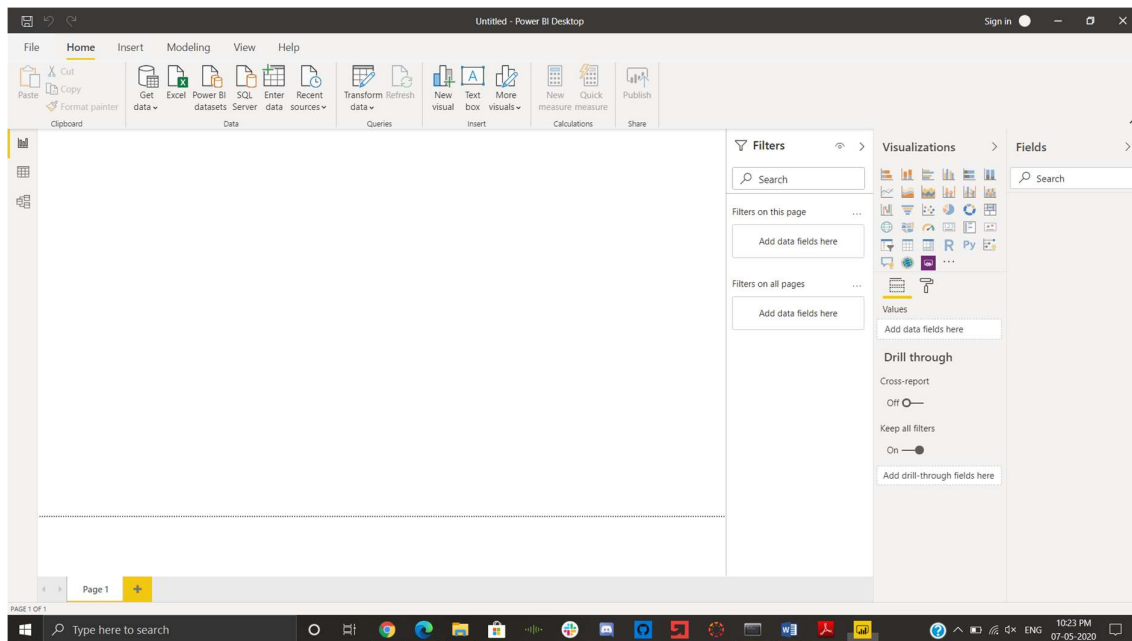
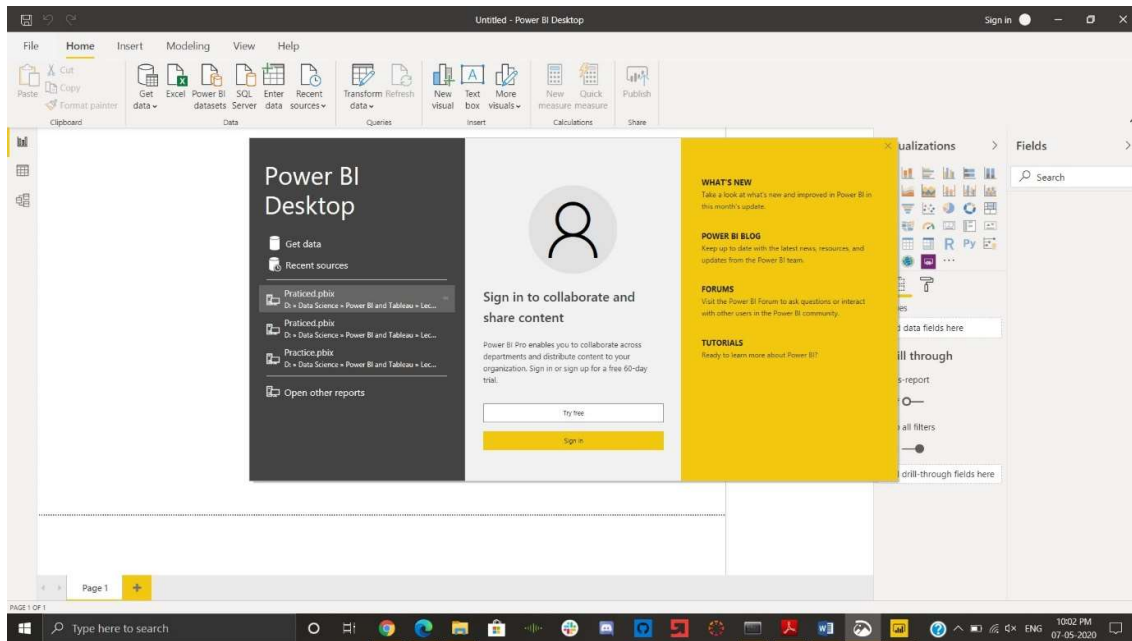


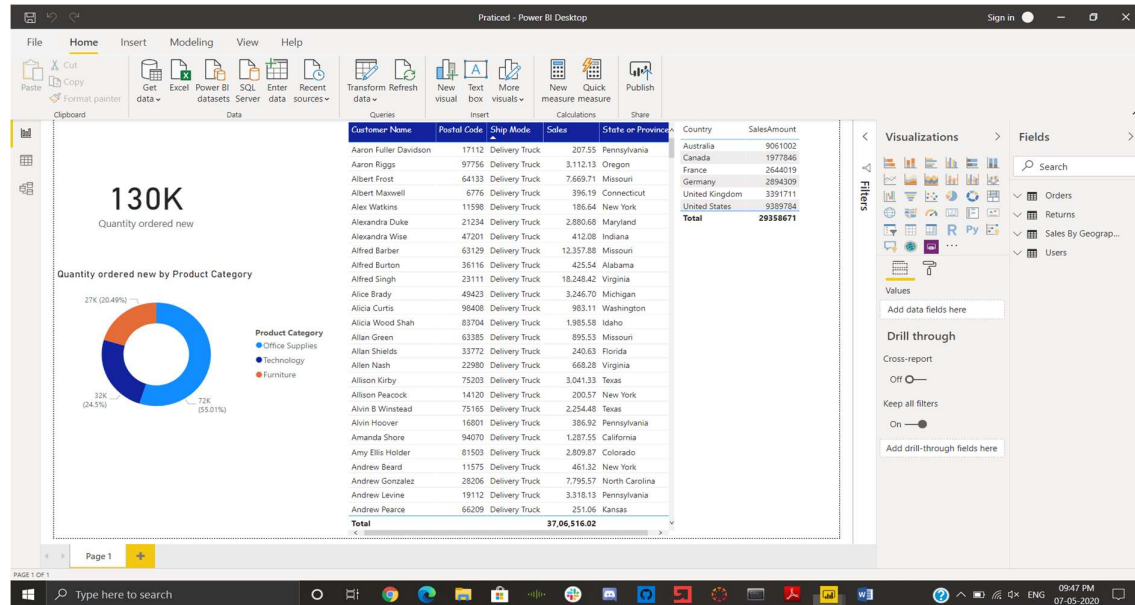
Assignment 1

Task 1:- The final screenshot of the report view page which appears when power desktop starts.



Task 2:- Screenshot of different views in Power BI

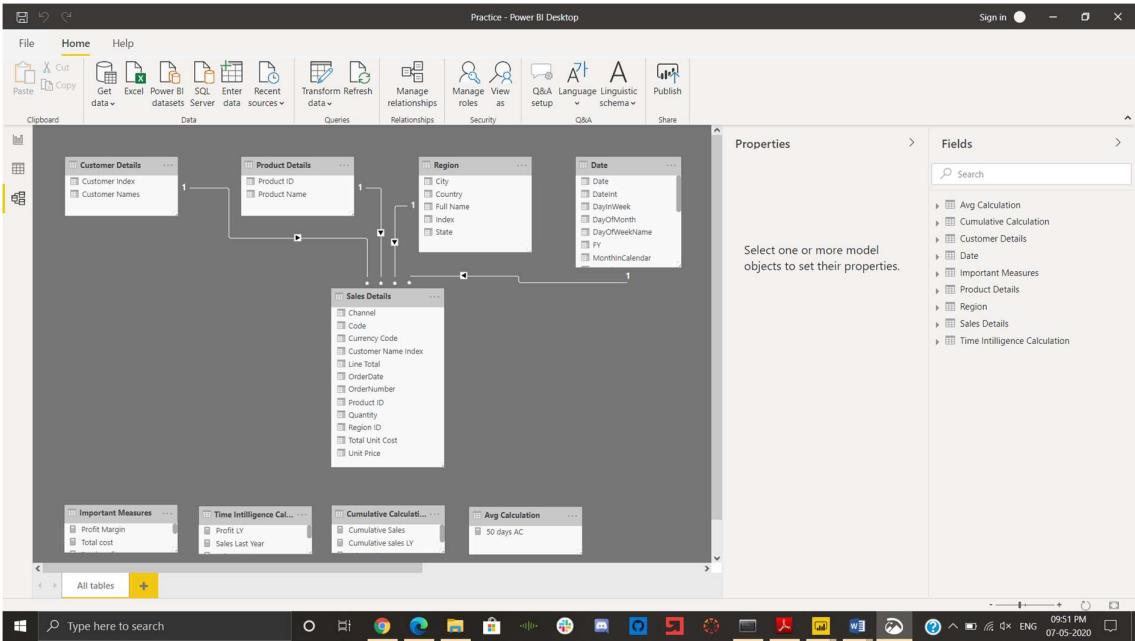
1. Report View



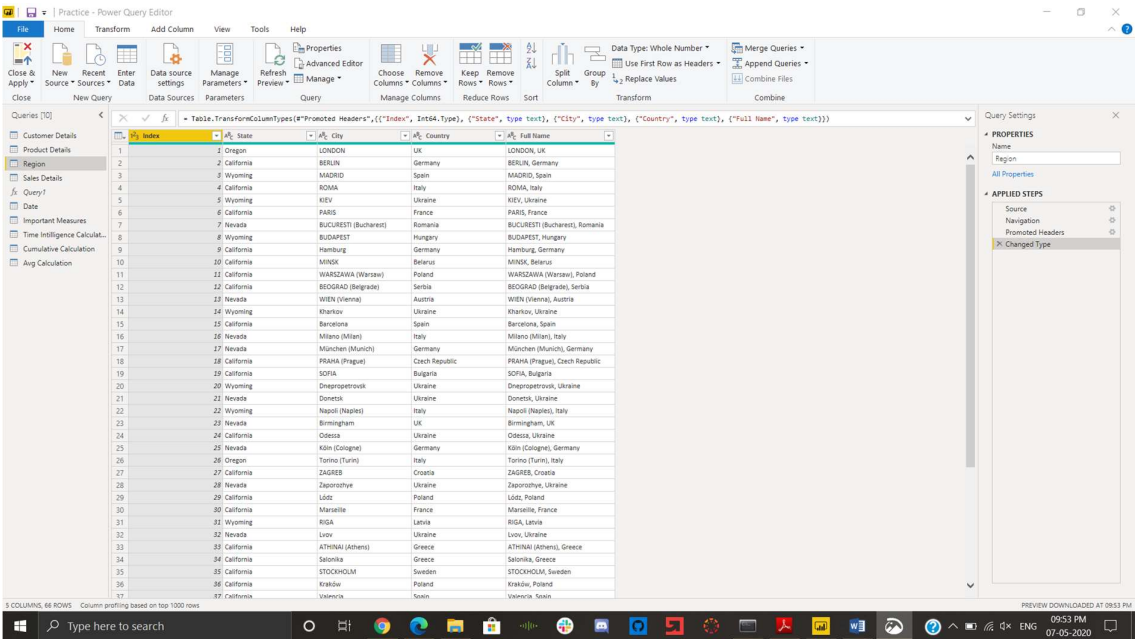
2. Data View

Row ID	Order Priority	Discount	Unit Price	Shipping Cost	Customer ID	Customer Name	Ship Mode	Customer Segment	Product Category	Product Sub-Category	Product Container	Product Name
20384	Low	0.04	6.48	5.74	119	Judy Kennedy	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1994
18129	Low	0.02	6.48	5.9	119	Judy Kennedy	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1976
24273	Not Specified	0.02	6.48	9.17	194	Tammy Goldman	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1996
18904	High	0.06	6.48	6.74	247	Marshall Brandt Briggs	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 215
19823	Medium	0.08	6.48	7.03	266	Ross Frederick	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 214
24425	Low	0.06	6.48	7.86	300	Larry W Lehman	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 213
24864	Medium	0.01	6.48	7.49	358	Chris F Brandt	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 220
24662	Low	0.08	6.48	7.91	500	Brenda Cowan	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 216
18591	High	0	6.48	7.86	523	Jamie Dixon	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 213
20281	Medium	0.05	6.48	6.57	537	Nelson Coley	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 20
21274	Medium	0.06	6.48	7.37	600	Vickie Monroe	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 210
113	Not Specified	0.08	6.48	5.14	607	Clara Hauser	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 23
5575	Medium	0.1	6.48	9.17	607	Clara Hauser	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1996
18113	Not Specified	0.08	6.48	5.14	608	Daniel Jones	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 23
24575	Medium	0.1	6.48	9.17	609	Shawn Adler	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1996
23207	Low	0.1	6.48	9.54	680	Laurence Poe	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1905
23208	Low	0.02	6.48	5.19	680	Laurence Poe	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1995
22735	Low	0	6.48	8.19	719	Stephen Lam	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 217
24851	Low	0.09	6.48	6.86	797	Eileen Riddle	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 204
24763	Critical	0.06	6.48	8.88	868	Sharon Ellis	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 224
2055	Critical	0.02	6.48	6.41	894	Gail Rankin Cole	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 221
7955	High	0.09	6.48	7.03	894	Gail Rankin Cole	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 214
25955	High	0.09	6.48	7.03	895	Gordon Sutherland	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 214
20055	Critical	0.02	6.48	6.41	896	Jennifer Siegel	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 221
19855	Low	0.09	6.48	8.88	1088	Jeremy Orr	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 224
26163	High	0.02	6.48	9.54	1090	Seth Davies	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1905
23447	High	0.04	6.48	6.6	1113	Julia Reynolds	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 21

3. Model View



4. Power Query Editor



5. Advance Editor

Practised - Power Query Editor

Home Transform Add Column View Tools

Close & Apply New Source Recent Sources Enter Data Data source settings Manage Parameters Refresh Advanced Editor

Queries (4) < fx Table.TransformColumnNames

Country State1

1 Australia New
2 Australia New
3 Australia New
4 Australia New
5 Australia New
6 Australia New
7 Australia New
8 Australia New
9 Australia New
10 Australia New
11 Australia New
12 Australia New
13 Australia New
14 Australia New
15 Australia New
16 Australia New
17 Australia New
18 Australia New
19 Australia Queensland
20 Australia Queensland
21 Australia Queensland
22 Australia Queensland
23 Australia Queensland
24 Australia Queensland
25 Australia Queensland
26 Australia Queensland
27 Australia South
28 Australia South
29 Australia South
30 Australia Tasmania
31 Australia Victoria
32 Australia Victoria
33 Australia Victoria
34 Australia Victoria
35 Australia Victoria
36 Australia Victoria
37 Australia Victoria
38 Australia Victoria

Sales by Geography

let
Source = Csv.Document(File.Contents("D:\Data Science\Power BI and Tableau\Lecture 11 (20-April)\Sales by Geography.csv"),Delimiter=";",C
#Changed Type = Table.TransformColumnTypes(Source,{{"Column1", type text}, {"Column2", type text}, {"Column3", type text}, {"Column4",
#Removed Top Rows = Table.Skip(#"Changed Type"),
#Removed Blank Rows = Table.SelectRows(#"Removed Top Rows", each not List.IsEmpty(List.RemoveMatchingItems(Record.FieldValues(_),{"
#Promoted Headers = Table.PromoteHeaders(#"Removed Blank Rows", [PromotedHeaderNames]),
#Changed Type1 = Table.TransformColumnTypes(#"Promoted Headers",{{"Country", type text}, {"State", type text}, {"City", type text}, {"S
#Split Column by Delimiter = Table.SplitColumn(#"Changed Type1", "State", Splitter.SplitTextByDelimiter(" ", QuoteStyle.Csv), {"State.1
#Changed Type2 = Table.TransformColumnTypes(#"Split Column by Delimiter",{{"State.1", type text}, {"State.2", type text}, {"State.3", t
in
#Changed Type2"

✓ No syntax errors have been detected.

Done Cancel

Query Settings

PROPERTIES

Name

Sales by Geography

All Properties

APPLIED STEPS

Source

Changed Type

Removed Top Rows

Removed Blank Rows

Promoted Headers

Changed Type1

Split Column by Delimiter

Changed Type2

PREVIEW DOWNLOADED AT 08:58 PM

06/04/2020, 285 ROWS Column profiling based on top 1000 rows

Type here to search

09:56 PM 07-05-2020

Task 3:- *Details of the following along with their price*

1. Power BI Desktop
2. Power BI Pro
3. Power BI Premium

1. Power BI Desktop

Power BI Desktop is the **free version of Power BI** that you can install on your 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 its 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.

*Despite its **free** nature, you may be surprised at what Microsoft has included with Power BI Desktop:-*

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

Naturally, there are some feature limitations with the free Power BI Desktop that give further incentive to upgrade.

- Can't share created reports with non-Power BI Pro users
- No App Workspaces
- No API embedding
- No email subscriptions
- No peer-to-peer-sharing
- No support to analyse in Excel within Power BI Desktop

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.

2. Power BI Pro

Subscription price: - **\$9.99 monthly price per user**

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.

A breakdown of Power BI Pro's differences against Power BI Desktop:-

- Ability to embed Power BI visuals into apps (PowerApps, SharePoint, Teams, etc)
- Native integration with other Microsoft solutions (Azure Data Services)
- Share datasets, dashboards and reports with other Power BI Pro users
- 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.

3. Power BI Premium

Subscription price: - **\$4,995 monthly price per dedicated cloud** compute and storage resource with annual subscription

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.

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

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