

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)

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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



Pricing

Flexible pricing to fit your budget

Indian Rupee (₹)

Author

Power BI Desktop

Free

[DOWNLOAD FREE >](#)

Share and collaborate

Power BI Pro

₹600.00

per user
per month

[TRY FREE >](#)

Scale large deployments

Power BI Premium

Capacity pricing

per node
per month

[PLAN YOUR COSTS >](#)



[Request demo](#)

INSTALLING POWER BI DESKTOP

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



Power BI

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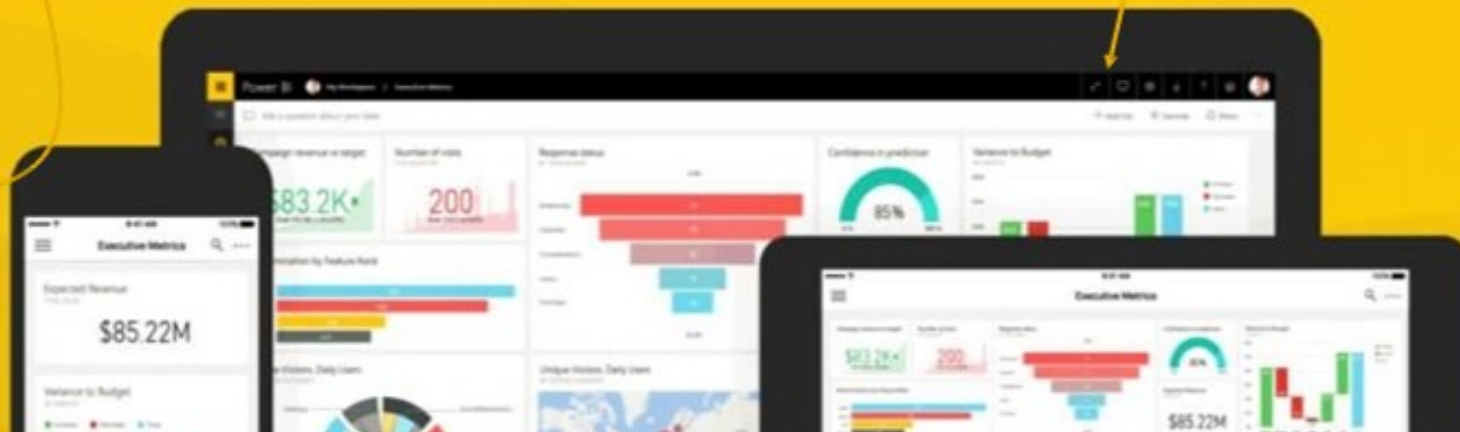
Sign in

Sign up free

Business intelligence like never before

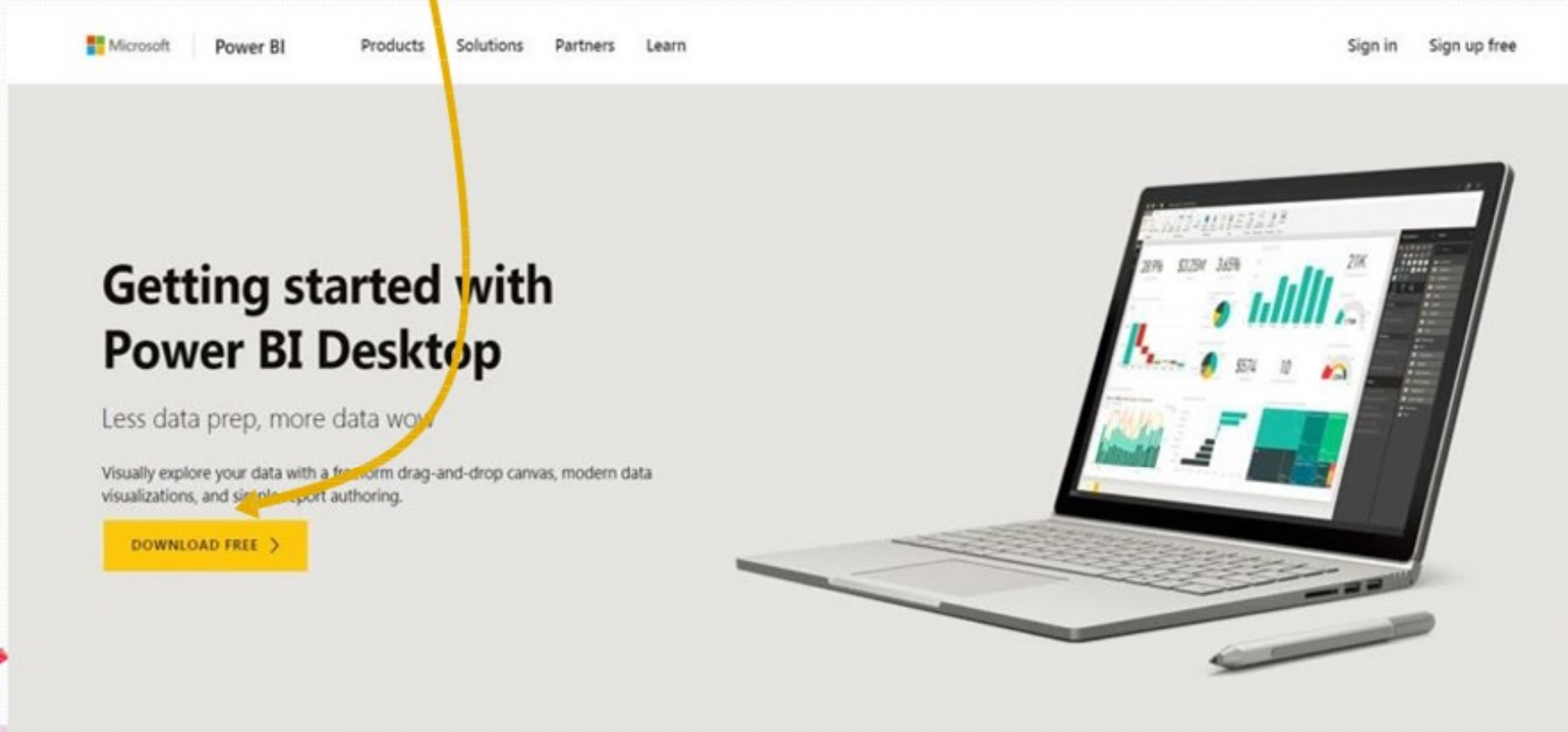
Go from data to insights in minutes.
Any data, any way, anywhere. And all in one
view.

START FREE >



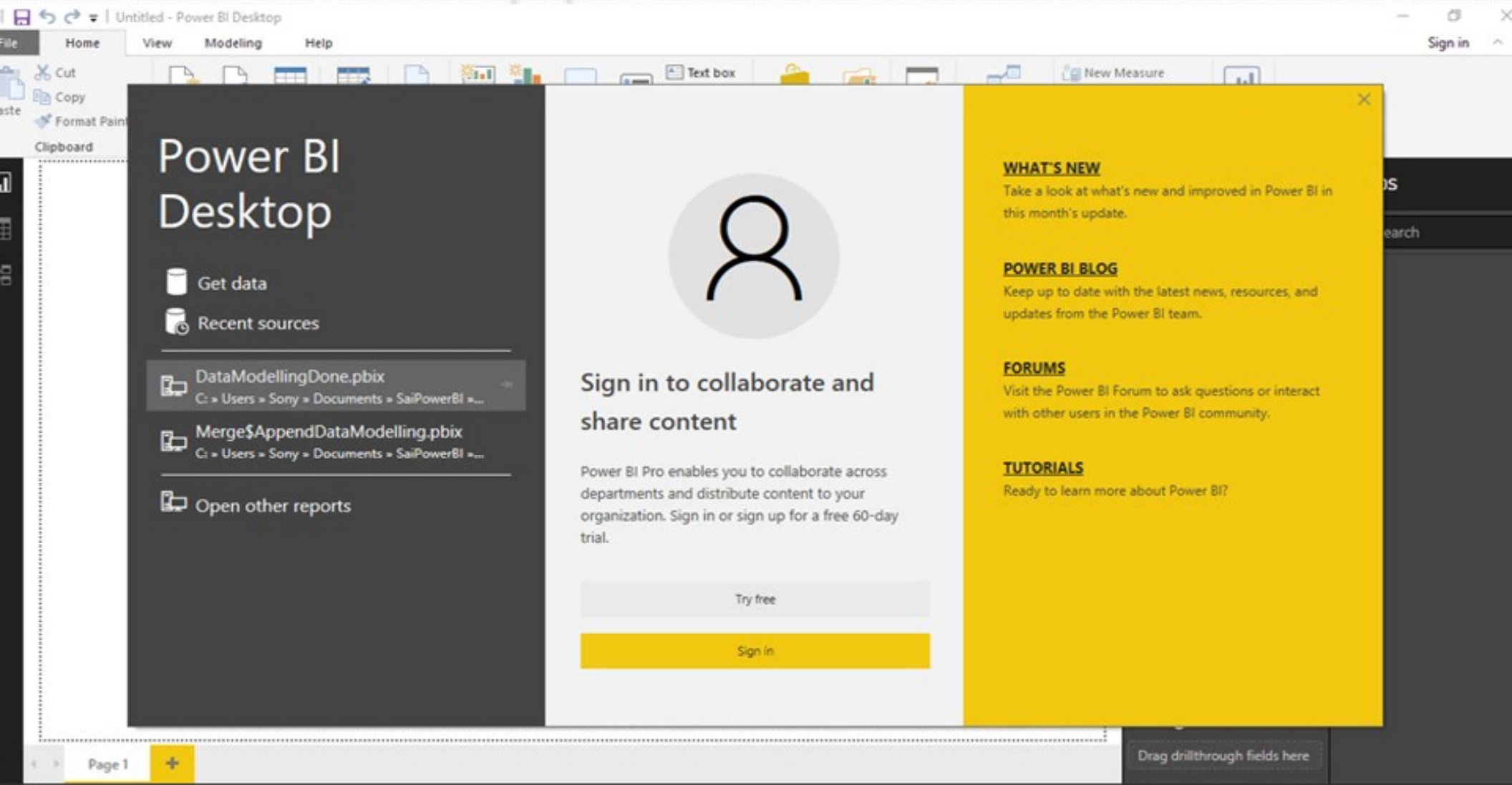
INSTALLING POWER BI DESKTOP

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 screenshot shows the Power BI web application interface. The browser address bar displays the URL: <https://app.powerbi.com/groups/me/reports/492d7d07-3e1e-4537-829a-e411f4f5163f/ReportSection>. The page title is "Power BI" and the user is logged in as "My Workspace > US_Sales_Analysis".

The main content area displays a report titled "Regional Sales Analysis" by "Tailspin Toys". The report includes a "Sales and Avg Price by Month" chart (a combination bar and line chart) and a "Sales by Demographic" horizontal bar chart. A large circular gauge shows "100.00 % Sales % All Regions".

An "Upgrade to Power BI Pro" dialog box is overlaid on the report. The dialog text states: "This feature is only available to users with a Power BI Pro license. When you upgrade, you get access to collaborate with others and distribute content. Upgrade today or try it free for 60 days. [Learn more](#)". The dialog has three buttons: "Try Pro for free", "Upgrade account", and "Cancel".

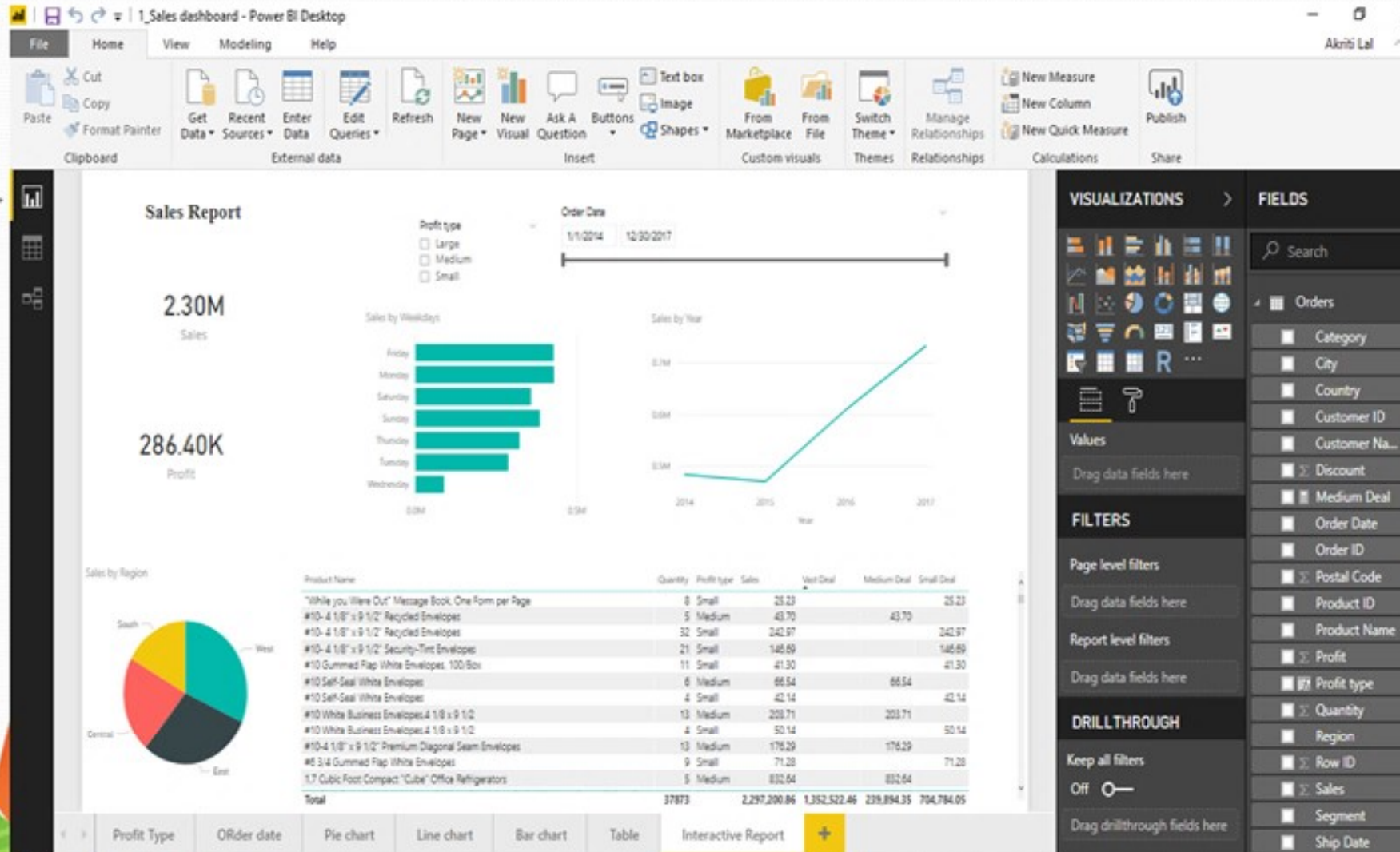
The left sidebar shows the navigation menu with sections: "Favorites", "Recent", "Apps", "Shared with me", "Workspaces", and "My Workspace". Under "My Workspace", there are sections for "DASHBOARDS" (Excel_Sample_Superstore.xlsx), "REPORTS" (US_Sales_Analysis), "WORKBOOKS" (You have no workbooks), and "DATASETS" (Excel_Sample_Superstore, US_Sales_Analysis). At the bottom of the sidebar is a "Get Data" button.

The right sidebar shows a "FILTERS" section.

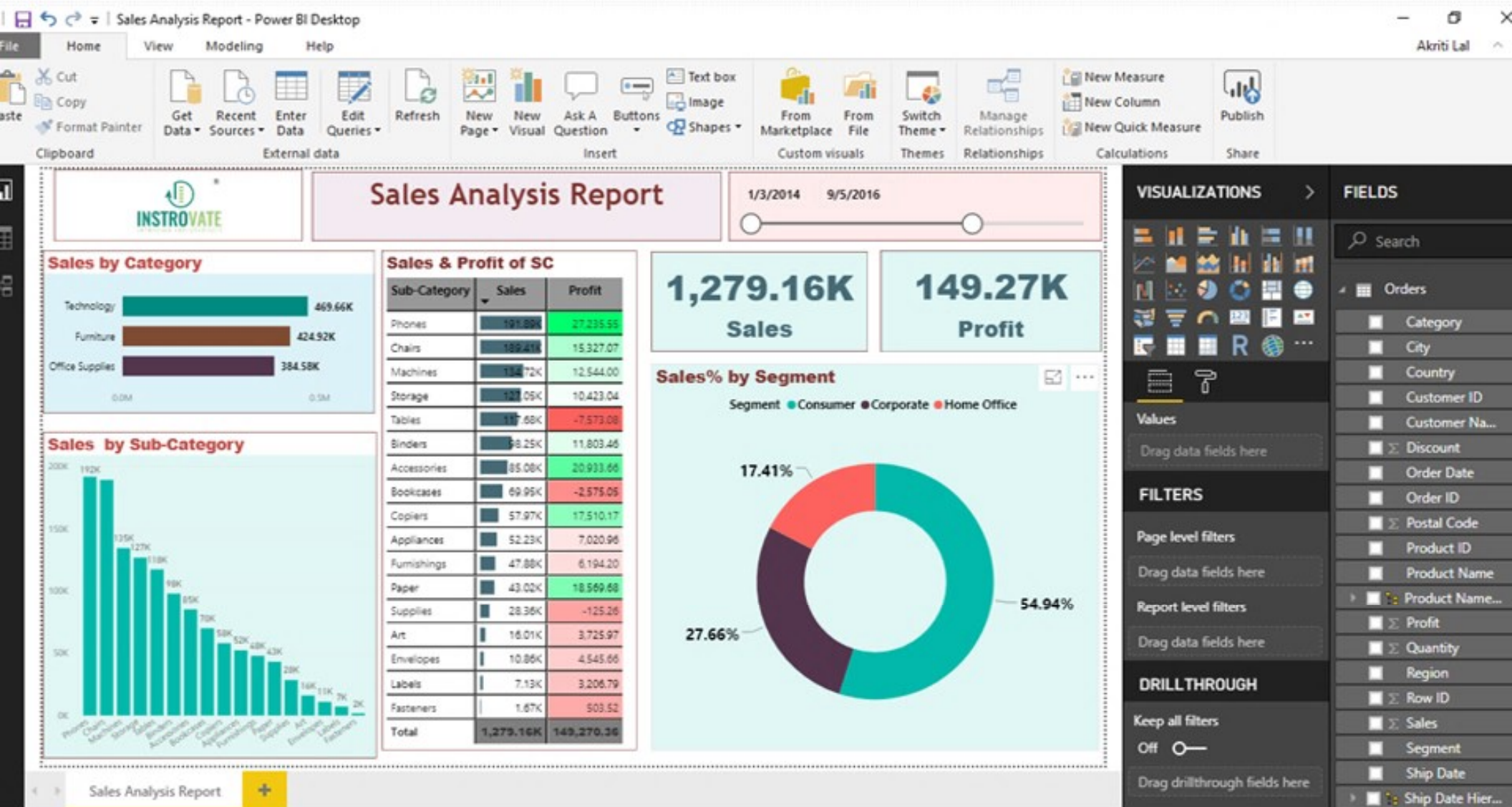
THE POWER BI INTERFACE

Three Core Views:

Report
Data
Relationships
/or Model
(2019)



Quick Demo of Creating a Report Using Microsoft 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.

