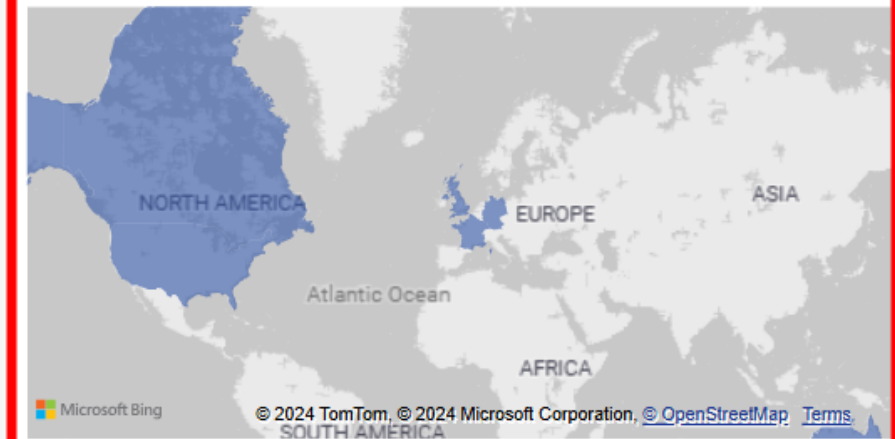
Item	Status
AdventureWorks Sales	
AdventureWorks Sales	

## Summary - Sales Report

### Sales Amount by Order Date / Due Date



### Order Quantity by Reseller Country



WPC2024

New pull request

wpc2024-feature002

Overview Files 4 C

AdventureWorks Sales.Report/defin...

43718bfb9b53930dbee

visual.json

75c624f501f3c20eb760

visual.json

AdventureWorks Sales.SemanticMo...

tables

Sales.tmdl

visual.json -2+44

/AdventureWorks Sales.Report/definition/pages/ReportSection/visuals/43718bfb9b53930dbee/visual.json

```

9      "width": 446.85154975530179
10     },
11     "visual": {
12 -    "visualType": "map",
13      "query": {
14        "queryState": {
15          "Category": {
16
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30      }
31    }
32  },
33 -  "Size": {
34    "projections": [
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67    }
68  }
69  },
70 +  ],
71 +  "mapControls": [
72 +    {
73 +      "properties": {}
74 +    }
75 +  ],
76 +  "dataPoint": [
77 +    {
78 +      "properties": {
79 +        "fillRule": {
80 +          "linearGradient2": {
81 +            "min": {
82 +              "color": {
83 +                "expr": {
84 +                  "Literal": {
85 +                    "Value": "'minColor'"
86 +                  }
87 +                }
88 +              }
89 +            }
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```

WPC2024

AdventureWorks Sales.Report/defin...

43718bfb9b53930dbee

visual.json

75c624f501f3c20eb760

visual.json

AdventureWorks Sales.SemanticMo...

tables

Sales.tmdl

model.tmdl

1 1 table Sales

2 2 lineageTag: 4f6804ef-cf70-4c42-96c1-d1155891935b

3 3

4 4 measure 'Sales Amount by Due Date' = ``

5 5 CALCULATE(SUM(Sales[Sales Amount]), USERRELATIONSHIP(!

6 6 ``

7 7 lineageTag: c2fe3283-9d89-4bee-b219-09de50cc38c5

8 8

9+ 9+ measure Sales = SUM( Sales[Sales Amount] )

10+ 10+ lineageTag: 8a1a9cde-d31e-42dd-bde8-291e8d21b01a

11+ 11+

12+ 12+ annotation PBI\_FormatHint = {"isGeneralNumber":true}

13+ 13+

9 14 column SalesOrderLineKey

10 15 dataType: int64

11 16 isHidden

12 17 formatString: 0

13 18 lineageTag: 8736298f-ee01-472f-b2bd-0741a6fa8425

14 19 summarizeBy: none

15 20 sourceColumn: SalesOrderLineKey

16 21

17 22 changedProperty = IsHidden

18 23

19 24 annotation SummarizationSetBy = Automatic



WPC2024

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	11/17/2024, 11:59:26 AM	—	—	—
	AdventureWorks Sales	Update Required	Semantic model	—	WPC2024	11/17/2024, 11:59:26 A...	N/A	—	—

ONE1

AdventureWorks Sales

Data updated 11/17/24

Search

Trial: 28 days left

20

Pages

Page 1

Page 2

Page 3

File

Export

Share

Chat in Teams

Explore this data

Get insights

Subscribe to report

Set alert

Edit

Copilot

Year, Month

Select all

(Blank)

FY2018

FY2019

FY2020

FY2021

Executive Summary - Sales Report

Sales Amount by Order Date / Due Date

Sales Amount

Sales Amount by Due Date

Order Quantity by Reseller Country

Category

Sales Amount

Bikes

28,866,427.79

Specialty Bike Shop

2,492,237.96

Value Added Reseller

13,250,391.03

Warehouse

13,123,798.80

Components

6,003,210.20

Specialty Bike Shop

133,475.50

Value Added Reseller

1,616,865.90

Warehouse

4,252,868.80

Clothing

960,796.98

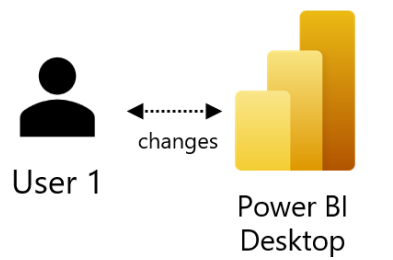
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SATURDAYS

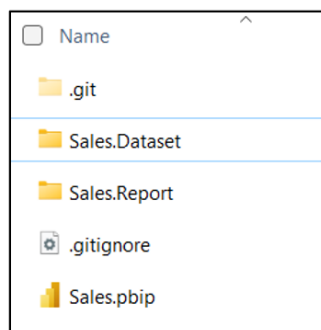
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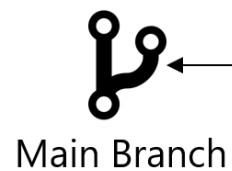
## Local Machine



### PBIP Folder



## Azure DevOps



Pull request

Pull request

feature/datasetchange

feature/reportchange

sync

## Fabric

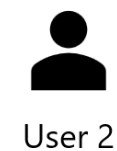


Team  
Workspace

Sync

{Dev}  
Workspace

changes



Development  
cypress-test

```
graph LR; Development[Development] --> Test[Test]; Test --> Production[Production];
```

The diagram illustrates a three-stage deployment pipeline. The first stage, 'Development', is highlighted with a green border and contains the text 'cypress-test'. It is connected by a green arrow to the second stage, 'Test', which has a brown border and contains 'cypress-test [Test]'. The 'Test' stage shows a deployment timestamp of '02/09/22, 1:32 PM' and a 'Successful deployment' status. A green arrow connects the 'Test' stage to the third stage, 'Production', which also has a brown border and contains 'cypress-test [Production]'. The 'Production' stage shows a deployment timestamp of '02/09/22, 1:33 PM' and a 'Successful deployment' status. Each stage includes a copy icon, a status icon (a circle with an 'x'), and a menu icon (three dots).

Test  
cypress-test [Test]

Deployed: 02/09/22, 1:32 PM

✓ Successful deployment

Production  
cypress-test [Production]

Deployed: 02/09/22, 1:33 PM

✓ Successful deployment

Drive carefully



**PBIPs are in preview**

**DATA**  
SATURDAYS





- 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

[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?

The logo for Data Saturdays. It features the word "DATA" in a large, white, sans-serif font. To the left of the "D" is a blue icon consisting of three horizontal bars of increasing length, resembling a stylized "D" or a data bar chart. Below "DATA" is the word "SATURDAYS" in a smaller, white, sans-serif font.

The logo for Chn0va community. It features a stylized "C" in blue and yellow, followed by the text "hn0va" in blue. Below "hn0va" is the word "community" in a smaller, blue, sans-serif font.

# About me

Business Intelligence Architect @



+10 years in Microsoft “Data Realm”

Giving my little contribution to the community

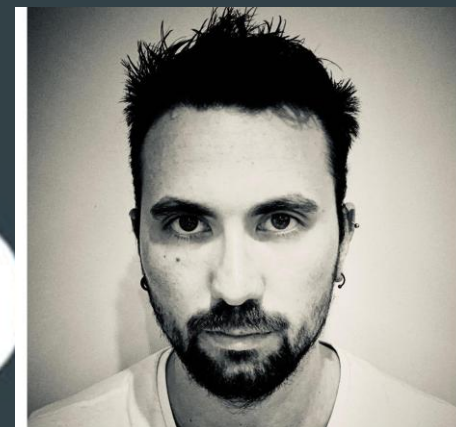
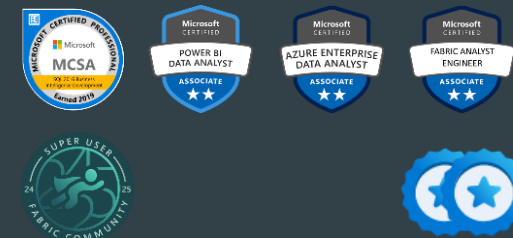
[riccardo.perico@lucient.it](mailto:riccardo.perico@lucient.it)

 @R1k91

 [linkedin.com/in/riccardo-perico](https://www.linkedin.com/in/riccardo-perico)

 [github.com/R1k91](https://github.com/R1k91)

 [medium.com/riccardo-perico](https://medium.com/riccardo-perico)



**DATA SATURDAYS**



**Grazie!**

**DATA**  
SATURDAYS

