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Microsoft Data Platform MVP



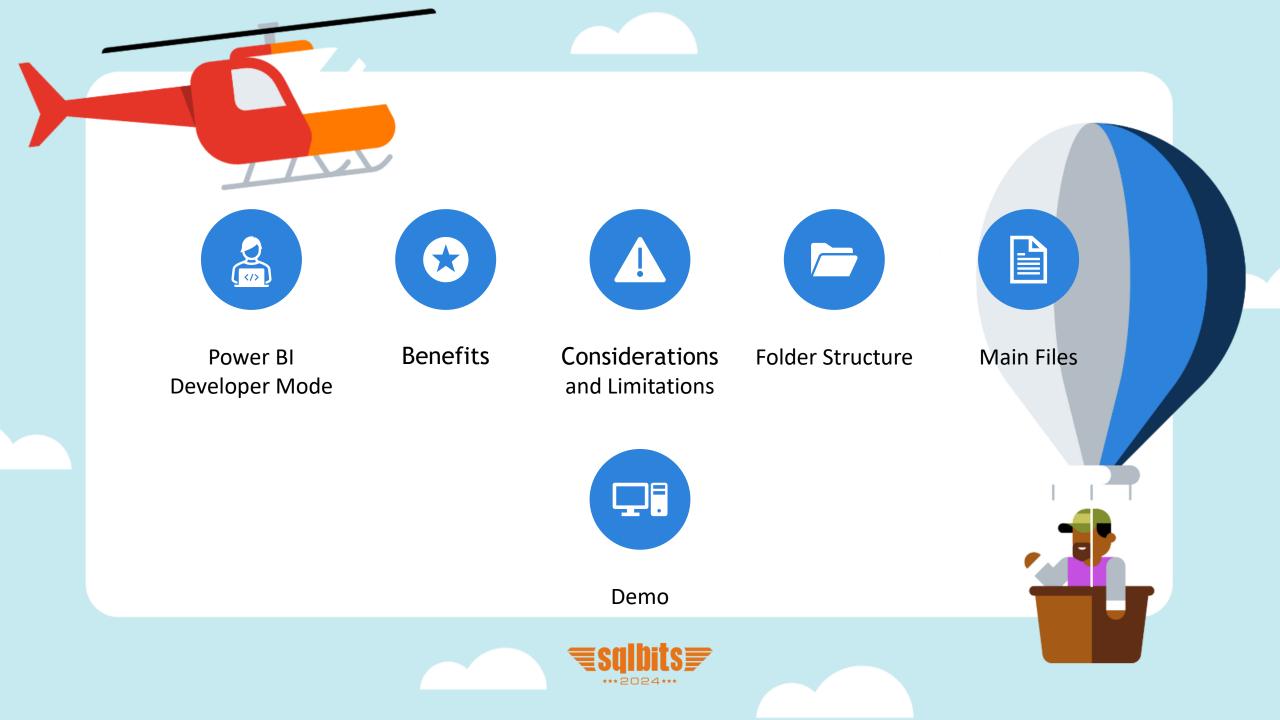
Super User at Fabric Community



https://pbiportugal.com/









Power BI Developer Mode



Power BI developer mode provides a suite of features that enable developer focused capabilities like external tool support, script and API support, source control with Git integration, and Continuous Integration/Continuous Delivery (CI\CD) with Azure DevOps.

New format for saving reports: Power BI Project (PBIP).

As a project, report and dataset artifact definitions are saved as individual plain text files in a simple, intuitive folder structure





Benefits

- Text editor support
 - Files saved as JSON formatted files containing dataset and report metadata
 - Can be edit with simple text editor like notepad
- Programmatic Generation and editing artifact definitions
 - Allows creation of scripts and easy Tabular Model Scripting Language (TMSL) or create custom applications.
 - Tabular Model Definition Language (TMDL) In preview
- Source Control
 - Artifact can be stored in source control systems for example Git.
 - Allows collaboration for resolving conflicts (merge)
- Continuous integration and Continuous Delivery (CI/CD)
 - System validations with quality gates (DevOps CI/CD)







Considerations and limitations

- Power BI Desktop isn't aware of changes made with external tools.
- Sensitivity labels not supported.
- Download PBIX isn't supported for workspaces with Git integration.
- Diagram view is ignored when editing models in the Service.
- Maximum length of the project files path is 260 characters.
- PBIP can't be directly saved to OneDrive for Business and SharePoint.
- Editing PBIP files outside of Power BI Desktop, should be saved using UTF-8 without BOM encoding.
- Report Linguistic Schema is not supported with Power BI projects.
- Power BI Desktop uses CRLF as end-of-line. (GIT configuration needed).







Folder Structure

- \<project name>.Dataset folder
 - A collection of files and folders that represent a Power BI dataset. It contains some of the most important files you're likely to work on, like model.bim
- \<project name>.Report folder
 - A collection of files and folders that represent a Power BI report. The most important file is the "report.json" although during Preview external modifications to this file are not supported.
- <project name>.PBIP file
 - The PBIP file contains a pointer to a report folder, opening a PBIP opens the targeted report and model for authoring.
- .gitlgnore
 - Specifies intentionally untracked files Git should ignore, only metadata should be stored at Git Repo. Data is saved as a local cached copy, called cache.abf, that trend to be a large binary file and therefore ignored by Git.
- The <project name> precedent allows saving multiple projects in the same folder





Main Files

- model.bim
 - Folder: \<project name>.Dataset folder

Contains a Tabular Model Scripting Language (TMSL) Database object definition of the project model.

Edit trough Text Editor or Tabular editor

- report.json
 - \<project name>.Report folder

Defines a report including visuals, page layout, and intended interactions. During preview, this file doesn't support external editing.





Demo

- Model:
 - Measures
 - Queries
 - Diagram Layout
- Report:
 - Pages
 - Filters
 - Fields and titles
 - Bookmarks



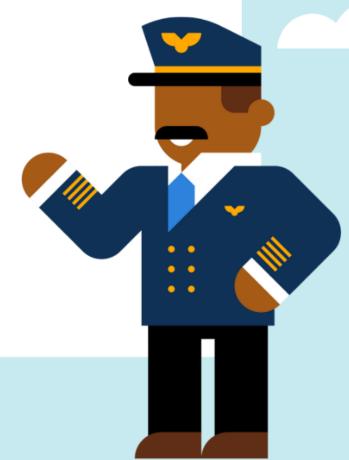




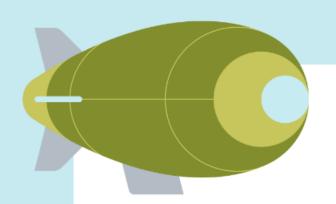
Why use developer mode

- Flexibility
- Option if external tools are not available
- Improved readability (model and report)
- Bulk updates
- Copy + Paste
- Access options otherwise more complex
 - Page changes
 - Specific visual definitions
 - •









Thank you



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