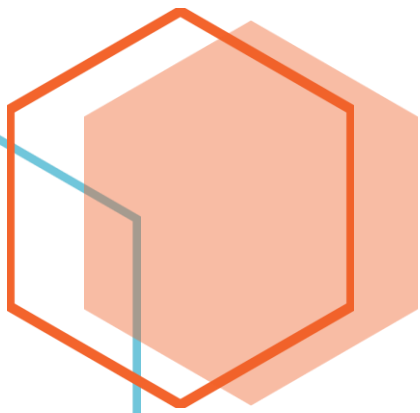




# Assignment 1- Power BI Installation

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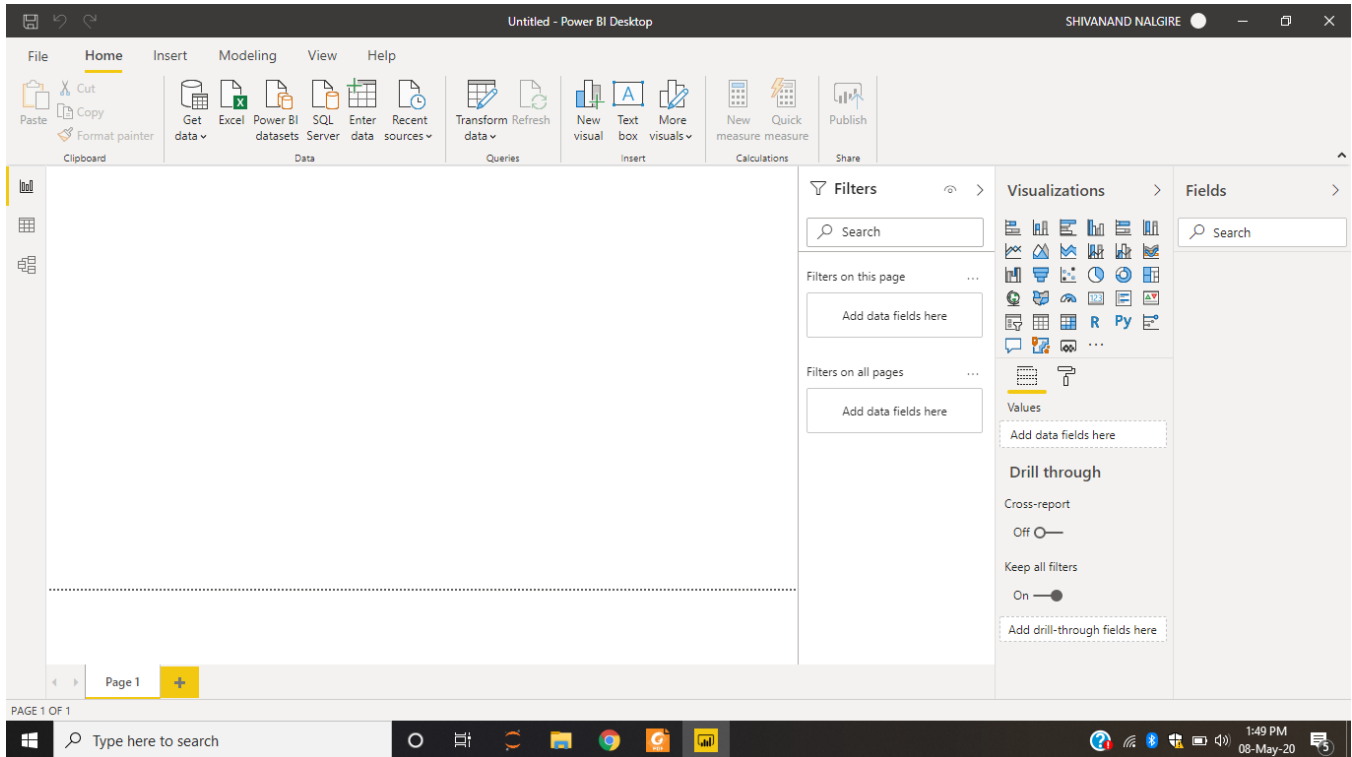
By,  
Shivanand Nalgire  
IIT Bombay



# Power BI Installation

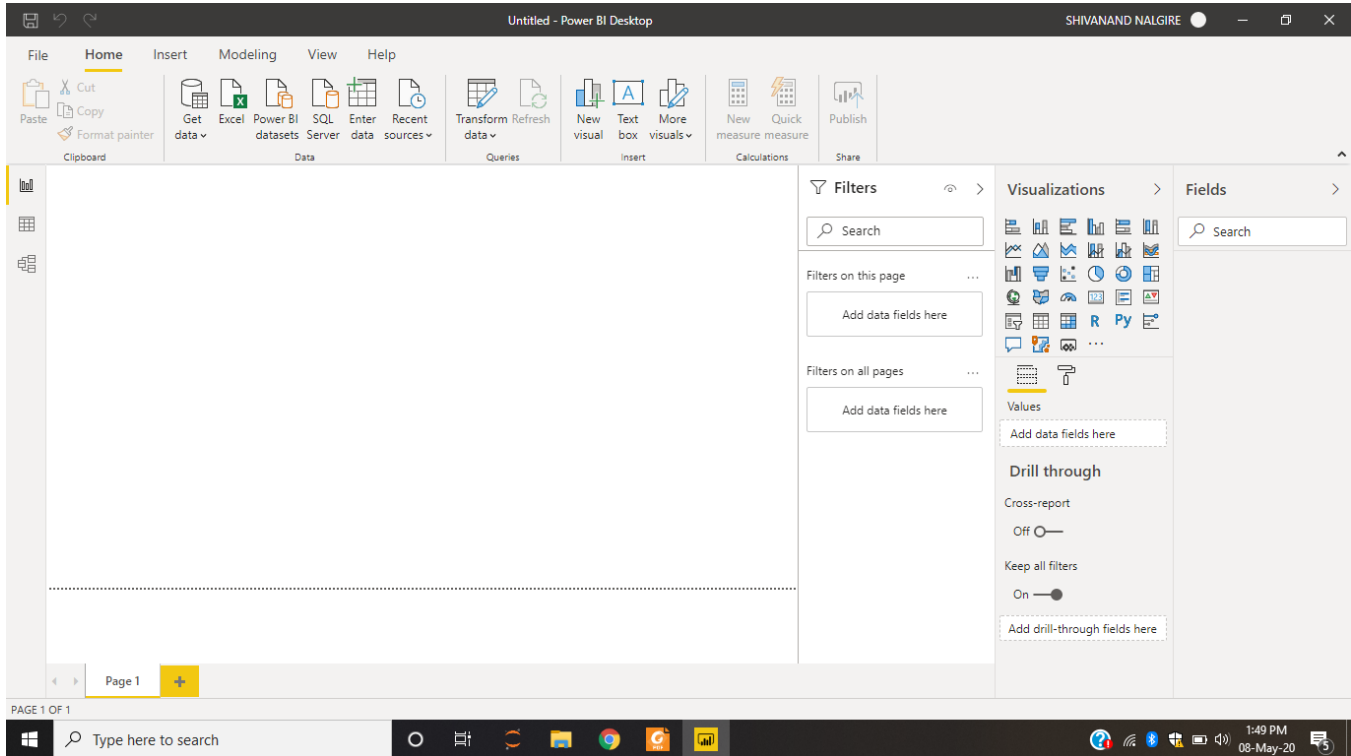


Q.1 Screenshot of the report view page which appears when power desktop starts.

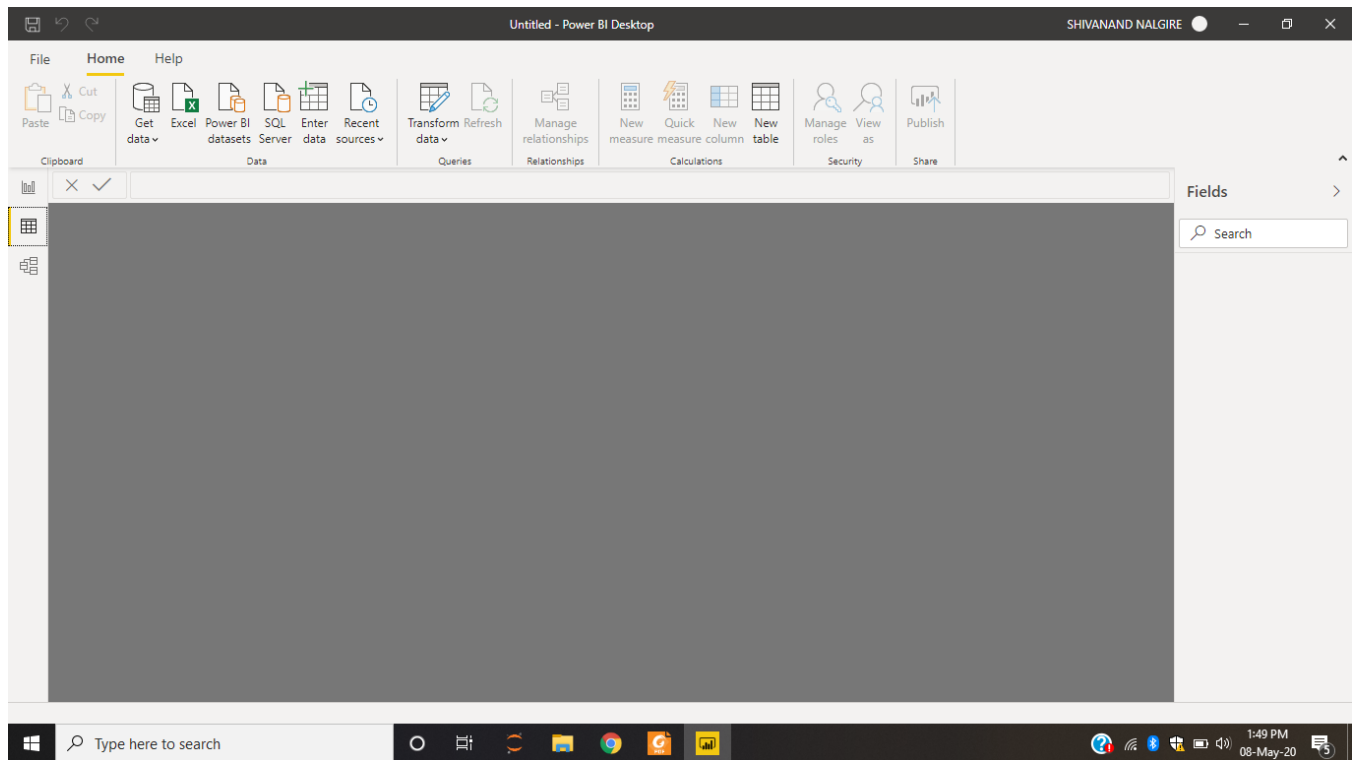


## Q.2 Exploring Power BI

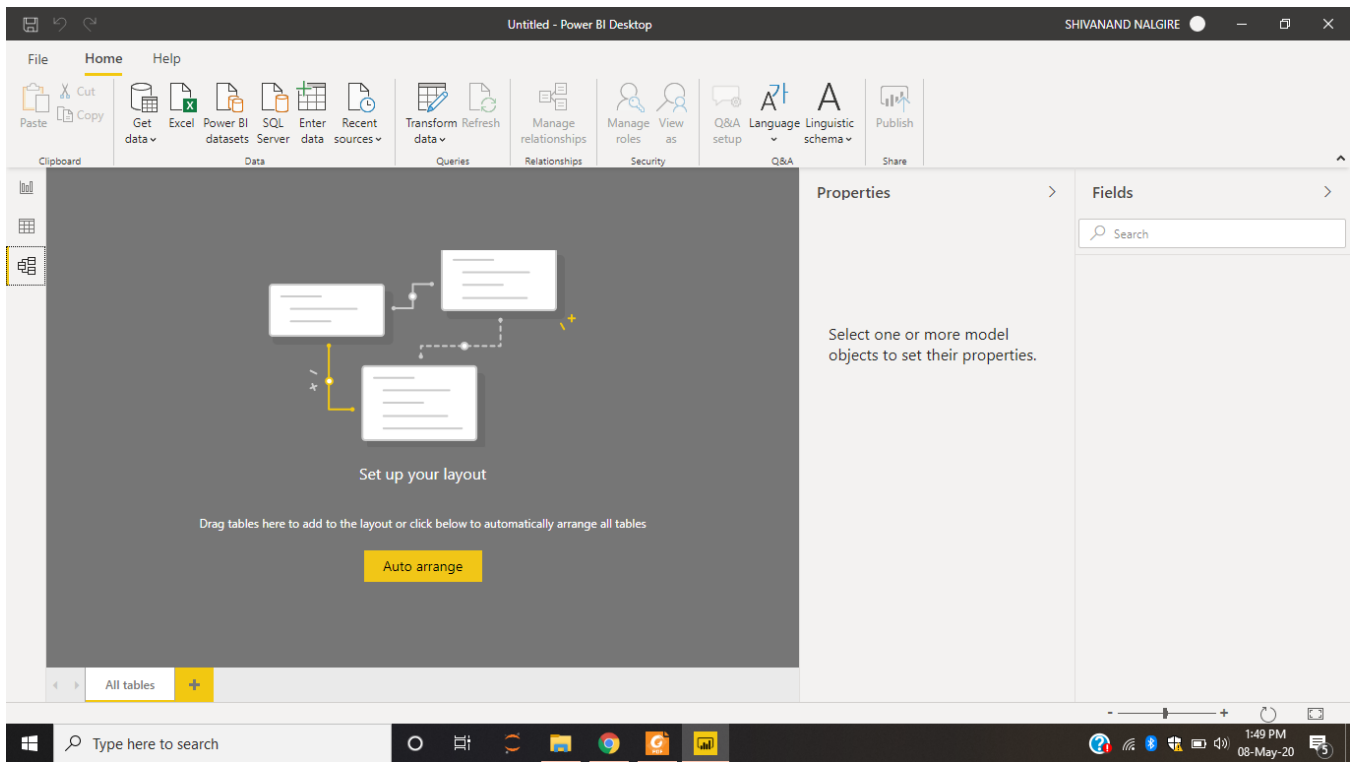
### 2.1 Report View



## 2.2 Data View



## 2.3 Model View



# Power BI Installation



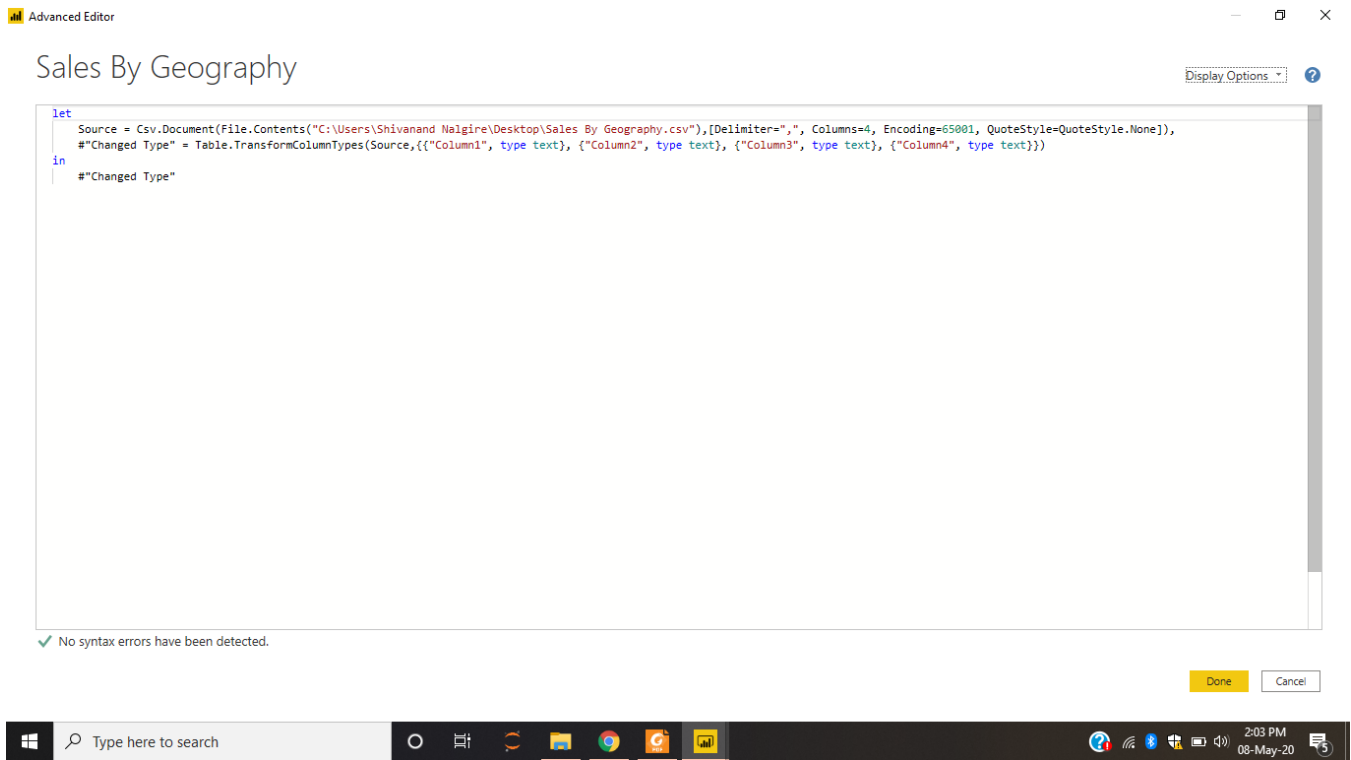
## 2.4 Power Query Editor

The screenshot displays the Power Query Editor window. The ribbon at the top includes tabs for File, Home, Transform, Add Column, View, Tools, and Help. The Transform tab is active, showing options like Merge Queries, Append Queries, Combine Files, and Combine. The main area shows a table with 4 columns and 25 rows. The columns are labeled Column1, Column2, Column3, and Column4. The data in the table is as follows:

	Column1	Column2	Column3	Column4
1				
2				
3	Country	State	City	SalesAmount
4	Australia	New South Wales	Coffs Harbour	235454.9685
5				
6	Australia	New South Wales	Darlinghurst	155010.3774
7	Australia	New South Wales	Goulburn	310875.8978
8				
9	Australia	New South Wales	Lane Cove	220083.5784
10	Australia	New South Wales	Lavender Bay	195122.9001
11				
12	Australia	New South Wales	Malabar	176905.6105
13	Australia	New South Wales	Matraville	216564.4405
14	Australia	New South Wales	Milsons Point	187075.6008
15	Australia	New South Wales	Newcastle	245936.5243
16				
17	Australia	New South Wales	North Ryde	208082.6244
18	Australia	New South Wales	North Sydney	159227.1119
19	Australia	New South Wales	Port Macquarie	278084.4993
20				
21	Australia	New South Wales	Rhodes	200418.56
22	Australia	New South Wales	Silverwater	175222.5111
23	Australia	New South Wales	Springwood	165100.6608
24				
25	Australia	New South Wales	St. Leonards	185423.0829

The right-hand pane shows the Query Settings for 'Sales By Geography'. It includes the Name, All Properties, and Applied Steps (Source, Changed Type). The status bar at the bottom indicates '4 COLUMNS, 295 ROWS' and 'Column profiling based on top 1000 rows'. The system tray shows the time as 2:02 PM on 08-May-20.

## 2.5 Advanced Editor



## Q.3 Details of Power BI – Desktop, Pro and Premium

### 3.1 Power BI Desktop

Power BI Desktop is the free version of Power BI that can be installed local computer as a program, and acts as a companion desktop application to the full version of Power BI. If you need to consolidate your data sources, create your own reports and conduct your own analysis or test it's capabilities, it's the perfect version to start with for all skill levels - whether you're non-IT and want to make your reports more interactive, or analysts seeking richer detail, it's one of the best business analytics tools to use.

#### 3.1.1 Features

1. You can connect and import data from over 70 cloud-based and on-premises sources
2. The same rich visualisations and filters from Power BI Pro
3. Auto-detect that finds and creates data relationships between tables and formats
4. Export your reports to CSV, Microsoft Excel, Microsoft PowerPoint and PDF
5. Python support
6. Save, upload and publish your reports to the Web and the full Power BI service
7. Storage limit of 10 GB per user

To be very clear: All of Power BI's basic features - cleaning and preparing data, connectors to data sources, custom reports, visualisations and exports to Microsoft apps are included in Power BI Desktop. Thus, whatever core functionality or features are available in Power BI Desktop are also standard in the higher-tier, paid versions.

#### 3.1.2 Price

It is Free version of Microsoft Power BI and doesn't cost anything.



## 3.2 Power BI Pro

Power BI Pro is the full version of Power BI, complete with the ability to use Power BI for both building dashboards and reports and unlimited viewing, sharing and consumption of your created reports (and reports shared by others) - the latter not possible with Power BI Desktop.

### 3.2.1 *Additional Features against Power BI Desktop*

1. Ability to embed Power BI visuals into apps (PowerApps, SharePoint, Teams, etc)
2. Native integration with other Microsoft solutions (Azure Data Services)
3. Share datasets, dashboards and reports with other Power BI Pro users
4. Can create App Workspaces and peer-to-peer sharing

Power BI Pro is licensed by individual user. For example, if your organisation has 20 people that need to full capabilities of self-service BI to create dashboards and reports, you need 20 licenses of Power BI Pro, which gives these users full access to creation of reports and unlimited consumption (viewing) of any created content.

If you have a lot of users, Power BI Pro can obviously become quite expensive - but there's a better option if you have more users that need to consume reports than use Power BI for creating reports, which we detail below.

### 3.2.2 *Price*

The Power BI costs \$9.99 per month per user.

## 3.3 Power BI Premium

Power BI Premium is the most expensive tier of Power BI currently available and very distinct from the other two versions available on the market.

### 3.3.1 Additional Features

On top of the features and functionality standard to all versions of the service, users of Power BI Premium get:

1. Increased data capacity limits and maximum performance
2. Access to one API surface
3. Ability to embed Power BI visuals into apps (PowerApps, SharePoint, Teams, etc)
4. Larger storage sizes for extended deployments
5. Geo distribution, higher refresh rates, isolation, pin to memory, read-only replicas
6. Power BI Report Server

Power BI Premium differs from the free version and Power BI pro in its licensing model, which only suits a specific size and type of organisation and business scenario. You can purchase Premium in a range of capacity sizes that offer different numbers of memory and virtual cores that can scale as your data analysis requirements change.

With Power BI Premium, you are licensing capacity for your datasets, dashboards and reports, not just licensing all users of that content. In other words, you're not buying individual licenses, you're buying them in bulk to allow a large number of your users to use Power BI to view reports. All of your content is stored in Premium and can then be viewed by as many users in your organisation as you want, without additional per-user costs.

### 3.3.2 Price

The Power BI Premium with Monthly price per dedicated cloud compute and storage resource with annual subscription costs \$4,995.