SQL Server 2016 Reporting Services
the new awesome

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Paul is a Mentor with SolidQ and a Microsoft Data Platform MVP. He consults, writes, speaks, teaches & blogs about business intelligence and reporting solutions. He works with companies around the world to visualize and deliver critical information to make informed business decisions. He is a Director of the Oregon SQL PASS chapter & user group, the lead author of Professional SQL Server 2016 Reporting Services and 14 other titles from Wrox, Packt & Microsoft Press.
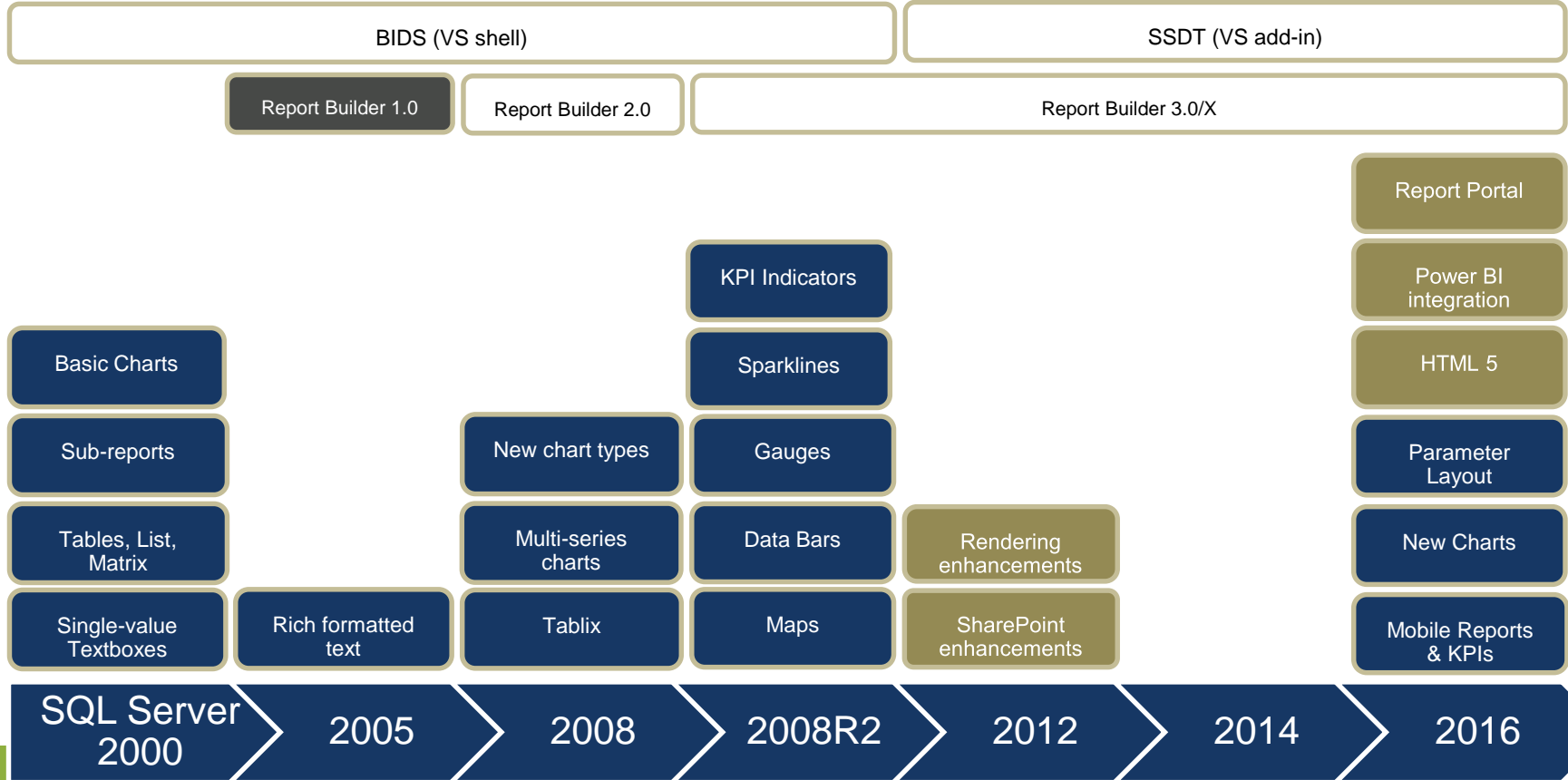
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Publications (in process)

- SQL Server Pro Magazine Article
  http://sqlmag.com/reporting/reporting-services-2016-unplugged

- Wrox Press: Professional SQL Server 2016 Reporting Services

Reporting Services Feature Waves

BIDS (VS shell)		SSDT (VS add-in)	

Report Builder 1.0	Report Builder 2.0	Report Builder 3.0/X	

						Report Portal
			KPI Indicators			Power BI integration
Basic Charts			Sparklines			HTML 5
Sub-reports		New chart types	Gauges			Parameter Layout
Tables, List, Matrix		Multi-series charts	Data Bars	Rendering enhancements		New Charts
Single-value Textboxes	Rich formatted text	Tablix	Maps	SharePoint enhancements		Mobile Reports & KPIs

SQL Server 2000	2005	2008	2008R2	2012	2014	2016

NOW

Reporting Services

Again

Updated BI Roadmap
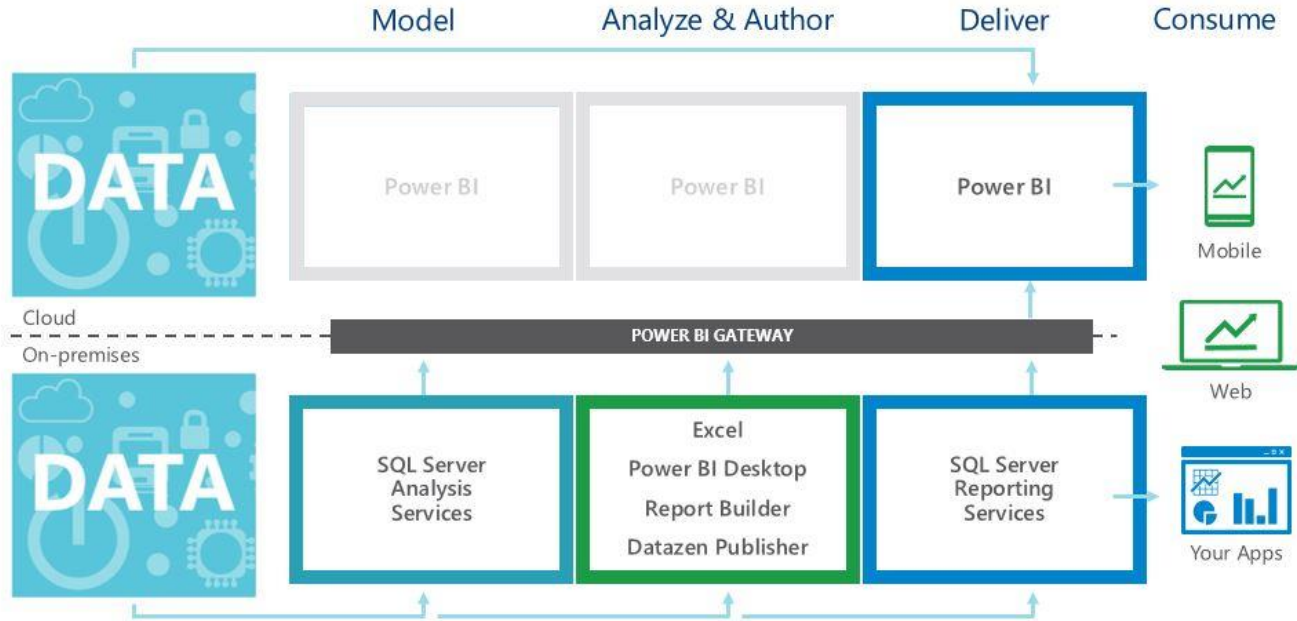
Future direction:
More integration across platforms, products and devices

New Features & Capabilities
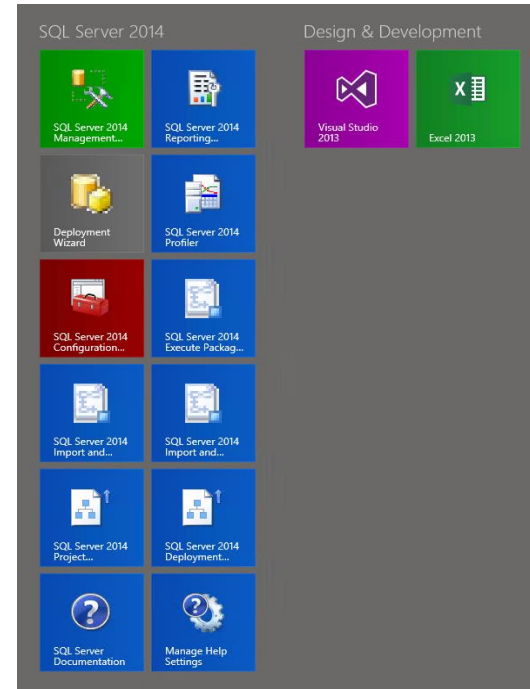
Some new features…

Most new features…

Business Intelligence Tools

- SQL Server Management Studio
- SQL Server Data Tools
  - Database projects
  - Analysis Services Multidimensional
  - Analysis Services Tabular
  - Integration Services
 - Reporting Services
- Reporting Services Configuration Manager

SQL Server Data Tools 2016

- Former "SSDT" and SSDT-BI" are combined into one tool
- Add-in will be installed with SQL Server
- Available for multiple versions of Visual Studio
- Updates available online

Reporting Services Additions

- New Report Portal
- Modern browser rendering
  - HTML 5 standards mode, no longer emulating
  - IE 10+ optimized
- Parameter UI
- New charts
- Report Builder updates
- Mobile Reports
- KPIs
- Printing requires no browser add-in
- PowerPoint rendering
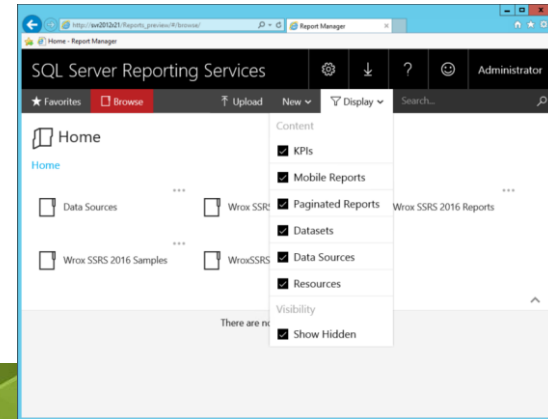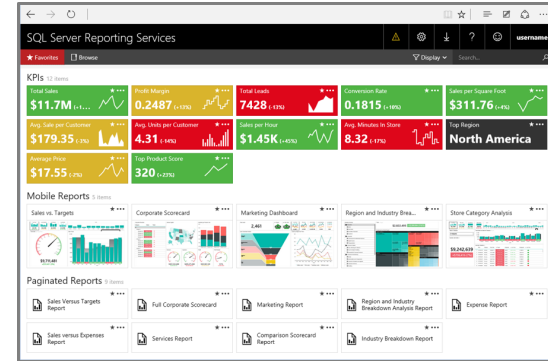
Report Web Portal

- Report server navigation & management

- Same folder structure as Report Manager

- HTML5 responsive design

- Additional content:
  - Mobile reports
  - KPIs
  - (future)
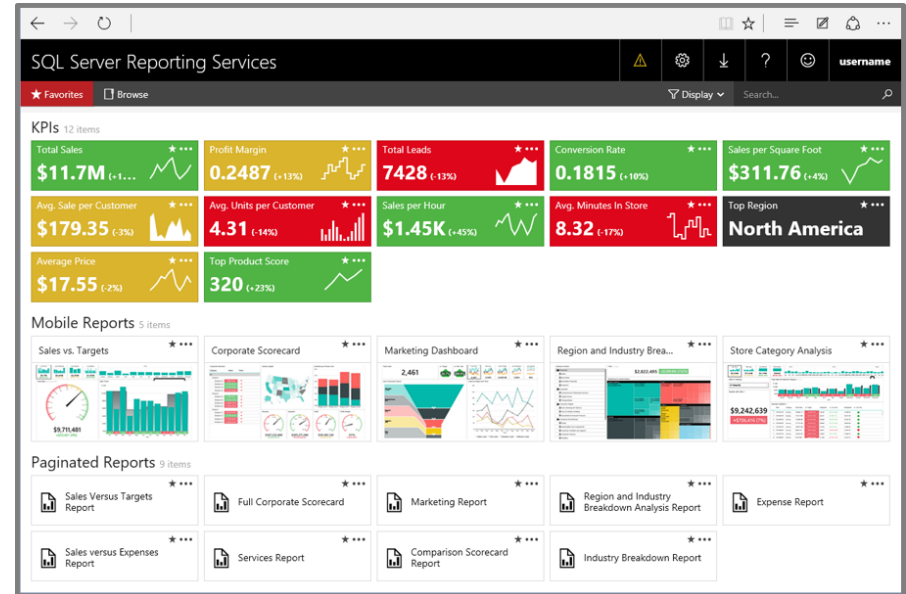
demo

Mobile Reports

- Based on Datazen product acquisition
- Datazen is currently available as an add-on product for existing SQL Server Enterprise customers
- Integration with SSRS:
  - Data sources & shared datasets
 - Mobile Report Publisher

SQL Server 2016 Mobile Reports

- Based on acquisition of Datazen
- Now part of Reporting Services
- Simple by design
- Development scenarios:
  - IT develops data sources & queries, IT designs & deploys dashboards, business uses dashboards & KPIs
  - IT develops data sources & queries, business designs & deploys dashboards, business uses dashboards & KPIs
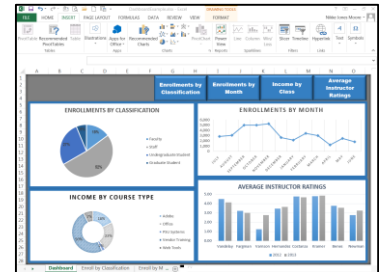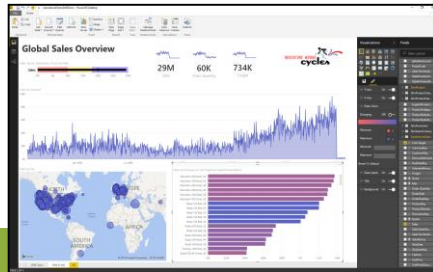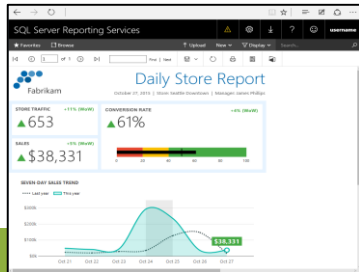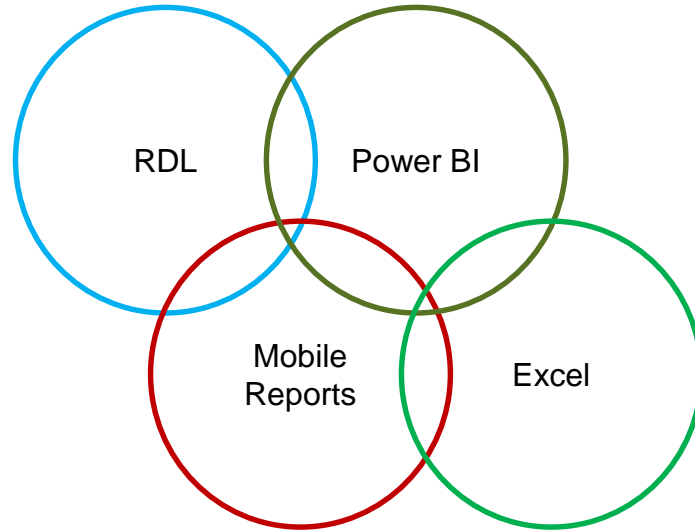
Mobile Reports on Mobile Devices

- All mobile platforms:
  - iPad
  - iPhone
  - Android tablet
  - Android phone
  - Windows 8.1+ Modern
  - Windows 10 Phone
- Actively merging mobile Datazen mobile apps with Power BI mobile apps
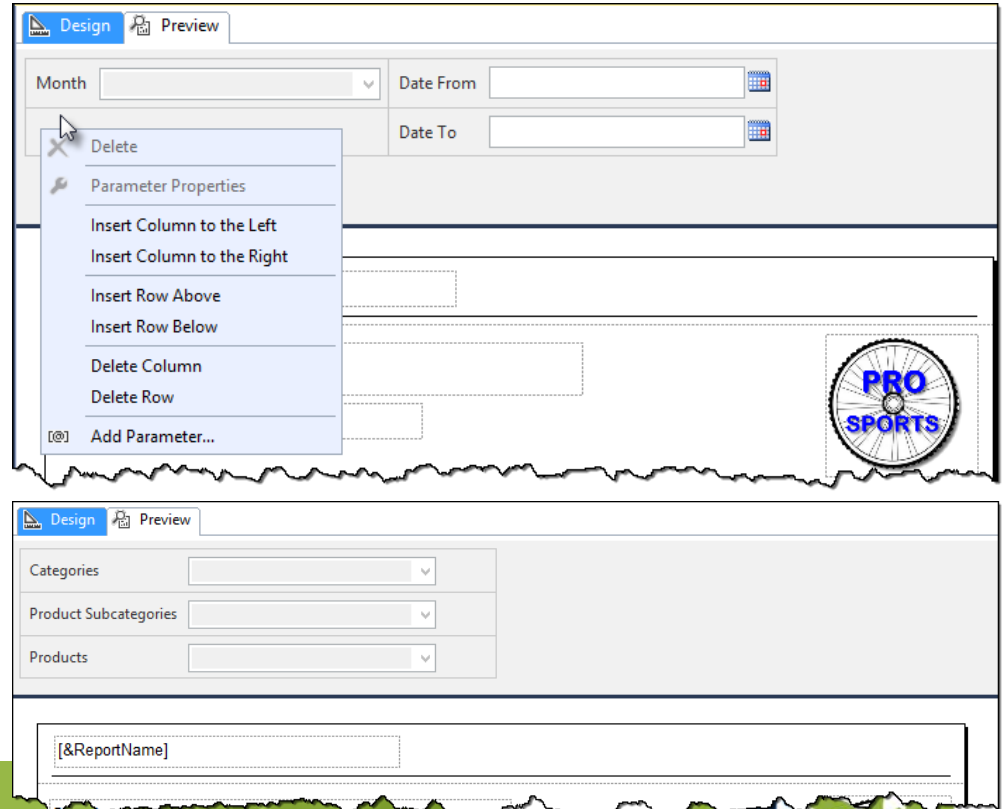
demo

What To Use?

RDL

Power BI

Mobile Reports

Excel
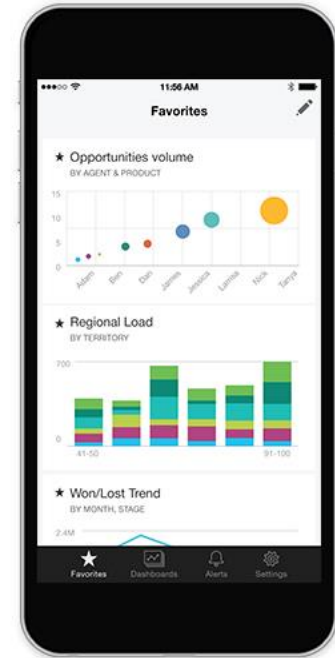
Parameter Layout

- Placement of parameters is independent of parameter order
- Parameters are placed in rows and columns of a grid
- Currently applies to native mode report viewer/Report Manager & Report Portal

demo

2016 RDL Specification

Updated RDL version: **componentdefinition** attribute

```
<Report
xmlns:rd="http://schemas.microsoft.com/SQLSer
ver/reporting/reportdesigner"
xmlns:cl="http://schemas.microsoft.com/sqlser
ver/reporting/2010/01/componentdefinition"
xmlns="http://schemas.microsoft.com/sqlserver
/reporting/2016/01/reportdefinition">
```

New element: **ReportParametersLayout**

```
<ReportParametersLayout>
    <GridLayoutDefinition>
        <NumberOfColumns>1</NumberOfColumns>
        <NumberOfRows>3</NumberOfRows>
        <CellDefinitions>
            <CellDefinition>
        ...
```

demo

New & Improved Visuals

- 2016 RTM is the first step
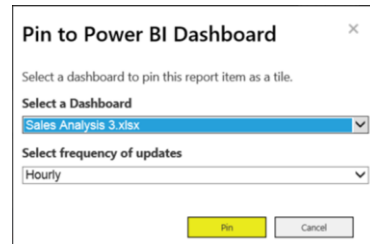- Sunburst
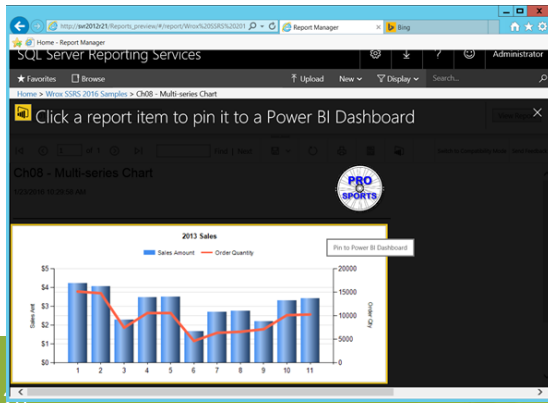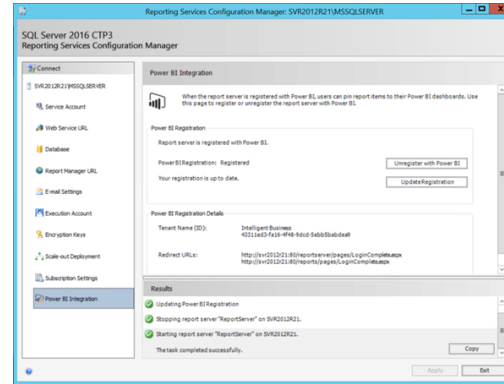- Treemap
- Improved tooltips

demo

PowerPoint Rendering

- Rasterizes all data regions & visuals
- Converts headers & titles to textboxes
- Isolated text to textboxes

demo

Power BI Integration (now)

- Pin SSRS visual report items to Power BI dashboard

demo

Power BI Integration (future)

Product team blog:

https://blogs.technet.microsoft.com/dataplatforminsider/2015/10/29/microsoft-business-intelligence-our-reporting-roadmap

Publish Power BI Desktop Reports on-premises

Power BI Desktop is a data discovery and interactive reporting tool allowing business analysts to connect, prepare, and visually explore data across a freeform canvas. It combines the strengths of Power Query to connect to a vast spectrum of data sources and easily shape data, Power Pivot for rich data blending and modeling, and next generation Power View to intuitively perform visual analytics and author compelling reports.
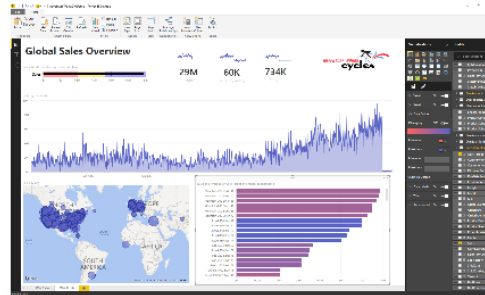
Based on the same technology as Power View, Power BI Desktop supports existing Power View reports and provides the future path to a HTML5 based interactive report experience on-premises.

Chris Finlan's blog:

http://christopherfinlan.com/2016/04/01/whats-the-deal-with-excel-and-power-bi-desktop-files-support-in-reporting-services

References

- **SQL Server Mobile Report Publisher, Microsoft**
  https://www.microsoft.com/en-us/download/details.aspx?id=50400

- **How to create Mobile Reports and KPI's in SQL Server Reporting Services 2016, Chris Finlan**
  http://christopherfinlan.com/2015/12/21/how-to-create-mobile-reports-and-kpis-in-sql-server-reporting-services-2016-an-end-to-end-walkthrough/

- **How to create a mobile dashboard solution with Datazen, SQL Server Pro**
  http://sqlmag.com/business-intelligence/getting-started-datazen-microsoft-s-new-mobile-dashboard-platform

- **Microsoft Business Intelligence Roadmap, Microsoft SQL Server Blog**
  http://blogs.technet.com/b/dataplatforminsider/archive/2015/10/29/microsoft-business-intelligence-our-reporting-roadmap.aspx

- **My Blog**
  SqlServerBiBlog.com

Questions?

Thank You for Attending