

Custom Bootcamp week 3

11-09-2023 – 15-09-2023

11-09-2023

- Azure synapse analytics
- Azure synapse analytics feature helps us to integrate, transform the data.
- Azure synapse service provides the functionality of data factory and storage capability
- In azure synapse analytics there are 2 pools available
 - 1. sql pool
 - 2. spark pool
- Sql pool is of 2 type
 - 1. serverless
- Serverless pool is used to view the data. We can't create any table in the server less pool. But we can create the view over the data.

12-09-2023

- The serverless model calculate the cost based on the data processed. Hence serverless will be used to provide the data to the power bi and any other analytical tools.
- 2. dedicated pool
- Dedicated pool will cost more than the serverless because the dedicated pool means servers will be allocated to us even if we don't use it.
- Server will be running 24*7
- Dedicated pool allows us to create the table and index.

- Spark pool
- Spark pool will be used to process the data in the distributed manner.

12-09-2023

The screenshot shows a Microsoft Azure Resource Group named "RG_shellresource". The page displays two resources: "gen2account001" (Storage account) and "shellsynapse001" (Synapse workspace), both located in the East US region.

Name	Type	Location
gen2account001	Storage account	East US
shellsynapse001	Synapse workspace	East US

Below the table, there are filter options and a list view button. The left sidebar includes sections for Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Deployments, Security, Deployment stacks, Policies, and Properties.

12-09-2023

The screenshot shows a Microsoft Azure Synapse Analytics workspace. On the left, the Data blade displays a 'Linked' section with an 'inputfilecontainer' selected. The main area shows a SQL script window with the following code:

```
1 -- This is auto-generated code
2
3 SELECT
4     sum(cast(lat as int)) as total
5     FROM
6         OPENROWSET(
7             BULK 'https://gen2account001.dfs.core.windows.net/inputfilecontainer/zipcodes.csv',
8             FORMAT = 'CSV',
9             PARSE_DATE = '2022-01-01',
10            HEADER_ROW=TRUE'
```

The 'Results' tab is selected, showing the output:

total
588

A message at the bottom indicates: **00:00:02 Query executed successfully.**

The browser tabs include 'Subscription Details', 'i-05958306142208f38', 'lumen login - Search', 'Lumen', 'notepad.pw / idashell', and 'Applications - New Tab - Google Chrome'. The system tray at the bottom shows the date as 9/12/2023 and the time as 11:48 AM.

12-09-2023

The screenshot shows a Microsoft Azure Synapse Analytics workspace interface. On the left, there's a sidebar with icons for Home, Datasets, Pipelines, and Dataflows. The main area is titled "Data" and shows a "Workspace" section with a "SQL database" node expanded, containing "External tables", "External resources", "External data sources", "External file formats", "Views", "dbo.v1", "System views", "Schemas", and "Security". A "Validate all" button is visible above the workspace list. In the center, there are two tabs: "inputfilecontainer" and "SQL script 1". The "SQL script 1" tab contains the following T-SQL code:

```
1
2
3  create view v1 as
4  -- This is auto-generated code
5  SELECT
6  sum(cast(lat as int)) as total
7  FROM
8  OPENROWSET(
9    BULK 'https://gen2account001.dfs.core.windows.net/inputfilecontainer/zipcodes.csv',
10   FORMAT = 'CSV',
11   PARSE_TYPE = '2.0',
12   HEADER_ROW=TRUE
13   ) AS [result]
14
15
16
```

Below the code, the status bar indicates "00:00:01 Query executed successfully." The bottom right corner of the screen shows the Windows taskbar with the date and time as "12:19 PM 9/12/2023".

12-09-2023

The screenshot shows a Microsoft Azure Synapse Analytics workspace interface. On the left, the Data workspace navigation pane is visible, displaying options like Workspace, Security, and Roles. The main area shows a SQL script editor with the following content:

```
1
2
3
4
5  create user sush from login sush
6
7
```

The 'Results' tab is selected, showing the message "No results to show" and the note "Your query yielded no displayable results". At the bottom of the results pane, it says "00:00:01 Query executed successfully." The status bar at the bottom of the browser window shows the date and time as "Tue 12 Sep, 07:59 labuser".

12-09-2023

The screenshot shows a Microsoft Azure Synapse Analytics interface for managing Apache Spark pools. The left sidebar lists various service categories: Synapse live, Analytics pools, SQL pools, Apache Spark pools (selected), Data Explorer pools (previous), External connections, Linked services, Microsoft Purview, Integration, Triggers, Integration runtimes, Security, Access control, and Credentials. The main content area is titled "Apache Spark pool" and describes how it can be tuned to run different kinds of Apache Spark workloads. It includes a "New" button and a "Refresh" button. A table displays one item: "shellspark001", which is a "Memory Optimized" pool with a "Small (4 vCores / 32 GB) - 3 nodes" size. The top navigation bar shows multiple browser tabs and the date/timestamp "Tue 12 Sep, 09:45 labuser". The bottom taskbar includes icons for search, file explorer, and other system functions.

Name	Node size family	Size
shellspark001	Memory Optimized	Small (4 vCores / 32 GB) - 3 nodes

12-09-2023

The screenshot shows the Microsoft Azure Synapse Analytics Notebook interface. The notebook is titled "Synapse live" and contains three scripts: "inputfilecontainer", "SQL script 1", and "Notebook 1". The "Notebook 1" tab is active, showing the following PySpark code:

```
1 print("hello world")
```

[1] ✓ 3 min 37 sec - Apache Spark session started in 3 min 37 sec 55 ms. Command executed in 174 ms by Shellunext_169342231860 on 9:49:02 AM, 9/12/23

hello world

```
1 df = spark.read.csv("abfss://inputfilecontainer@gen2account001.dfs.core.windows.net/zipcodes.csv",inferSchema=True)
```

[2] ✓ 25 sec - Command executed in 25 sec 362 ms by Shellunext_169342231860 on 9:55:44 AM, 9/12/23

> Job execution Succeeded Spark 2 executors 8 cores

View in monitoring Open Spark UI

```
1 display(df)
```

[4] ✓ 17 sec - Command executed in 16 sec 885 ms by Shellunext_169342231860 on 9:56:47 AM, 9/12/23

> Job execution Succeeded Spark 2 executors 8 cores

View in monitoring Open Spark UI

The status bar at the bottom indicates the weather as "86°F Partly sunny" and the system time as "3:27 PM 9/12/2023".

12-09-2023

The screenshot shows the Microsoft Azure Synapse Analytics Notebook interface. The top navigation bar includes tabs for 'Subscription Details', 'i-05958306142208f38', 'lumen login - Search', 'Lumen', 'New tab', and a '+' button. The main header displays 'Microsoft Azure | Synapse Analytics' and the user's email 'Shellunext_169342231860@npunext.onmicrosoft.com'.

The notebook interface has a left sidebar with icons for Home, Databases, Tables, Functions, Pipelines, and Jobs. The main area shows a 'Notebook 1' tab selected. The code editor contains two commands:

```
1 df = spark.read.csv("abfss://inputfilecontainer@gen2account001.dfs.core.windows.net/zipcodes.csv",inferSchema=True)
[2] ✓ 25 sec - Command executed in 25 sec 362 ms by Shellunext_169342231860 on 9:55:44 AM, 9/12/23
> Job execution Succeeded Spark 2 executors 8 cores
```

[View in monitoring](#) [Open Spark UI](#)

...
[4] ✓ 17 sec - Command executed in 16 sec 885 ms by Shellunext_169342231860 on 9:56:47 AM, 9/12/23
> Job execution Succeeded Spark 2 executors 8 cores

[View in monitoring](#) [Open Spark UI](#)

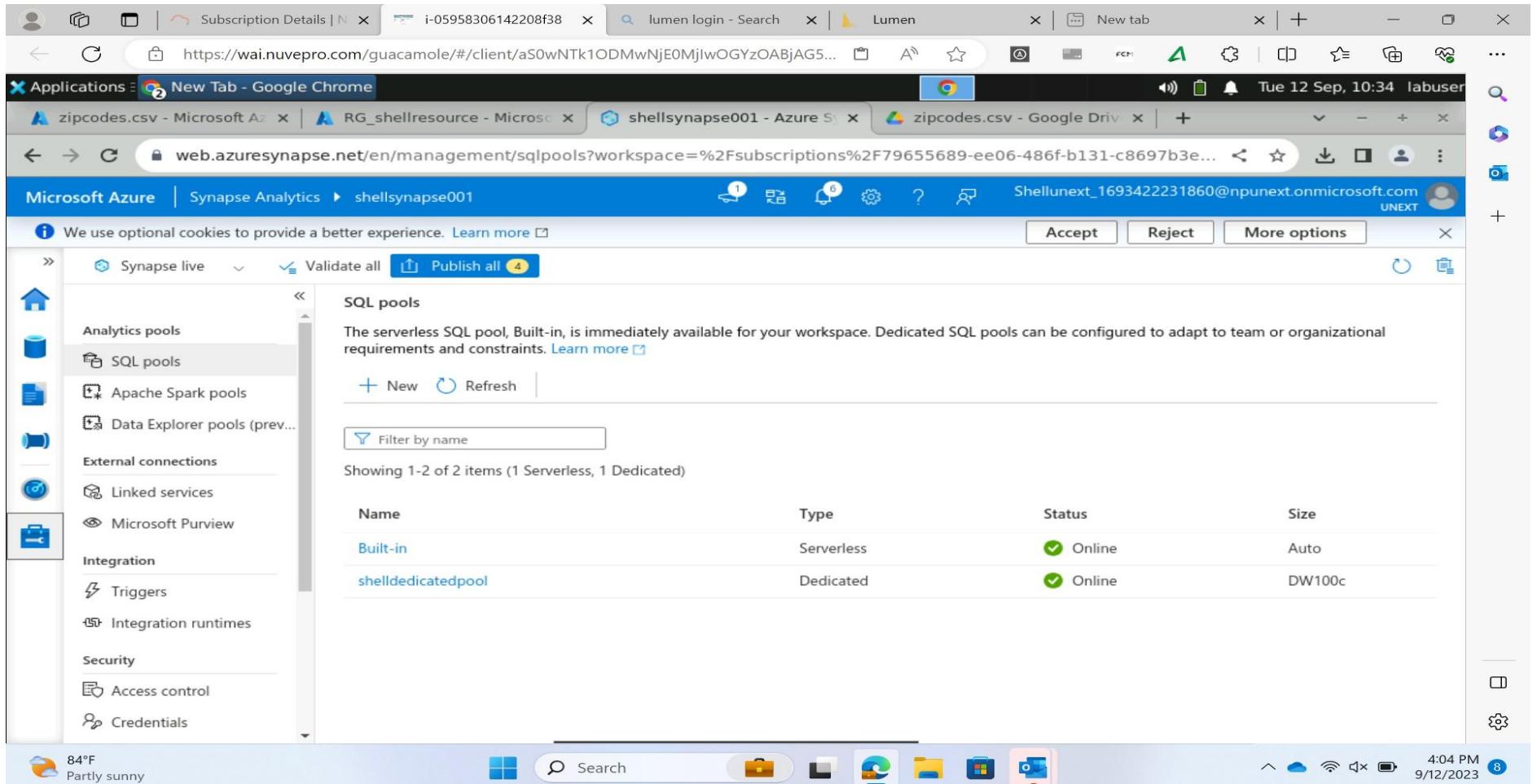
The results section shows the output of the second command:

View [Table](#) [Chart](#) [Export results](#)

_c0	_c1	_c2	_c3	_c4
RecordNumber	Zipcode	ZipCodeType	City	State
1	704	STANDARD	PARC PARQUE	PR

At the bottom, the taskbar shows the weather (86°F, Partly sunny), search, and various system icons.

12-09-2023



A screenshot of a Microsoft Azure Synapse Analytics workspace titled "shellsynapse001". The left sidebar shows navigation options like "Analytics pools", "SQL pools", and "Integration". The main content area displays "SQL pools" with two items listed:

Name	Type	Status	Size
Built-in	Serverless	Online	Auto
shelldedicatedpool	Dedicated	Online	DW100c

The browser tabs at the top show "Subscription Details", "i-05958306142208f38", "lumen login - Search", "Lumen", and "New tab". The status bar at the bottom shows "84°F Partly sunny", "4:04 PM 9/12/2023", and a battery icon.

12-09-2023

The screenshot shows a Microsoft Azure Synapse Analytics workspace interface. The top navigation bar includes tabs for 'Subscription Details', 'i-05958306142208f38', 'lumen login - Search', 'Lumen', and 'New tab'. The main title bar says 'Applications New Tab - Google Chrome' and displays the URL 'https://wai.nuvepro.com/guacamole/#/client/a50wNTk1ODMwNjE0MjlwOGYzOABjAG5...'. The browser toolbar shows various icons and the date 'Tue 12 Sep, 10:35 labuser'. The Azure Synapse Analytics interface has a blue header with 'Microsoft Azure | Synapse Analytics > sh'. Below the header, a message about optional cookies is shown with 'Accept', 'Reject', and 'More options' buttons. The main area contains a code editor with a SQL script for creating a table 'dbo.zipcode'. The script includes conditions for table creation and column definitions. To the right of the code editor is a 'Results' pane showing a table with two rows of data. The table has columns: RecordNumber, Zipcode, ZipCodeType, City, State, LocationType, Lat, Long, and Xaxis. The data is as follows:

RecordNumber	Zipcode	ZipCodeType	City	State	LocationType	Lat	Long	Xaxis
3	704	STANDARD	SECT LANAUSSE	PR	NOT ACCEPTA...	17.96	-66.22	0.38
49348	34487	PO BOX	HOMOSASSA	FL	PRIMARY	28.78	-82.61	0.11

At the bottom of the results pane, a message says '00:00:12 Query executed successfully.' The bottom of the screen shows a taskbar with icons for weather (84°F Partly sunny), search, file, and other system functions, along with the date '9/12/2023' and time '4:05 PM'.

12-09-2023

The screenshot shows a Microsoft Azure Synapse Analytics workspace interface. On the left, there's a sidebar with icons for Home, Data, Machine Learning, and Security. The 'Data' section is selected, showing a 'Workspace' tab and a 'Linked' tab. Below these are sections for 'SQL database', 'shelldedicatedpool (SQL)', and other database objects like Tables, External tables, Views, Programmability, Schemas, and Security.

In the main area, there are three tabs at the top: 'SQL script 1', 'SQL script 2', and 'Notebook 1'. The 'SQL script 1' tab is active, displaying the following SQL code:

```
1 create table shelltable(id int , name varchar(20))
2
3 insert into shelltable values(1,'sushant')
4
5 select * from shelltable
```

Below the code, under the 'Results' tab, is a table showing the results of the query:

id	name
1	sushant

A message at the bottom of the results pane says '00:00:01 Query executed successfully.'

At the bottom of the screen, the taskbar shows the date and time as '9/12/2023 4:15 PM'.

13-09-2023

- Power BI is used to visualize the data.
- Power BI can pull the data from multiple data sources.
- Using the power query we can transform the data within the power BI environment itself.
- Power bi provides the dax functions to apply transformation over the data.

13-09-2023

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply ▾ New Source ▾ Recent Sources ▾ Enter Data Data source settings Manage Parameters ▾ Refresh Preview ▾ Advanced Editor Properties Choose Columns ▾ Remove Columns ▾ Reduce Rows ▾ Sort Split Column ▾ Group By Data Type: Decimal Number ▾ Use First Row as Headers ▾ Manage Columns Manage Rows ▾ Sort ▾ Replace Values Transform

Combine ▾ Text Analytics Vision Azure Machine Learning AI Insights

Queries [1]

Sheet1

= Table.Group(#"Filtered Rows", {"Country"}, {"countrysales", each List.Sum([# Sales]), type

A	B	C
1	Canada	24887654.88
2	France	24354172.28
3	Germany	23505340.82
4	Mexico	20949352.11
5	United States of America	25029830.17

Query Settings

PROPERTIES

Name: Sheet1

All Properties

APPLIED STEPS

- Source
- Navigation
- Promoted Headers
- Changed Type
- Removed Other Columns
- Sorted Rows
- Split Column by Delimiter
- Changed Type1
- Filtered Rows
- Grouped Rows

2 COLUMNS, 5 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:16 AM

11:30 AM 9/13/2023

13-09-2023

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

New Source Recent Sources Enter Data Data source settings Manage Parameters Refresh Preview Advanced Editor Properties Choose Columns Remove Columns Reduce Rows Sort Split Column Group By Use First Row as Headers Replace Values Data Type: Decimal Number Combine Text Analytics Vision Azure Machine Learning AI Insights

Queries [1]

Sheet1

= Table.Sort(#"Added Custom",{{"Sales", Order.Descending}})

	1.2 Sales	1.2 COGS	1.2 Profit	1.2 Date.1	1.2 Date.2
1	1159200	897000	262200	7	
2	1038082.5	950625	87457.5	4	
3	1035625.5	948375	87250.5	7	
4	1017338	771160	246178	10	
5	1017338	771160	246178	10	
6	986811	748020	238791	10	
7	986811	748020	238791	10	
8	978236	741520	236716	12	
9	978236	741520	236716	12	
10	962500	715000	247500	2	
11	936138	747760	188378	9	
12	922680	873750	48930	1	
13	884205	729820	154385	8	
14	862785	726250	136535	11	
15	848172.5	741260	106912.5	5	
16	840384	729500	110884	5	
17	827604	711000	116604	2	
18	808110	748250	59860	3	
19	801444	684320	117124	6	
20	801444	684320	117124	6	
21	769814.5	628420	141394.5	1	
22	766413	686750	79663	2	
23	750537	702750	47787	7	
24	746707.5	560300	186407.5	12	
25					

19 COLUMNS, 700 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:16 AM 11:33 AM 9/13/2023



13-09-2023

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Column From Examples Custom Invoke Custom Function Conditional Column Index Column Duplicate Column Merge Columns ABC Extract Format abc Parse Statistics Standard Scientific 10² Trigonometry Rounding Information Date Time Duration Text Analytics Vision Azure Machine Learning AI Insights

Queries [1]

Sheet1

= Table.AddColumn(#"Sorted Rows1", "column2", each [Segment] & " " & [Country])

Index	Month Name	Year	ABC column1	ABC column2
1	July	2014	1421400	Government United States of America
2	April	2014	1125540	Small Business Canada
3	July	2014	1122876	Small Business Canada
4	October	2013	1263516	Government Germany
5	October	2013	1263516	Government Germany
6	October	2014	1225602	Government Germany
7	October	2014	1225602	Government Germany
8	December	2014	1214952	Government Canada
9	December	2014	1214952	Government Canada
10	February	2014	1210000	Government France
11	September	2014	1124516	Government France
12	January	2014	971610	Small Business United States of America
13	August	2014	1038590	Government United States of America
14	November	2014	999320	Small Business United States of America
15	May	2014	955085	Government Mexico
16	May	2014	951268	Small Business United States of America
17	February	2014	944208	Small Business United States of America
18	March	2014	867970	Small Business United States of America
19	June	2014	918568	Government Canada
20	June	2014	918568	Government Canada
21	January	2014	911209	Government Mexico
22	February	2014	846076	Small Business Mexico
23	July	2014	798324	Small Business Germany
24	December	2014	933115	Government France
25				

20 COLUMNS, 700 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:16 AM 11:35 AM 9/13/2023

Properties

Name: Sheet1

All Properties

Applied Steps

- Source
- Navigation
- Promoted Headers
- Changed Type
- Removed Other Columns
- Sorted Rows
- Split Column by Delimiter
- Changed Type1
- Filtered Rows
- Added Custom
- Sorted Rows1
- Added Custom1

13-09-2023

Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Column From Examples | Custom Column | Invoke Custom Function | Duplicate Column | General

Conditional Column | Index Column | Merge Columns | Format | Extract | Parse | Statistics | Standard | Scientific | Trigonometry | Rounding | Information | Date | Time | Duration | Text Analytics | Vision | Azure Machine Learning | AI Insights

Queries [2]

financials

Sheet1

= Table.AddColumn(#"Renamed Columns", "column2", each if [Country] = "Canada" then "CND" else if

	year1	Month Number	Month Name	Year	column2
1	2014	1	January	2014	CND
2	2014	1	January	2014	Germany
3	2014	6	June	2014	FRNC
4	2014	6	June	2014	Germany
5	2014	6	June	2014	Mexico
6	2014	12	December	2014	Germany
7	2014	3	March	2014	Germany
8	2014	6	June	2014	CND
9	2014	6	June	2014	FRNC
10	2014	6	June	2014	Germany
11	2014	6	June	2014	Mexico
12	2014	7	July	2014	CND
13	2014	8	August	2014	Mexico
14	2014	9	September	2014	Germany
15	2013	10	October	2013	CND
16	2014	12	December	2014	United States of America
17	2014	2	February	2014	CND
18	2014	2	February	2014	Mexico
19	2014	6	June	2014	CND
20	2014	6	June	2014	Germany
21	2014	7	July	2014	Germany
22	2014	8	August	2014	Mexico
23	2013	9	September	2013	FRNC
24	2013	9	September	2013	Mexico
25					

19 COLUMNS, 700 ROWS Column profiling based on top 1000 rows

Query Settings

Properties

Name: Sheet1

All Properties

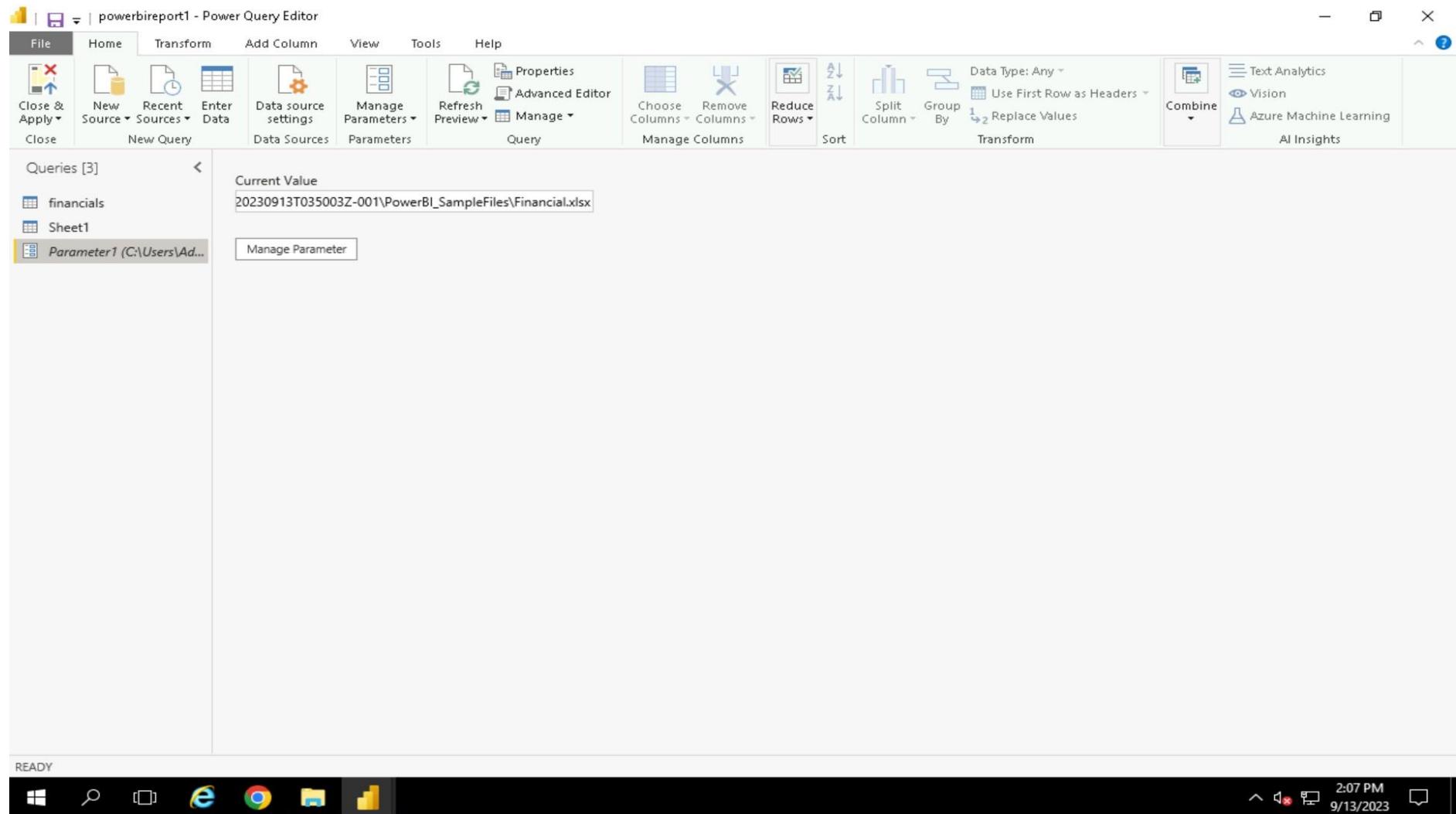
Applied Steps

Source | Navigation | Promoted Headers | Changed Type | Split Column by Delimiter | Changed Type1 | Renamed Columns | Added Conditional Column

PREVIEW DOWNLOADED AT 11:16 AM

11:49 AM 9/13/2023

13-09-2023



13-09-2023

powerbireport1 - Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply New Source Advanced Editor Properties Data Type: Text Use First Row as Headers Text Analytics Vision Machine Learning Insights

Advanced Editor

financials

Parameter1 = "C:\Users\Administrator\Downloads\PowerBI_SampleFiles-20230913T035003Z-001\PowerBI_SampleFiles\Financial.xlsx" meta [IsParameterQuery=true, Type="Text", IsParameterQueryRequired=true]

let
Source = Excel.Workbook(File.Contents(Parameter1), null, true),
financials_Table = Source{[Item="financials",Kind="Table"]}[Data],
#"Changed Type" = Table.TransformColumnTypes(financials_Table,{{"Segment", type text}, {"Country", type text}, {"Product", type text}, {"D", type text}}),
#"Added Index" = Table.AddIndexColumn(#"Changed Type", "Index", 0, 1, Int64.Type)
in
#"Added Index"

No syntax errors have been detected.

Done Cancel

✓

	Segment	Country	Paseo	None				
22	Government	MEXICO	Paseo	None				
23	Midmarket	France	Paseo	None				
24	Small Business	Mexico	Paseo	None				
25	<							

17 COLUMNS, 700 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:16 AM 2:07 PM 9/13/2023



13-09-2023

powerbireport1 - Power BI Desktop

File Home Insert Modeling View Help Format Data / Drill

Cut Copy Paste Format painter Get data workbook hub Data Server Enter data Dataverse Recent sources Transform Refresh data New visual Text box More visuals Insert New measure Quick measure Calculations Sensitivity Publish Share

Sales report

Sum of Profit by Year

Sum of Profit and Sum of Sale Price by Country

Filters

Search: is Canada or France

Filter type: Basic filtering

Select all

Canada 140

France 140

Germany 140

Mexico 140

United States of A... 140

Require single selection

Add data fields here

Filters on all pages

Add data fields here

Fields

Search: financials

Sheet1

- \sum Sales
- \sum COGS
- column2
- column3
- Country
- \sum day
- Discount Band
- \sum Discounts
- \sum Gross Sales
- \sum Manufacturing ...
- \sum month
- Month Name
- \sum Month Number
- Product
- \sum Profit
- \sum Sale Price
- Segment
- \sum Units Sold

Page 1 of 1

2:40 PM 9/13/2023

13-09-2023

powerbireport1 - Power BI Desktop

File Home Insert Modeling View Help

Paste Cut Copy Format painter Get data workbook hub Data SQL Server Enter data Dataverse Recent sources Transform Refresh data New visual Text box More visuals Insert New measure Quick measure Calculations Sensitivity Publish Share

Sales report

Sum of Profit and Sum of Sale Price by Country

Country	Value	Percentage
Canada	3.53M	48.28%
France	3.78M	51.72%

Country
Select all
Canada
France
Germany
Mexico
United States of Amer...

Filters

Visualizations

Build visual

Fields

Search

financials

Sheet1

- \sum Sales
- COGS
- column2
- column3
- Country
- \sum day
- Discount Band
- \sum Discounts
- \sum Gross Sales
- \sum Manufacturing ...
- \sum month
- Month Name
- \sum Month Number
- Product
- \sum Profit
- \sum Sale Price
- Segment
- \sum Units Sold

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

Page1

Page 1 of 1

66% Update available (click to download)

2:50 PM 9/13/2023

13-09-2023

powerbireport1 - Power BI Desktop

File Home Insert Modeling View Help

Paste Cut Copy Format painter Clipboard Get data Excel Data SQL Server Enter data Dataverse Recent sources Transform data New visual Text box More visuals Insert New measure Quick measure Calculations Sensitivity Publish Share

Sales report

Sum of Profit and Sum of Sale Price by Country

Germany 0.96M (31.8%) France 1.08M (35.64%) Canada 0.99M (32.56%)

Monthwise sales

Country

- Select all
- Canada
- France
- Germany
- Mexico
- United States of Amer...

Visualizations

Filters

Fields

Search

Add data fields here

Values

Add drill-through fields here

Drill through

Cross-report

Keep all filters

Page 1 of 1

Page 1 +

3:01 PM
9/13/2023

The screenshot shows a Power BI Desktop interface with a "Sales report" page. The main area features a pie chart titled "Sum of Profit and Sum of Sale Price by Country" showing data for Germany, France, and Canada. To the left is a "Monthwise sales" card with values 2 and 6. Below the chart is a "Country" slicer with options for Canada, France, Germany, Mexico, and United States of America. The "Fields" pane on the right lists various data fields such as Sales, COGS, and Profit, along with their respective measures and calculated columns. The status bar at the bottom indicates "Page 1 of 1" and the current date and time as 3:01 PM on 9/13/2023.

13-09-2023

powerbireport1 - Power BI Desktop

File Home Insert Modeling View Help

Paste Cut Copy Format painter Get data Data Server Enter Dataverse Recent sources Transform data Refresh data New visual Text box More visuals Insert New measure Quick measure Calculations Sensitivity Publish

Sales report

Sum of Profit by Month Name and Year

Year
● 2013
● 2014

Sum of Profit

Month Name

Month Name	2013	2014
October	1.66M	1.66M
December	0.69M	1.02M
September	0.76M	1.41M
June	1.02M	
November	0.77M	
February	0.73M	
April	1.15M	
July	0.93M	
May	0.92M	
January	0.83M	
August	0.84M	
March	0.71M	
	0.67M	

Sum of Profit and Sum of Sale Price by Country

Mexico 2.91M (17.21%)
France 3.78M (22.38%)
United States 3M (17....)
Canada 3.53M (20.89%)
Germany 3.68M (21.79%)

Fields

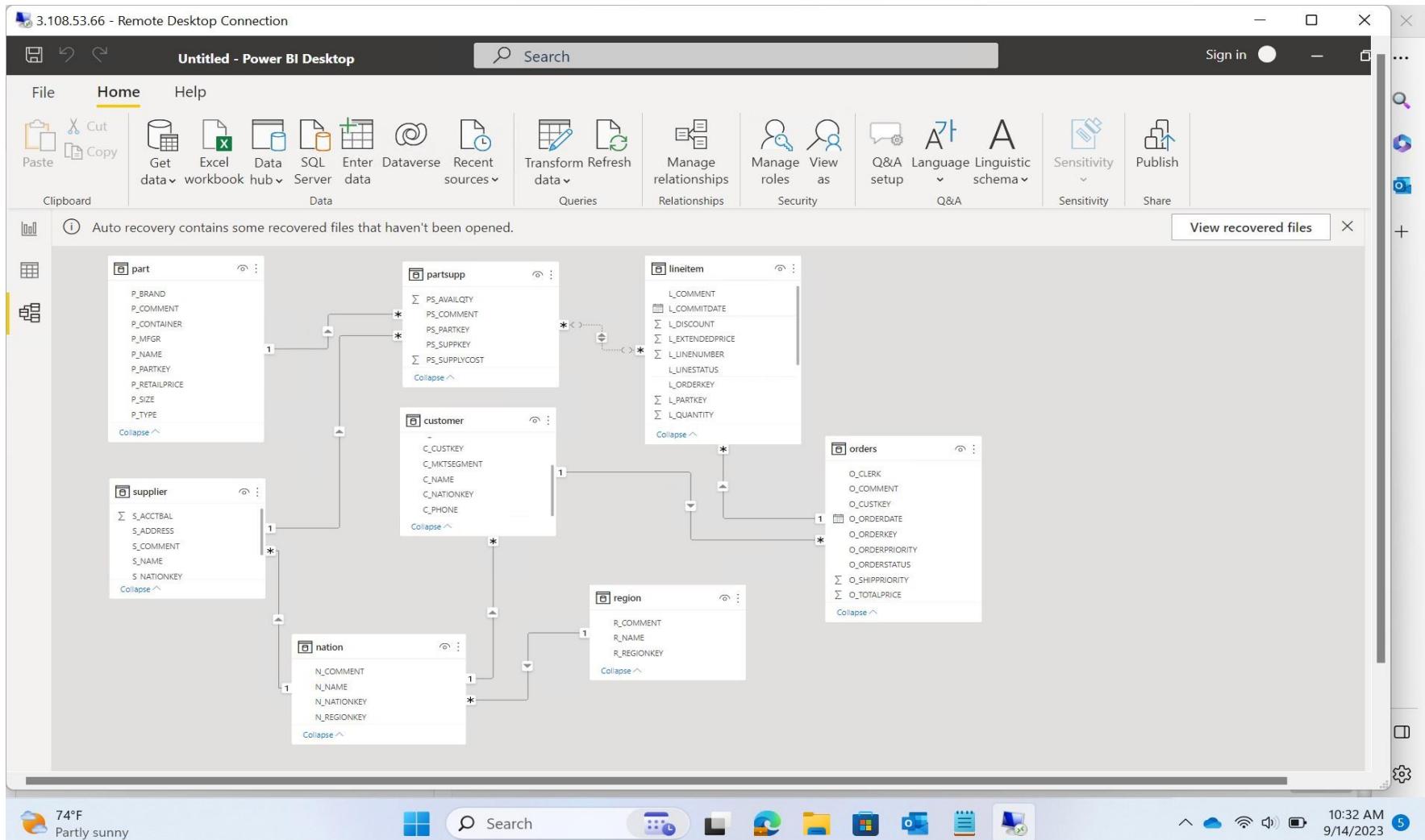
Search

Filters

Page 1 of 1

12:24 PM 9/13/2023

14-03-2023



14-03-2023

65.0.170.197 - Remote Desktop Connection

Clipboard Data Data Transform data Queries Insert Calculations Sensitivity Share

Clipboard Data Data Transform data Queries Insert Calculations Sensitivity Share

Top 5 valuable customers

Amount spent

Customer Name	Amount spent
Customer...	5.5M
Customer...	4.8M
Customer...	4.5M
Customer...	4.2M
Customer...	4.0M

Top 5 Countries with high sales

0_ORDERDATE

1/1/1992 8/2/1998

Country	Sales Amount
CANADA	109.62M
EGYPT	106.41M
IRAN	104.24M
BRAZIL	98.2M
ALGERIA	97.42M

Nation-wise suppliers count

Suppliers count

Country	Suppliers count
UNITED STA...	8
CHINA	7
MOZAMBIQUE	7
EGYPT	6
KENYA	6
Vietnam	6

Countries with least sales

Country	Sales Amount
PERU	65.95M
CHINA	65.16M
UNITED STATES	65.15M
FRANCE	53.69M
RUSSIA	71.32M

Build visual

Filters

Search

customer DataTable lineitem nation orders part partsupp region supplier

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

Values

Page 1 Page 2 +

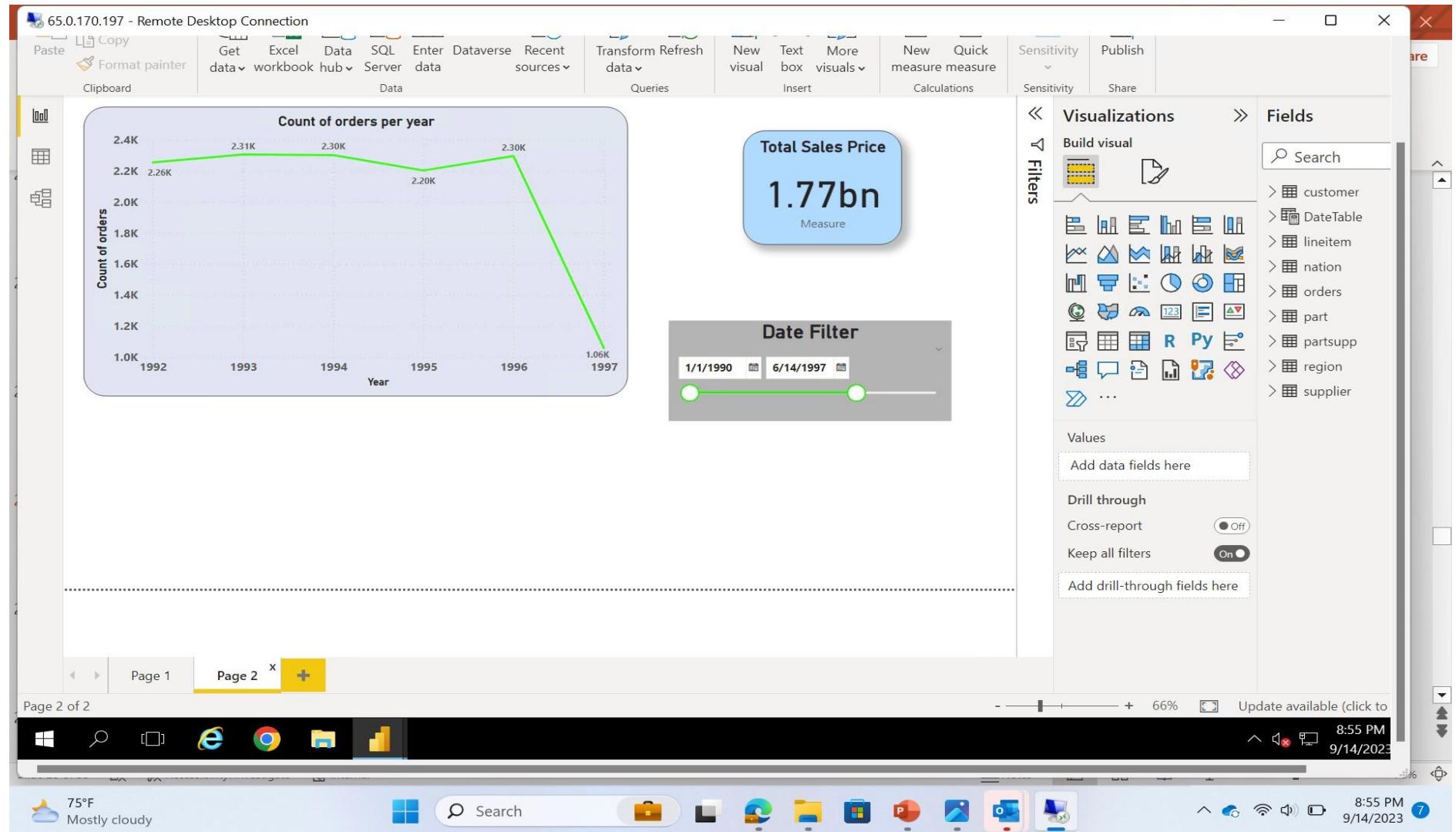
Page 1 of 2

75°F Mostly cloudy

8:55 PM 9/14/2023

8:55 PM 9/14/2023

14-03-2023



14-03-2023

65.0.170.197 - Remote Desktop Connection

power1 - Power BI Desktop

File Home Insert Modeling View Help

Clipboard Data Queries Insert Calculations Sensitivity Share

Recycle Bin EnterpriseG.

Google Chrome LibreOffice 7.0 Power BI Desktop Readme SQL Server

Daily Summary Report

Year	Month	Day	RigName	Total drilled depth	Average drilling speed	Total operating hours	Sum of DrillBitChanges
2023	September	1	Rig A	100.00	20.00	10.00	1
2023	September	1	Rig B	150.00	25.00	9.00	0
2023	September	2	Rig A	200.00	18.00	12.00	2
2023	September	2	Rig B	250.00	24.00	10.00	1
2023	September	3	Rig A	300.00	22.00	9.00	0
2023	September	3	Rig B	350.00	26.00	8.00	0
2023	September	4	Rig A	400.00	19.00	11.00	1
2023	September	4	Rig B	450.00	23.00	11.00	2
2023	September	5	Rig A	500.00	21.00	8.00	0
2023	September	5	Rig B	550.00	27.00	7.00	0
Total				3,250.00	22.50	95.00	7

Select date

1	7	13	19	25	31
2	8	14	20	26	
3	9	15	21	27	
4	10	16	22	28	
5	11	17	23	29	
6	12	18	24	30	

DrillBitChanges by RigName

Sum of DrillBitChanges

RigName

Fields Visualizations Filters

Page 1 Page 2 +

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Search

8:53 PM 9/14/2023

14-03-2023

65.0.170.197 - Remote Desktop Connection

power1 - Power BI Desktop

Recycle Bin

EnterpriseG.

Google Chrome

LibreOffice 7.0

Power BI Desktop

Readme

SQL Server

File Home Insert Modeling View Help

Paste Cut Copy Format painter Clipboard

Get data Excel workbook hub Data SQL Server Enter data Dataverse Recent sources

Transform data New visual Text box More visuals Insert

New measure measure Quick Calculations Sensitivity Publish Share

Search Sign in

Progress tracking of each Rig

RigName: Rig A, Rig B

Sum of DrilledDepth: 0, 100, 200, 300, 400, 500, 600

Day: 1, 2, 3, 4, 5

Select all	7	14	21	28
1	8	15	22	29
2	9	16	23	30
3	10	17	24	31
4	11	18	25	
5	12	19	26	
6	13	20	27	

Fields

Visualizations

Filters

Page 1 Page 2 +

Page 2 of 2

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8:53 PM 9/14/2023

15-09-2023

The screenshot shows a Jupyter Notebook interface running on a remote desktop connection. The notebook is titled "Day_01" and has an unsaved status. The code cells and their outputs are as follows:

```
In [3]: l=[1,2,3,4,5]
In [4]: print(l[1])
2
In [5]: print(l)
[1, 2, 3, 4, 5]
In [6]: print(l[1:])
[2, 3, 4, 5]
In [7]: s="sushant"
In [8]: s
Out[8]: 'sushant'
In [9]: s[1:4]
Out[9]: 'ush'
In [10]: s[-1]
Out[10]: '
```

The system tray at the bottom shows the date as 9/15/2023 and the time as 12:15 PM.

15-09-2023

The screenshot shows a Windows desktop environment with a Jupyter Notebook window open. The window title is "65.1.107.27 - Remote Desktop Connection" and the tab bar shows "Applications : Day_01 - Jupyter Noteb...". The notebook interface displays several code cells and their outputs.

In [22]:

```
#list
l=[1,2,3,4,5,6,7]
print(l[0])
l.insert(2,20)
print(l)
l.append(40)
print(l)
l.remove(4)
print(l)
l.pop(2)
print(l)
l.pop()
print(l)
l.index(3)
print(100 in l)
```

Output:

```
1
[1, 2, 20, 3, 4, 5, 6, 7]
[1, 2, 20, 3, 4, 5, 6, 7, 40]
[1, 2, 20, 3, 5, 6, 7, 40]
[1, 2, 3, 5, 6, 7, 40]
[1, 2, 3, 5, 6, 7]
False
```

In [23]:

```
t=(1,2,3,4,5,6,7,8,9)
```

In [24]:

```
print(t)
```

Output:

```
(1, 2, 3, 4, 5, 6, 7, 8, 9)
```

In [25]:

```
print(t[:3])
```

Output:

```
(1, 2, 3)
```

In [26]:

```
s={1,2,3,4,5,6,7,8,9,0}
s.add(100)
```

In [27]:

```
s
```

The taskbar at the bottom of the screen includes icons for File Explorer, Task View, and various system status indicators like battery level and signal strength. The system tray shows the date and time as "12:42 PM 9/15/2023".

15-09-2023

65.1.107.27 - Remote Desktop Connection

Applications : Day_01 - Jupyter Noteb...

Documents/Python/ Day_01 - Jupyter Notebook Python String Methods

localhost:8888/notebooks/Documents/Python/Day_01.ipynb

jupyter Day_01 Last Checkpoint: 18 minutes ago (autosaved)

In [38]: `s.difference_update(t)`

In [39]: `s`

Out[39]: `{1, 2}`

In [40]: `s={1,2,3,4}`

In [42]: `s.intersection_update(t)`

In [43]: `s`

Out[43]: `{3, 4}`

In [44]: `s={1,2,3,4}`

In [45]: `s.symmetric_difference(t)`

Out[45]: `{1, 2, 5, 6}`

In [46]: `s.symmetric_difference_update(t)`

In [47]: `s`

Out[47]: `{1, 2, 5, 6}`

In [48]: `s={1,2,3,4}
b={1,2}`

In [49]: `s.issuperset(b)`

Out[49]: `True`

In [50]: `b.issubset(s)`

Out[50]: `True`

In []:

79°F Mostly cloudy

Search

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel)

12:42 PM 9/15/2023

15-09-2023

```
In [53]: l=["E","W","S","N"]
p=[]
for i in l:
    print("Please enter the stations present in the {} region".format(i))
    d={}
    stations = input("Enter the stations name with space seperation").split()
    profit=eval(input("Is region profitable: Enter True/False"))
    usersa = eval(input("Is use experience good in this region: Enter True/False"))
    d['region']=i
    d['stations']=stations
    d['profit']=profit
    d['user']=usersa
    p.append(d)

for i in p:
    print(f"Region: {i['region']}")
    if i['profit'] and i['user']:
        print(f"we can build more stations in {i['region']}")

    else:
        print(f"we can not build more stations in {i['region']}")
```

```
Please enter the stations present in the E region
Enter the stations name with space seperation a
Is region profitable: Enter True/FalseTrue
Is use experience good in this region: Enter True/FalseTrue
Please enter the stations present in the W region
Enter the stations name with space seperation b
Is region profitable: Enter True/FalseFalse
Is use experience good in this region: Enter True/FalseTrue
Please enter the stations present in the S region
Enter the stations name with space seperation c
Is region profitable: Enter True/FalseTrue
Is use experience good in this region: Enter True/FalseTrue
Please enter the stations present in the N region
Enter the stations name with space seperation d
```

15-09-2023

The screenshot shows a Jupyter Notebook interface running on a remote desktop connection. The title bar indicates the connection is to 65.1.107.27. The notebook tab bar shows tabs for 'Day_01 - Jupyter Noteb...', 'Documents/Python/...', and 'Python String Methods'. The current notebook is titled 'Day_01' and has a last checkpoint of 4 hours ago. The interface includes a toolbar with file operations like New, Open, Save, Run, and Kernel, and a Help button.

The notebook content displays several code cells:

- In [54]:

```
#string formatting
name = "sushant"
age=23
print(f"name: {name}\nage: {age}")
```

Output:

```
name: sushant
age: 23
```
- In [56]:

```
l1=[1,2,3,4,5]
l2=[4,5,6,7]
for i in zip(l1,l2):
    print(i)
```

Output:

```
(1, 4)
(2, 5)
(3, 6)
(4, 7)
```
- In [58]:

```
for index, item in enumerate(l1,2):
    print(index,item)
```

Output:

```
2 1
3 2
4 3
5 4
6 5
```
- In [60]:

```
from collections import Counter
print(Counter(l1))
```

15-09-2023