

Jak na Power BI Paginated

Kateřina Saryčeva

Data Solutions Lead in Ness Czech



Fabric Analytics Engineer Associate
Power BI Data Analyst Associate
Power Automate RPA Developer Associate



<https://www.linkedin.com/in/katerina-saryceva/>



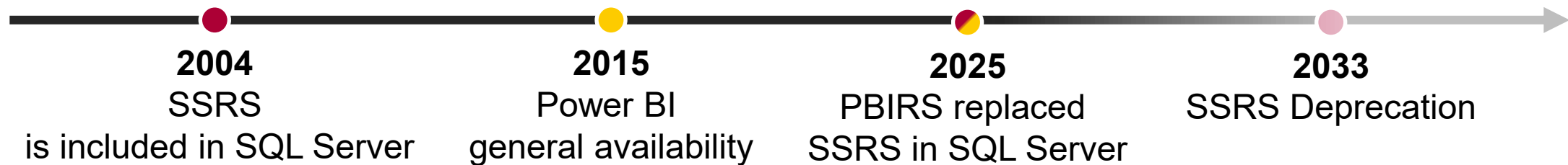
**Ness
Digital
Engineering**

Pixel-perfect reports by Microsoft

Report Definition Language (**RDL**) – XML-based schema for report definition.

Available in

- SQL Server Reporting Services (SSRS)
- Power BI Report Server (PBIRS)
- Power BI Service.



Licensing & Prerequisites



No standalone license



**Same licenses
as for Power BI Reports**

No Premium license required!



Can be a part of SQL Server

SSRS in SQL Server 2022 or older.
PBIRS in SQL Server Enterprise SA
or any SQL Server 2025

NEW

- You don't need a license to [download Power BI Report Builder](#) from the Microsoft Download Center for free.
- With a free license, you can publish paginated reports to My Workspace in the Power BI service.
- With a Power BI Pro license or a PPU license, you can publish paginated reports to other workspaces. You also need at least a [contributor role](#) in the workspace.
- You need [Build permission for the dataset](#).

Why do we still need Paginated reports?



Designed for printing - configurable page margins, pagination, repeating table headers etc.



Built for operational reporting - is suitable for transactional details and long tables



Suitable for formal documents - invoices, certificates, Financial Statements

Rich & Data-Aware Exporting



More formats
for Export &
Subscriptions

xlsx, pdf, csv, pptx, docx, xml

No limitation
for exported
number of
rows

Power BI:
30000 to csv, 150000 to xlsx

Multi-page
documents

Multi-sheet
Excel files



imgflip.com

Design tools



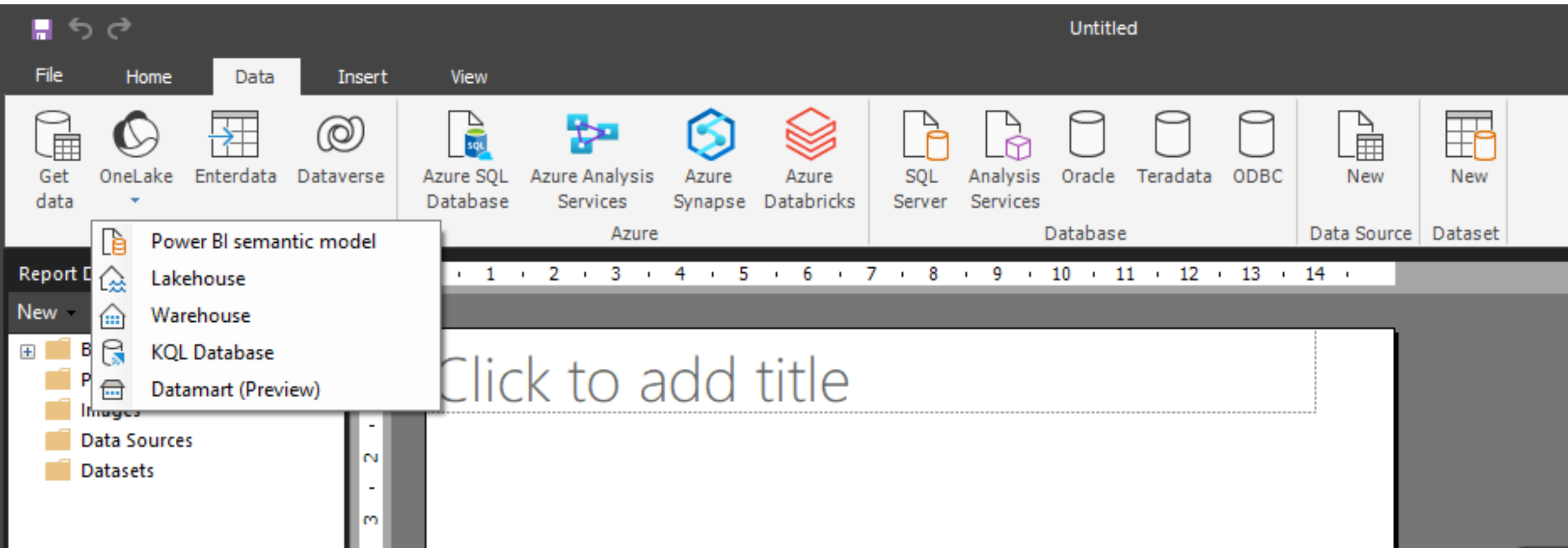
**Microsoft
Report Builder**



**Microsoft Power BI
Report Builder
or
Power BI Service**

Microsoft® Power BI Report Builder

Data tab with Power Query!



Before you visualize

1. Change <rd:ReportUnitType> unit to Point in text editor to avoid hidden Excel columns
2. Configure page layout - fixes take a lot of time
3. Remember, it is just an XML

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <Report MustUnderstand="df" xmlns="http://schemas.microsoft.com/sql
3   <rd:ReportUnitType>Point</rd:ReportUnitType>
4   <rd:ReportID>87907e76-9aeb-471d-a561-d36cc3a84ace</rd:ReportID>
5   <df:DefaultFontFamily>Segoe UI</df:DefaultFontFamily>
6   <AutoRefresh>0</AutoRefresh>
7   <DataSources>
8     <DataSource Name="DataSource">
9       <rd:SecurityType>Integrated</rd:SecurityType>
10      <ConnectionProperties>
```




New paginated report authoring experience (Preview)

I wish I knew before...

Measure datatype is not inherited from Semantic Model

Re-configure data formats in Report Builder

DAX function
RdlCustomDaxParameter

Used in RDL only, doesn't work in DAX Studio

```
1 VAR __DSOFilterTable2 =  
2   TREATAS({RdlCustomDaxParameter(@Param_Product_Category,String)}, 'Product'[Category])
```

Paginated reports have an owner in Power BI Service

Unable to render paginated report

This report has been configured by...

The owner of this report could not be found in your Power BI tenant.
Please contact your administrator to have a new owner assigned.

Take over

Paginated reports Embedded into Power BI can't be parametrized in Deployment pipeline

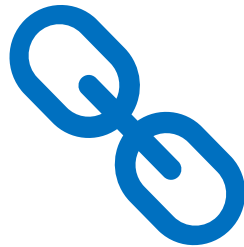
Better use Drill-through (hyperlinks)

Dynamic Control via URL Parameters

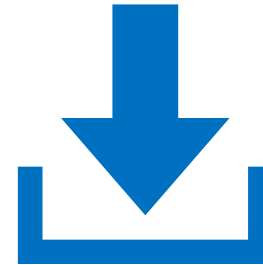
 <https://app.powerbi.com/groups/me/rdlreports/d66b153b-0969-48c0-b489-623d6a6557f9?rp:ExpandSalesperson=True&rdl:format=PDF>



**Browser
Bookmarks**



**Cross-report
Drill-through**



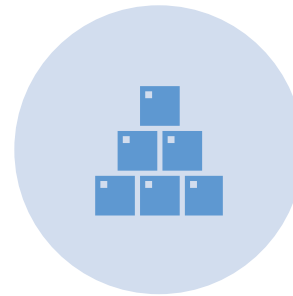
Export

Performance & Capacity considerations



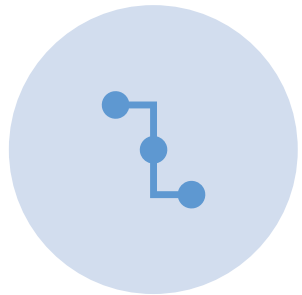
Complex design

Nested [tablix](#), multiple subreport and multiple row and column groups add to the complexity of the design, and require capacity resources.



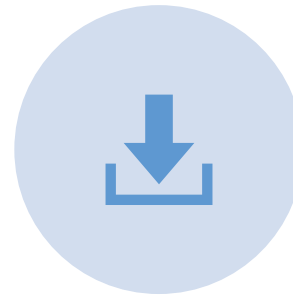
Amount of data

The more data the report needs, the more resources it requires from your capacity.



Data Connections

When you use connectors, drivers or gateways, data retrieval might take longer, require more resources and as a result become more expensive.



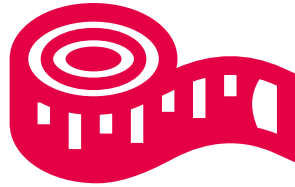
Export requirements

When you export large reports into formats such as Excel and PDF, it requires more resources than reading every page, using toggles, and searching within the reports.

Monitoring & diagnostics



[View diagnostics for Power BI paginated reports](#)



[Create your own Usage metrics report](#)



[Fabric Capacity Metrics App:](#)
don't forget
background operations

RDL Migration

Change activity log retention in SSRS in advance (default is 90 days)!

PBIRS and SSRS
2017+

Publish
button

SSRS 2012 or
higher

RDL
Migration tool
on GitHub

- Only RDL files are moved
- Manual steps: data source connections, user access, subscriptions
- Unsupported features
- Supported data sources

Paginated reports

No
Premium/Fabric
license required

Same old RDL,
but with Power
Query

Basic designer
in Power BI
Service
(preview)

Dynamic URL
is your friend

More export
options

RDL Migration
tool