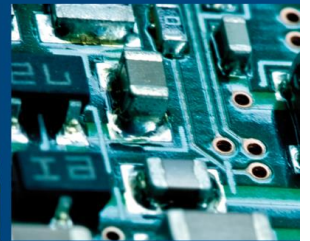


HEMIS Institute 2016

NMMU BI Tools



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(Management Information Unit)
12 August 2016



Mgmt. Info. BI tools at NMMU

Agenda

- What is BI
- Power BI
- SQL Server 2016 Web Portal
 - Data Analytics
 - Forecasting Models
- Demos
- Q & A

What is BI

- Business intelligence (BI) is a technology-driven process for analyzing data and presenting actionable information to help corporate executives, business managers and other end users make more informed business decisions.
- BI encompasses a variety of tools, applications and methodologies that enable organizations to collect data from internal systems and external sources, prepare it for analysis, develop and run queries against the data, and create reports, dashboards and data visualizations to make the analytical results available to decision makers as well as operational workers.

Definition via <http://searchdatamanagement.techtarget.com/definition/business-intelligence>

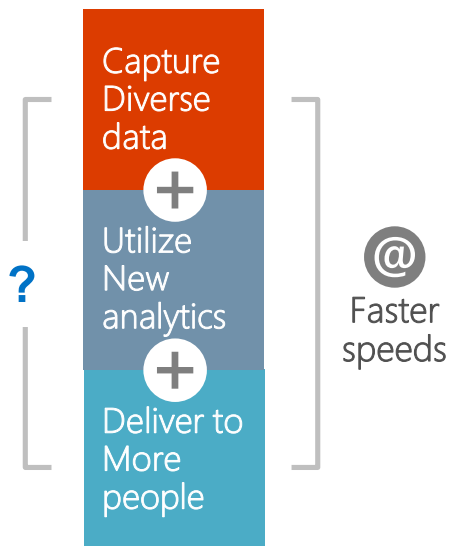
BI Currently

It's bigger
than you may
think

\$1.6T

available
to businesses that embrace data
over the next four years

Data is the new currency!



Data source: Microsoft and IDC, April 2014

Power BI: experience your data

Any data, any way, anywhere

MICROSOFT CLOUD

Microsoft Azure  Office 365
 Microsoft Dynamics

Stream
Analytics

NON-MICROSOFT CLOUD

 Acumatica  Marketo  Salesforce
 comSCORE  Intuit QuickBooks  Twilio

ON-PREMISE DATA

 Hadoop  SAP Microsoft SQL Server
ORACLE TERADATA IBM

Intelligent
Apps



45,000
organizations
500,000
unique users
185
countries

What is Microsoft's Power BI



- ➔ Live dashboards provide a 360° view of your business
- ➔ Track your data in real-time with support for streaming data
- ➔ Drill through to underlying reports to explore in more detail
- ➔ Pin new visualizations and KPIs to monitor performance

Live dashboards & reports

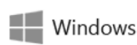


- **Fast and easy access to your data**
- **data discovery and exploration**
- **Insights from any device**
- **collaboration across your organization**

Mobile apps

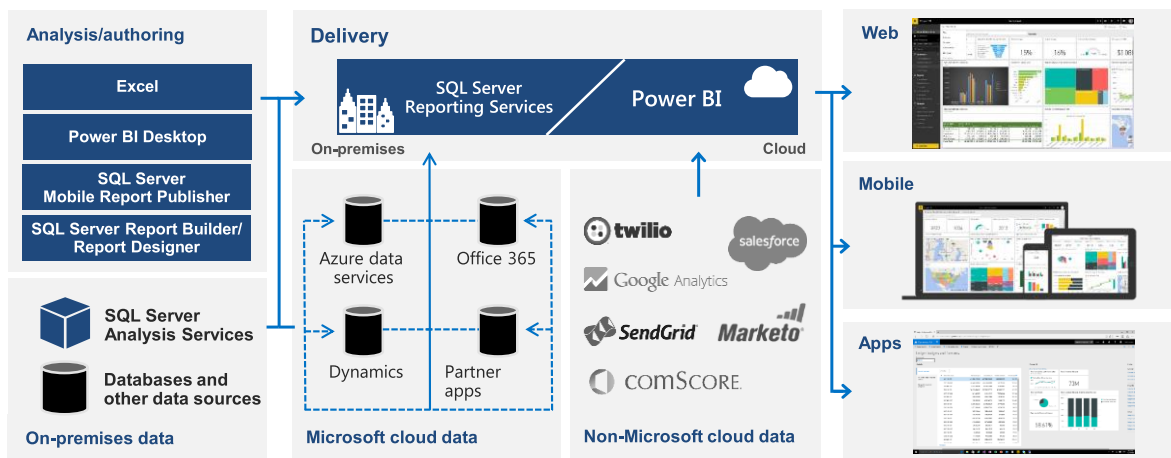


- ➔ Native apps for iPad, iPhone, Android and Windows devices
- ➔ Receive alerts to important changes in your data
- ➔ Share and collaborate with colleagues and take action



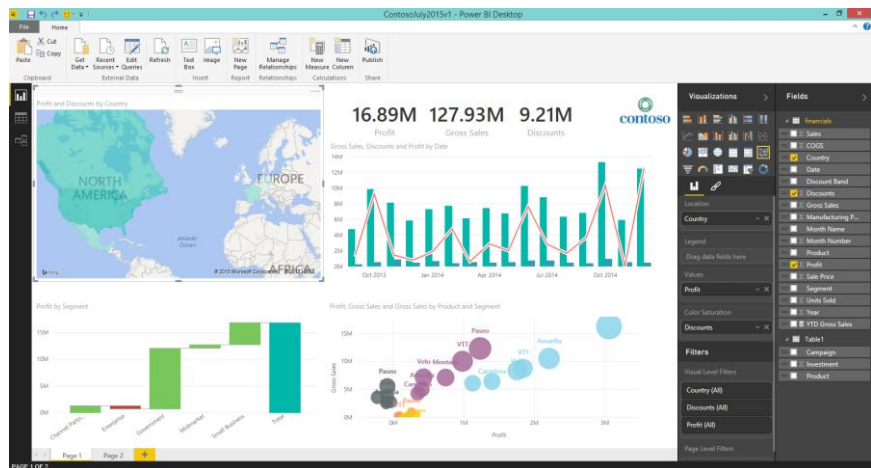
Microsoft business intelligence & analytics

Tools Defined



Power BI Desktop

- **Power BI Desktop:** Standalone on-prem app in off-line state (Excel not needed). Create reports with integrated versions of Power Query, Power View and Power Pivot data model, then upload to Power BI (on-prem SharePoint not supported). **64-bit download**
- Uploaded via Get Data ->Files -> .pbix (Power BI Desktop File)
- Uploaded is Datasets and Power View reports (Q&A built-in)
- Can import Excel workbooks that contain Power Query, Power Pivot, and Power View

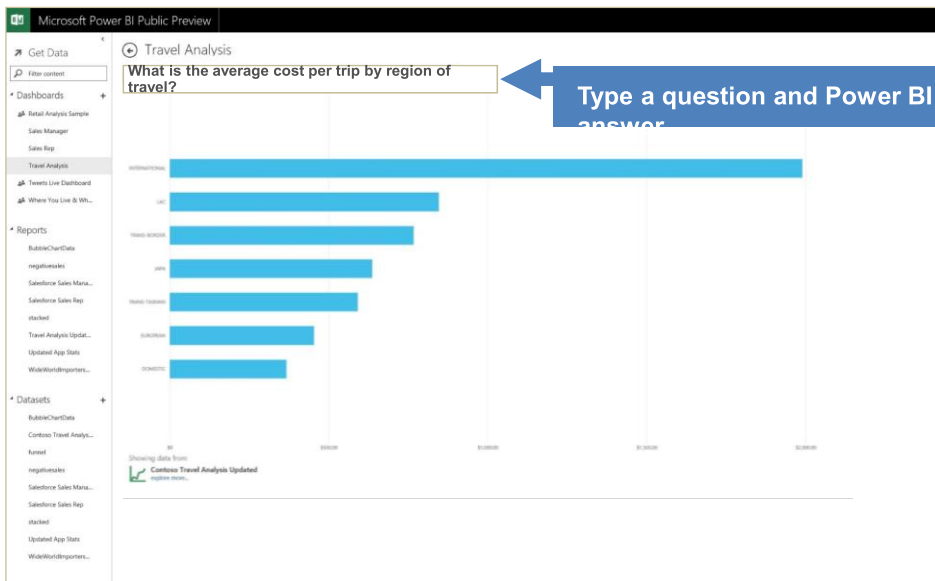


Note: Desktop reports can't be refreshed after uploaded– must be refreshed manually in Desktop an uploaded again (may not be true in future) but datasets can be refreshed

Updated monthly: <https://powerbi.microsoft.com/en-us/documentation/powerbi-desktop-latest-update/>

Ask questions of your data

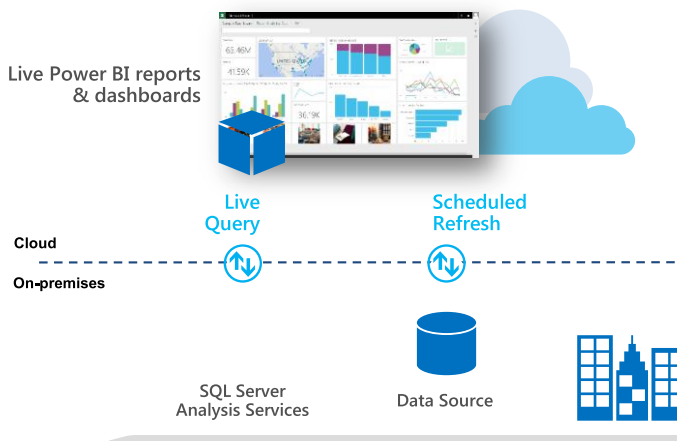
Natural Language Query



Type a question and Power BI gives you the answer

Connect live to your on-premises data

Live Query & Scheduled Data Refresh



- Deploy quickly with a hybrid BI solution
- Manage and secure data on-premises with SQL Server Analysis Services
- Optimized query performance for interactive data exploration
- Scheduled refresh from on-premises data sources

Demo



Report Services 2016

SQL Server Reporting Services On-premises solution for deploying and managing reports



Paginated reports

Design beautiful documents using updated tools and new features

Mobile reports

Create responsive, interactive reports optimized for mobile devices

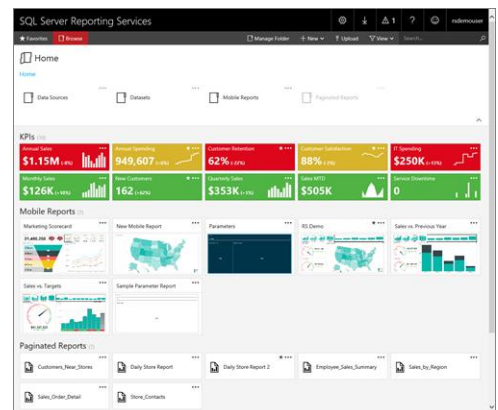
New web portal

Consume both types of reports in one web portal using modern browsers

What's New in Reporting Services?

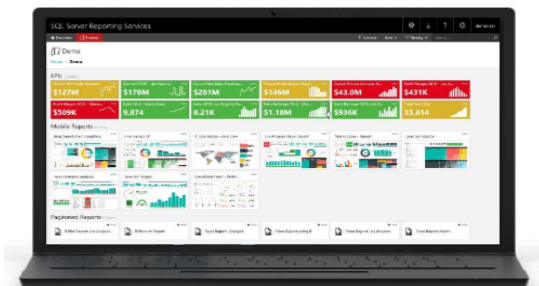
- Reporting Services web portal
- Custom branding for the web portal
- Key performance indicators (KPI) in the web portal
- Mobile Reports
- Mobile Report Publisher
- PDF Replaces ActiveX for Remote Printing
- PowerPoint Rendering and Export
- Pin Report Items to a Power BI Dashboard
- HTML 5 Rendering Engine

SSRS new features



One Central Place

New, modern web portal for reports
Consume paginated and mobile reports in one place



- ➔ Access KPIs and both types of reports in one web portal
- ➔ Designed for modern browsers
- ➔ Built on HTML5 technology

Mobile reports app

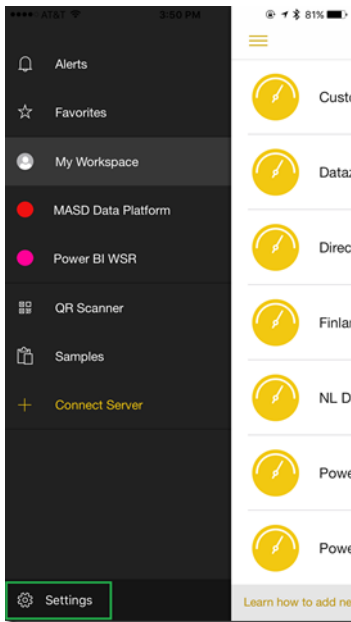
Consume mobile reports
Native apps for all major mobile platforms



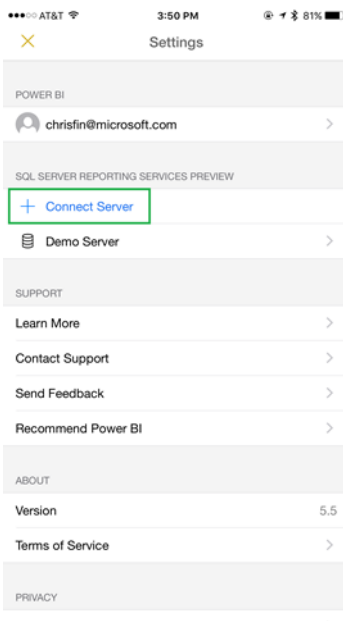
- ➔ One mobile app for Power BI and SSRS mobile reports
- ➔ Native mobile experience optimized for touch
- ➔ Keep data up-to-date with real-time query or scheduled data refresh
- ➔ Interact with mobile reports even when disconnected

In the Power BI app for iOS, open the menu from the top-left.

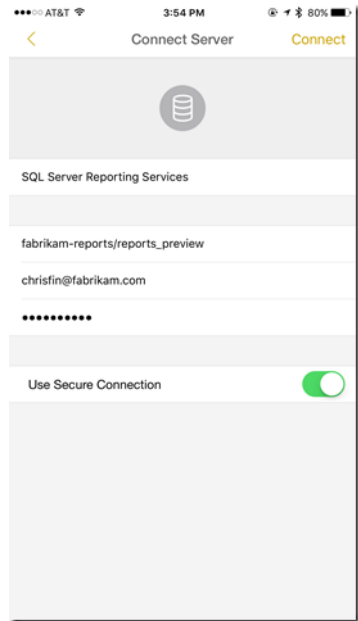
Mobile reports app



Tap **Settings** to open the Settings page

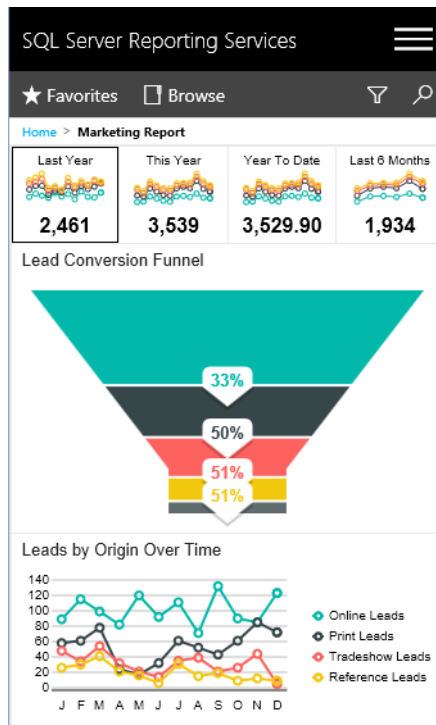


Tap **Connect Server**



In the Power BI app for iOS, open the menu from the top-left.

Mobile reports app (Continued)



Demo



Q & A

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