Introduction To Microsoft Power BI

What is Microsoft Power BI

Power BI is a standalone Microsoft business intelligence product, which includes both desktop and web-based applications for loading, modeling, and visualizing data

Figure 1. Magic Quadrant for Analytics and Business Intelligence Platforms

Source: Gartner (February 2020)

WHY POWER BI?

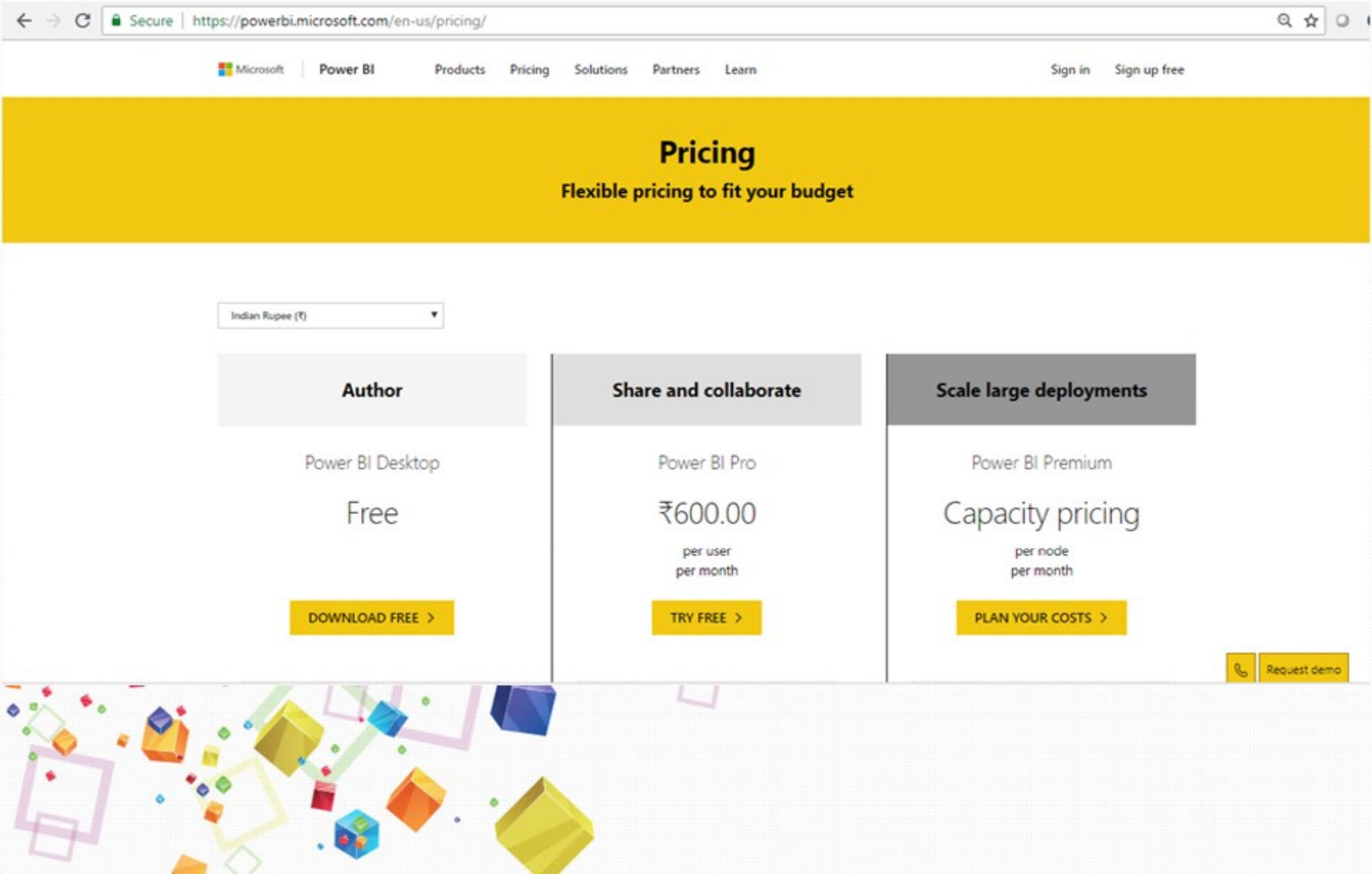
1. **Connect, transform and analyze *millions* of rows of data**
   - Access data from virtually anywhere (database tables, flat files, cloud services, folders, etc), and create fully automated data shaping and loading (ETL) procedures

2. **Build relational models to blend data from multiple sources**
   - Create table relationships to analyze performance across an entire data model

3. **Define complex calculations using Data Analysis Expressions (DAX)**
   - Enhance datasets and enable advanced analytics with powerful DAX expressions

4. **Visualize data with interactive reports & dashboards**
   - **Build custom business intelligence tools with best-in-class visualization and dashboard features**

5. **Power BI is the industry leader among BI platforms**
   - **Microsoft Power BI is intuitive, powerful and absolutely FREE to get started**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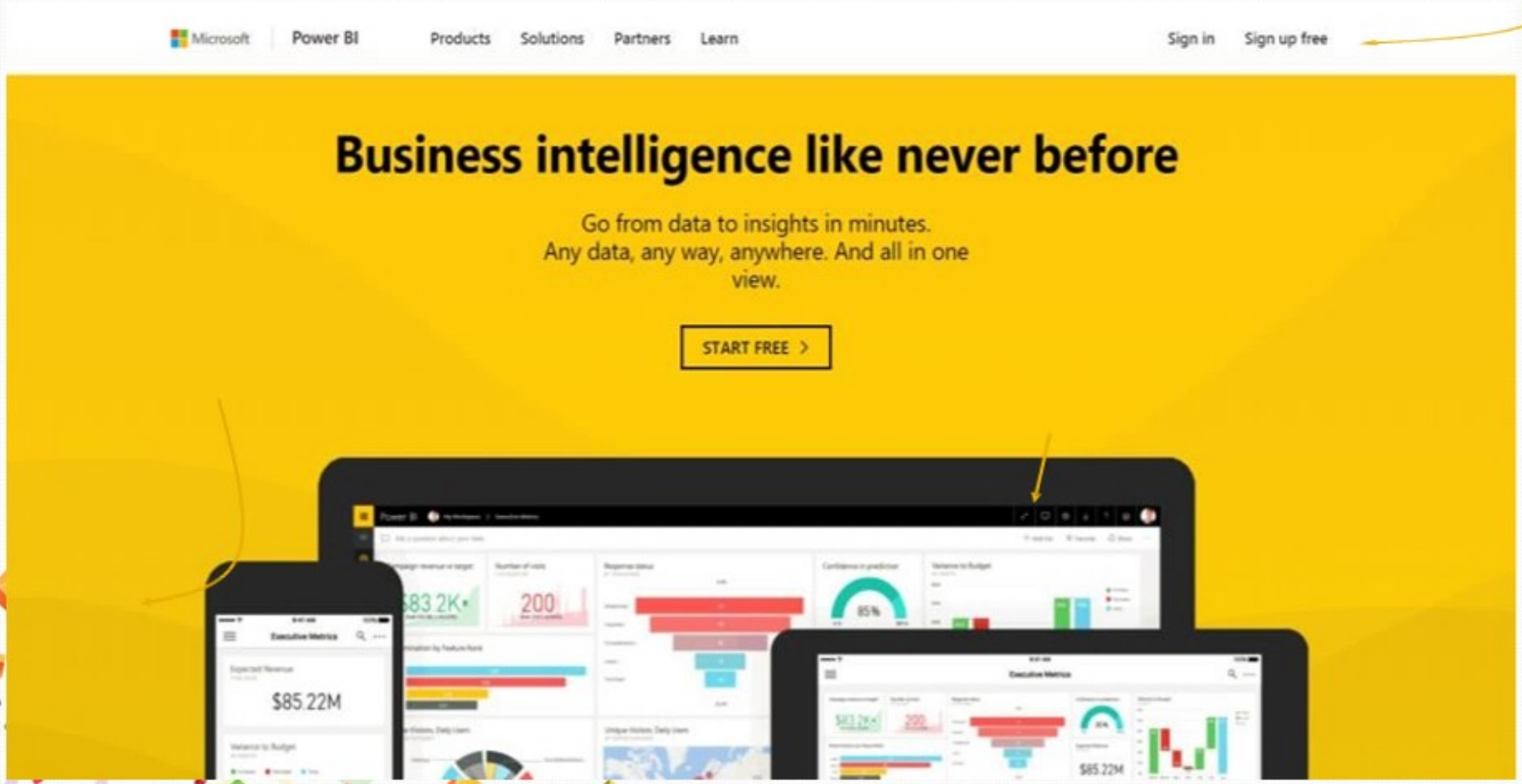
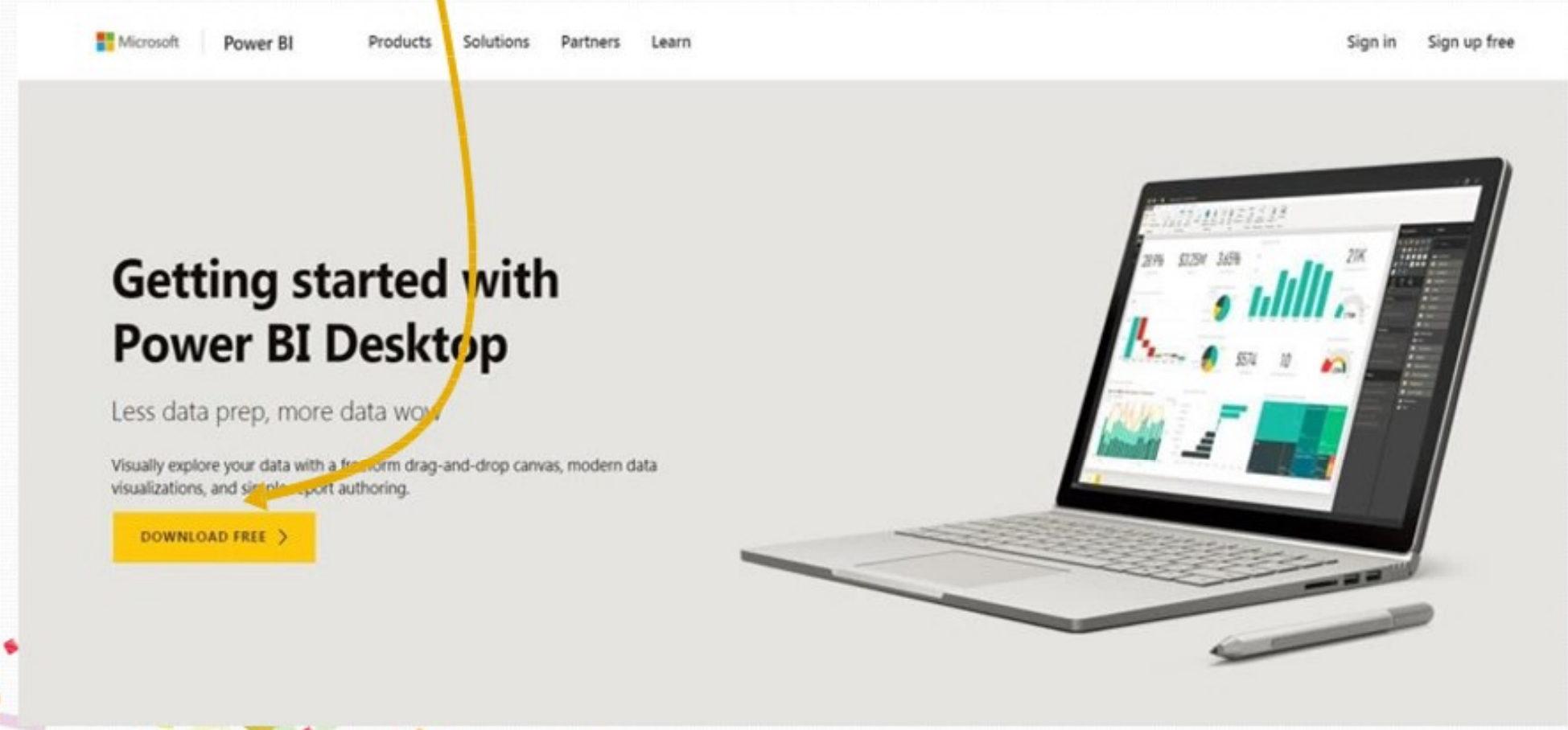
INSTALLING POWER BI DESKTOP

1. Head to **powerbi.microsoft.com** and click **"Sign Up Free"**



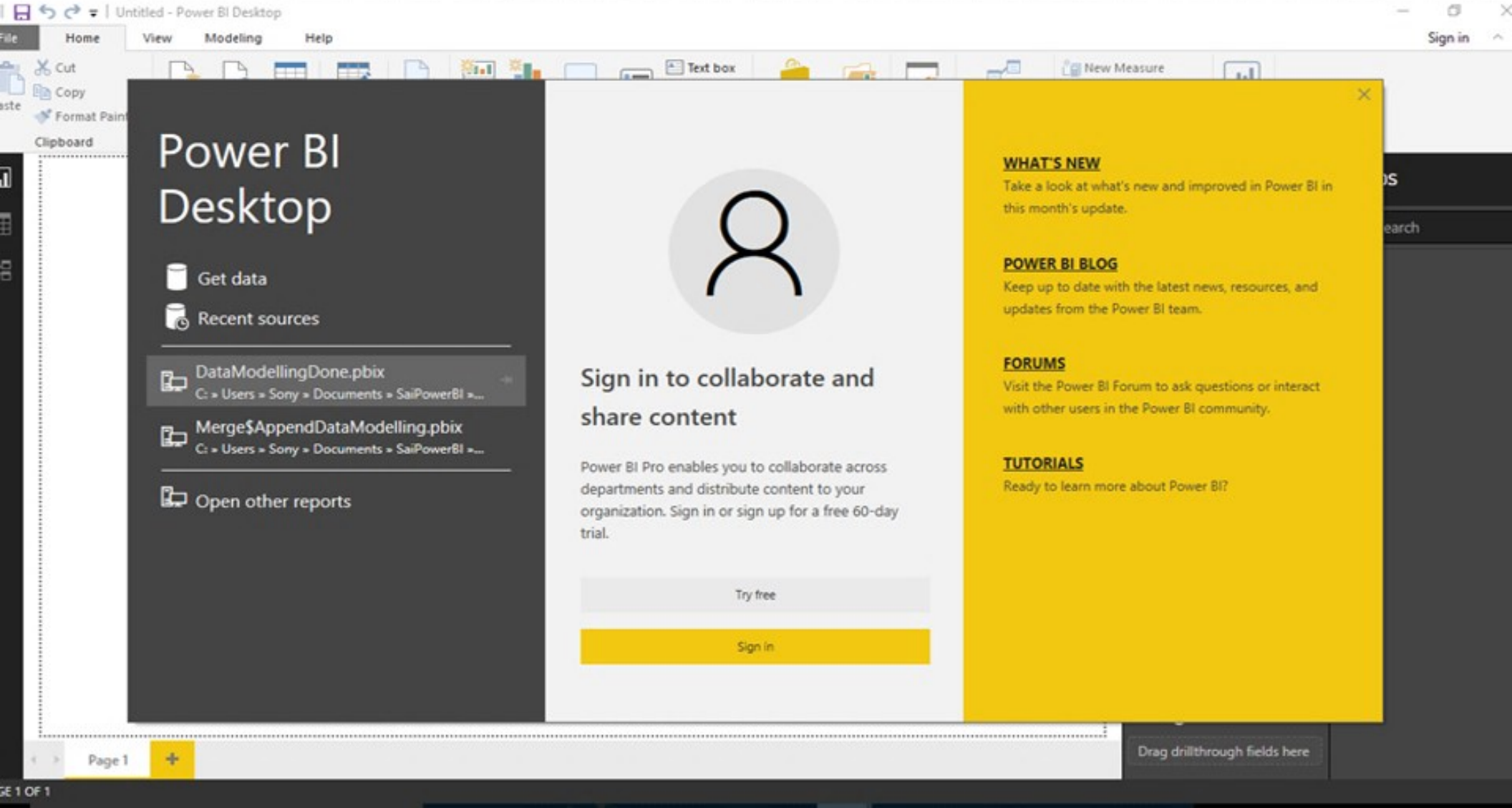
INSTALLING POWER BI DESKTOP

2. Click "**Download Free**" to start the Power BI Desktop download

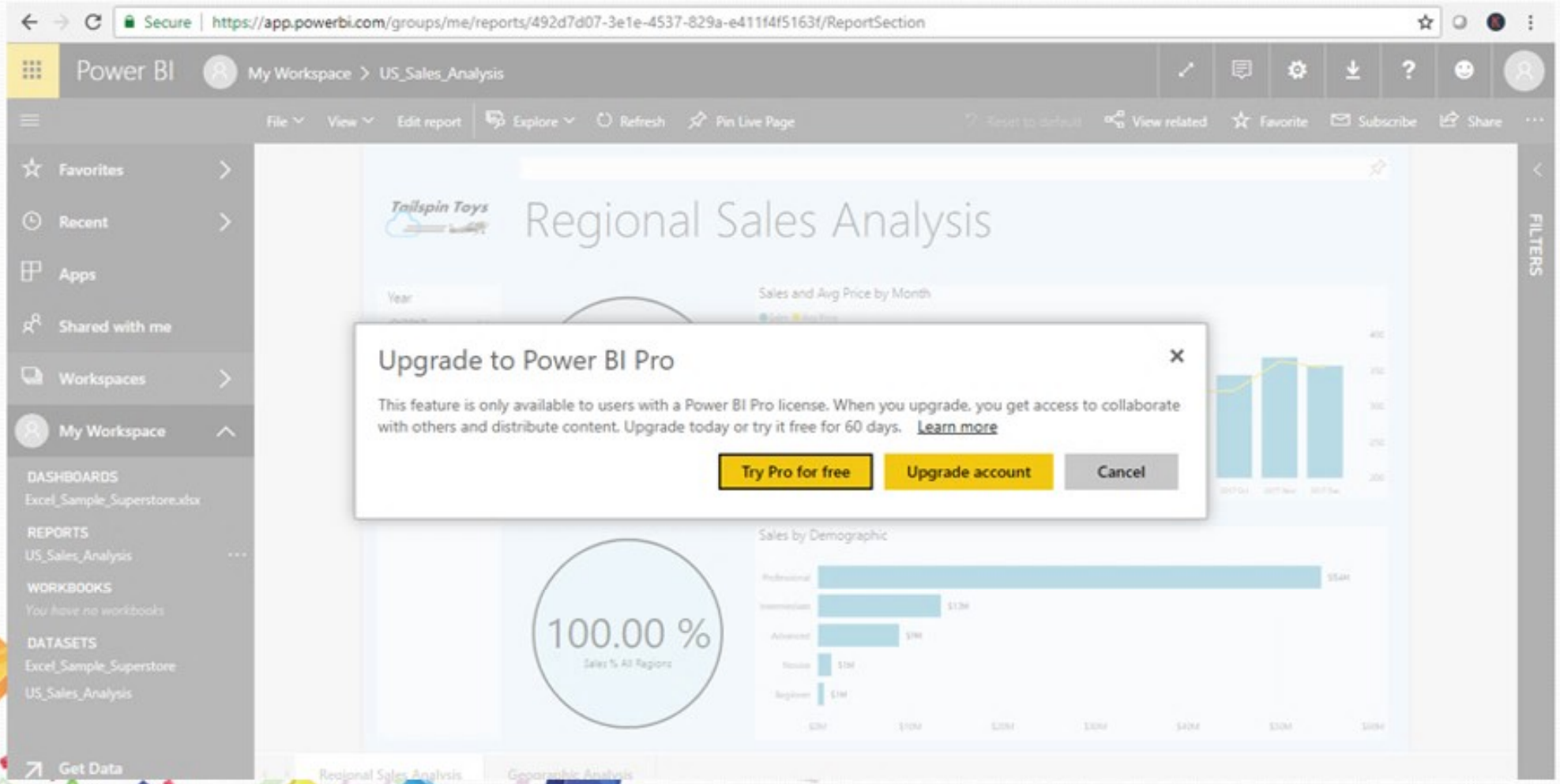


You do **Not** need to sign in or register **for a Power BI Pro account** to access Power BI Desktop (*you can simply close this window*)

- Sign-in is required to collaborate and share content available through Power BI Service (*app.powerbi.com*)
- *You would not be able to sign in through gmail / yahoo account . Microsoft requires a **work** or **school** e-mail address*



You need a Power BI Pro account – to Share and Collaborate your report on Power BI Services .



THE POWER BI INTERFACE

Three Core Views:

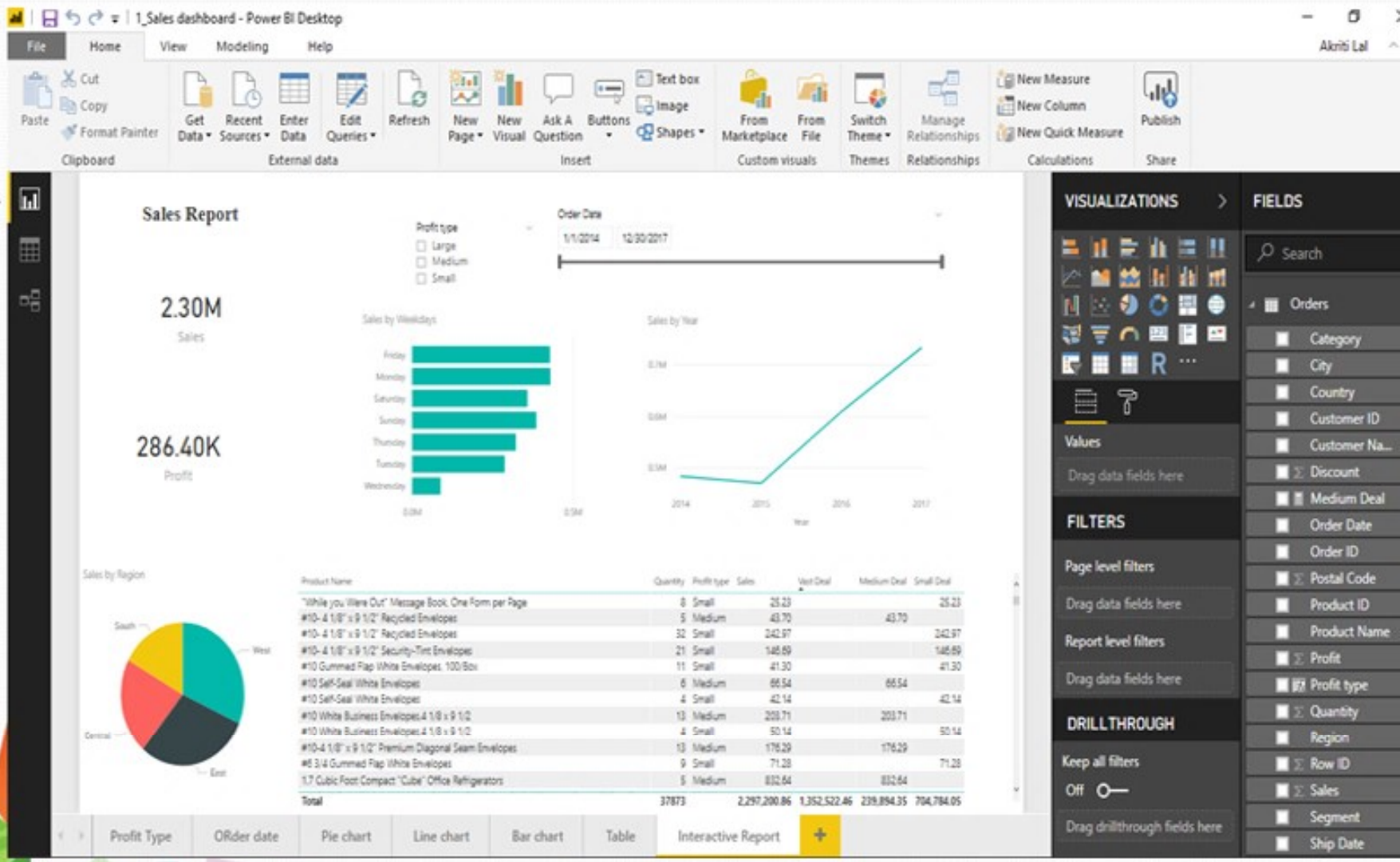
Report

Data

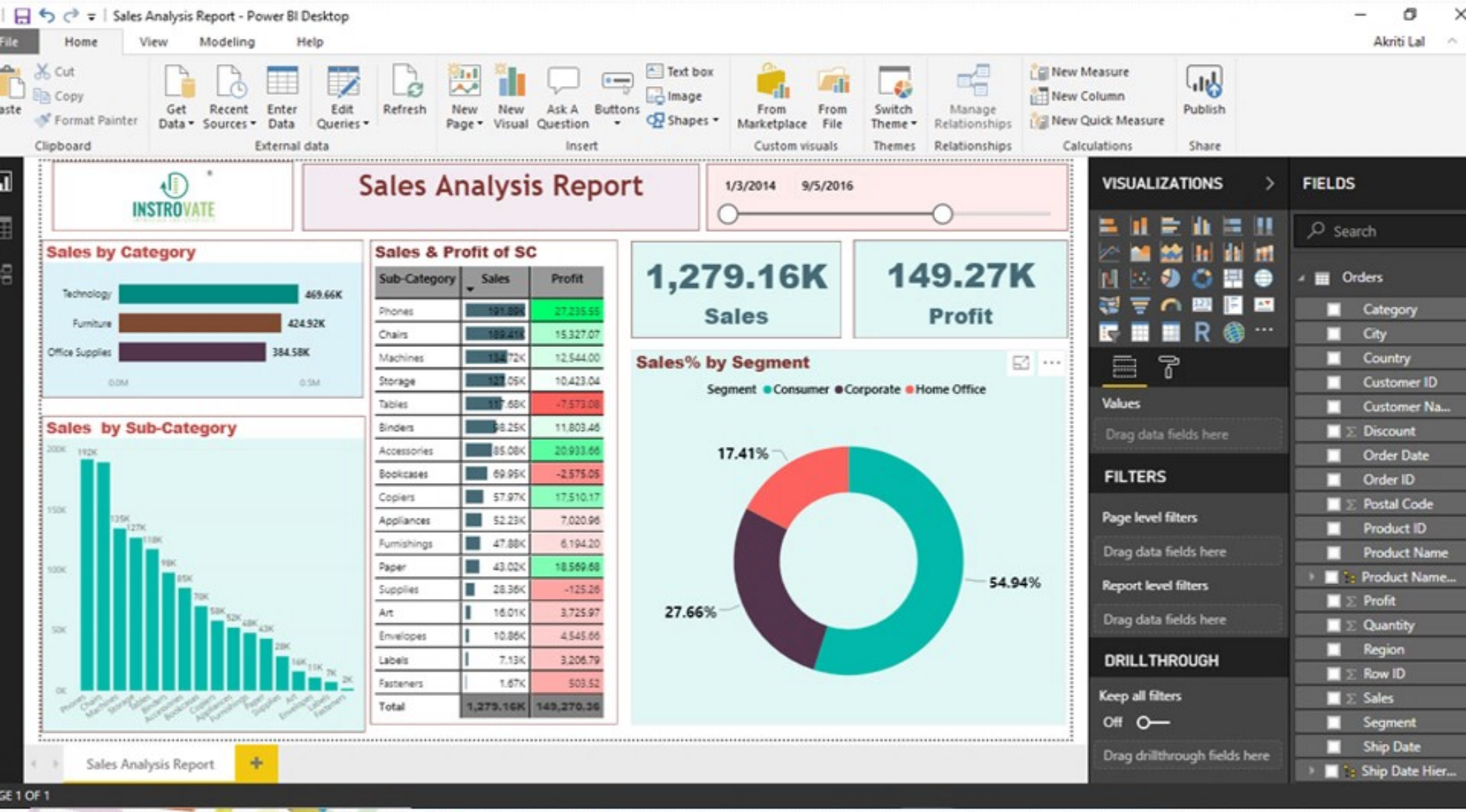
Relationships

/or Model

(2019)



Quick Demo of Creating a Report Using Microsoft Power BI



Power BI

PROS & CONS OF **MODEL BASED TOOL** LIKE POWER BI VS **REPORT BASED TOOL** LIKE TABLEAU

Model Based Tool : Once defined, the same model can be used for different reports.

Report Based Tool : Simple to use, calculations are scoped to a single report only.

PROS

CONS

Model Based Tool : A good model that works with many different reports requires more authoring time.

Report Based Tool : Requires specific data transformation for every report.
These assumes that the input is made by a single table, or something that can be transformed into a single table.