



JOURNEY SCRAPBOOK

Custom Course – week 3

RADHIKA TIBREWAL





DAY-1

Azure Synapse Analytics

1. Azure Synapse Analytics : Used To Create ADF Services, Spark Notebooks, SQL Data Warehouse
2. SQL Pool
 - Serverless
 - Dedicated Pool
3. Spark Pool
4. Data Exploration
5. SQL Database
6. Collate
7. Common Table Expression (CTE)
8. View
9. DWU (Data Warehousing Unit)
10. Storage Node
11. Compute Node
12. Data Movement Service (DMS)
13. Massive Parallel Processing
14. Replicated Tables
15. Hash Distributed Table
16. Implementing Partitions For An SQL Data Warehouse

Microsoft Azure Synapse Analytics-20230912034630 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: MicrosoftAzure.SynapseAnalytics-20230912034630 Start time: 9/12/2023 3:56:42 AM Correlation ID: 3ea6c295-62d0-4c56-b66c-bc7b0ffa7fa

Subscription: rgusweb16802813483707 Resource group: RG-Anushka

Deployment details

Next steps

Go to resource group

Give feedback

Tell us about your experience with deployment

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.

Set up cost alerts

Microsoft Defender for Cloud

Secure your apps and infrastructure

Go to Microsoft Defender for Cloud

Free Microsoft tutorials

Start learning today

Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

Find an Azure expert

Applications anushkasympase - Azure

Microsoft Azure Portal | Microsoft

anushkasympase - Micros

anushkasympase - Azure

web.azure.synapse.net/en/authoring/explore/linked/sqlscripts/SQL%20script%201?workspace=%2Fsubscriptions%2F6f5f0a...

Microsoft Azure Synapse Analytics anushkasympase

Workspace Linked

Filter resources by name

Azure Data Lake Storage Gen2

anushkasympase (Primary - anushk...

anushkafile (Primary)

anushkafile (Attached Container)

SQL script 1

```
1 -- This is auto-generated code
2 SELECT
3 TOP 100 *
4 FROM
5 OPENROWSET(
6 BULK 'https://anushkaautomationshell.dfs.core.windows.net/anushkafile/zipcodes.csv',
7 FORMAT = 'CSV',
8 PARSE_VERSION = '2.0',
9 HEADER_ROW = TRUE
10 ) AS [result]
11
```

Results Messages

View Table Chart Export results

RecordNumber	Zipcode	ZipCodeType	City	State	LocationType	Lat	Long	Xaxis	Yaxis	Zaxis
1	704	STANDARD	PARC PARQUE	PR	NOT ACCEPTA...	17.36	-66.22	0.38	-0.87	0.3
2	704	STANDARD	PASCO COSTA	PR	NOT ACCEPTA...	17.36	-66.22	0.38	-0.87	0.3
10	709	STANDARD	BDA SAN LUIS	PR	NOT ACCEPTA...	18.14	-66.26	0.38	-0.86	0.3
61391	76166	UNIQUE	CINGULAR WRL	TX	NOT ACCEPTA...	32.72	-97.31	-0.1	-0.83	0.5
61392	76177	STANDARD	FORT WORTH	TX	PRIMARY	32.75	-97.33	-0.1	-0.83	0.5
61393	76177	STANDARD	FT WORTH	TX	ACCEPTABLE	32.75	-97.33	-0.1	-0.83	0.5

10:00:14 Query executed successfully

Applications anushkasympase - Azure

Microsoft Azure Portal | Microsoft

anushkasympase - M

anushkasympase - A

notepad.pw | idashe

zipcodes.csv - Goog

web.azure.synapse.net/en/authoring/explore/workspace/sqlscripts/SQL%20script%202?workspace=%2Fsubscriptions%2F6...

Microsoft Azure Synapse Analytics anushkasympase

Workspace Linked

Filter resources by name

SQL database

anushka (SQL)

anush (SQL)

SQL script 1

SQL script 2

```
1 -- This is auto-generated code
2 WITH cte_test AS(
3
4 SELECT
5 TOP 100 *
6 FROM
7 OPENROWSET(
8 BULK 'https://anushkaautomationshell.dfs.core.windows.net/anushkafile/zipcodes.csv',
9 FORMAT = 'CSV',
10 PARSE_VERSION = '2.0',
11 HEADER_ROW = TRUE
12 ) AS [result]
13 )
14 Select * from cte_test
```

Properties

General Related (0)

Name SQL script 2

Description

Type sql script

Size 241 bytes

Results settings per query First 5000 rows (default)

All rows

Results Messages

View Table Chart Export results

RecordNumber	Zipcode	ZipCodeType	City	State	LocationType	Lat	Long
1	704	STANDARD	PARC PARQUE	PR	NOT ACCEPTA...	17.36	-66.22
2	704	STANDARD	PASCO COSTA	PR	NOT ACCEPTA...	17.36	-66.22
10	709	STANDARD	BDA SAN LUIS	PR	NOT ACCEPTA...	18.14	-66.26

10:00:07 Query executed successfully

Applications anushkasympase - Azure

Microsoft Azure Portal | Microsoft

anushkasympase - M

anushkasympase - A

notepad.pw | idashe

zipcodes.csv - Goog

web.azure.synapse.net/en/authoring/explore/workspace/sqlscripts/SQL%20script%202?workspace=%2Fsubscriptions%2F6...

Microsoft Azure Synapse Analytics anushkasympase

Workspace Linked

Filter resources by name

SQL database

anushka (SQL)

External tables

External resources

Views

anushka.view

Schemas

Security

anush (SQL)

SQL script 1

SQL script 2

```
14 Select * from cte_test
15
16 CREATE view anushka view as
17 SELECT
18 TOP 100 *
19 FROM
20 OPENROWSET(
21 BULK 'https://anushkaautomationshell.dfs.core.windows.net/anushkafile/zipcodes.csv',
22 FORMAT = 'CSV',
23 PARSE_VERSION = '2.0',
24 HEADER_ROW = TRUE
25 ) AS [result]
26
27
```

Properties

General Related (0)

Name SQL script 2

Description

Type sql script

Size 241 bytes

Results settings per query First 5000 rows (default)

All rows

Results Messages

No results to show

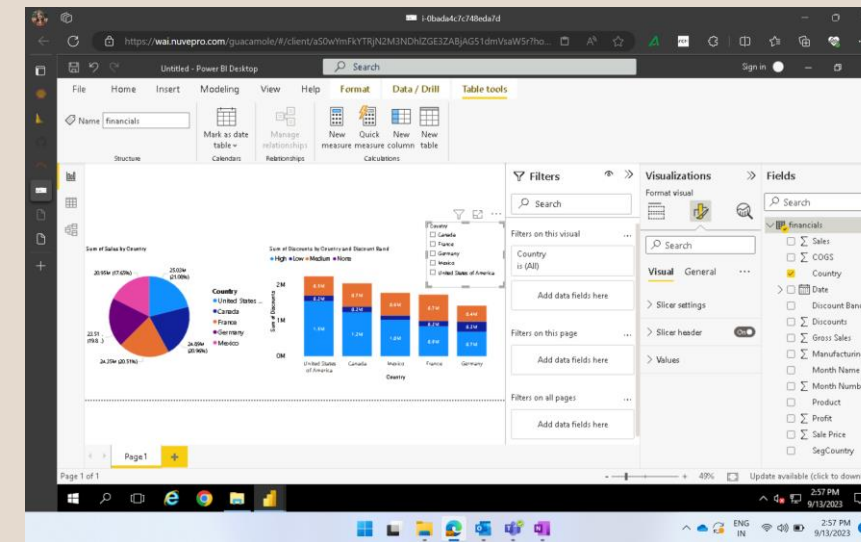
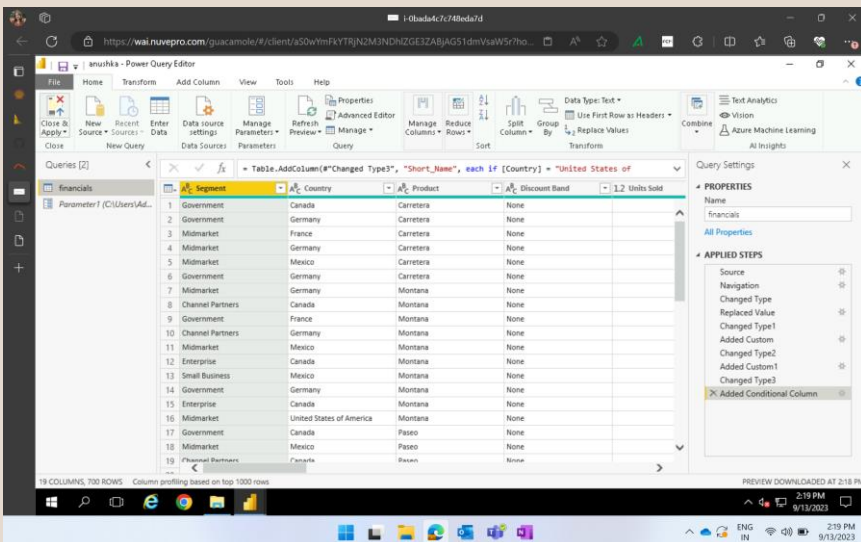
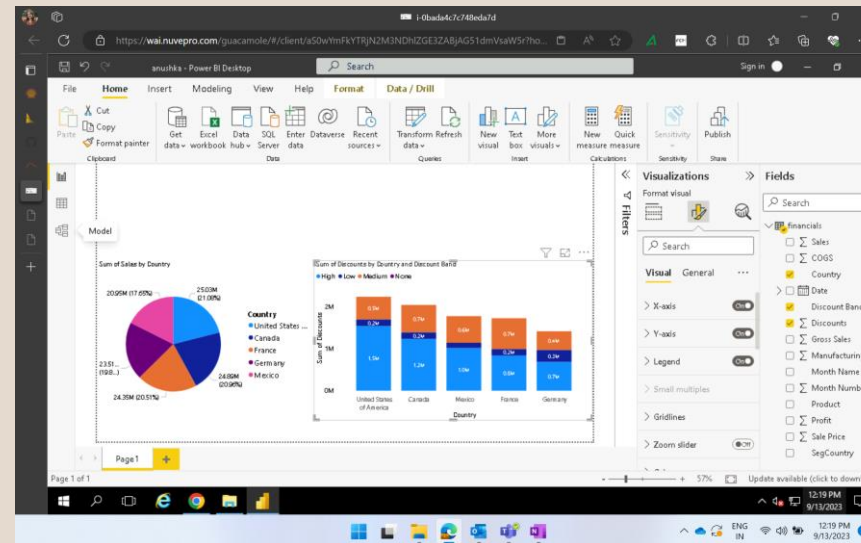
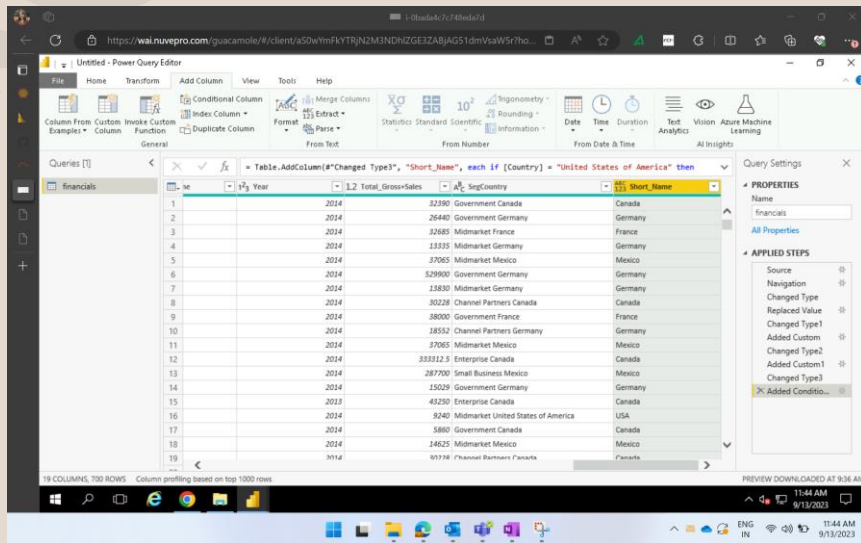
Your query yielded no displayable results

10:00:01 Query executed successfully

DAY-2

Data Visualization - Power BI

1. PBI Desktop
2. Power BI Supports Multiple Data Connectors.
3. Power Query Editor: Used To Transform Data
 - Language Used At Back-end - M Language
 - Different Fields Of This Editor
4. Get Data In PBI Report And Transform It In Power Query Editor
5. Getting Familiar With Different Visuals
6. Parameter
7. Filters :
 - Visual Level
 - Page Level
 - Report Level
8. Slicers
9. DAX Measures
10. DAX Calculated Columns
11. RLS (Manage Roles)





DAY-3

Power BI - Day 2

1.Data Modeling : Establishing Relationships Between Tables

2.Univariant

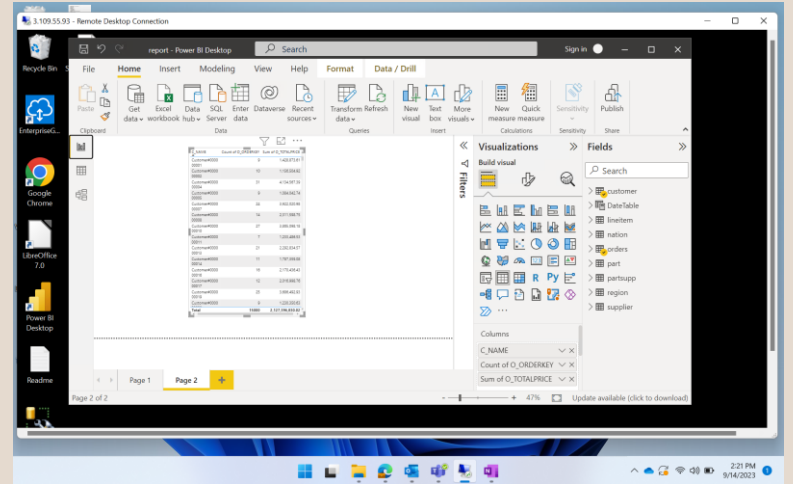
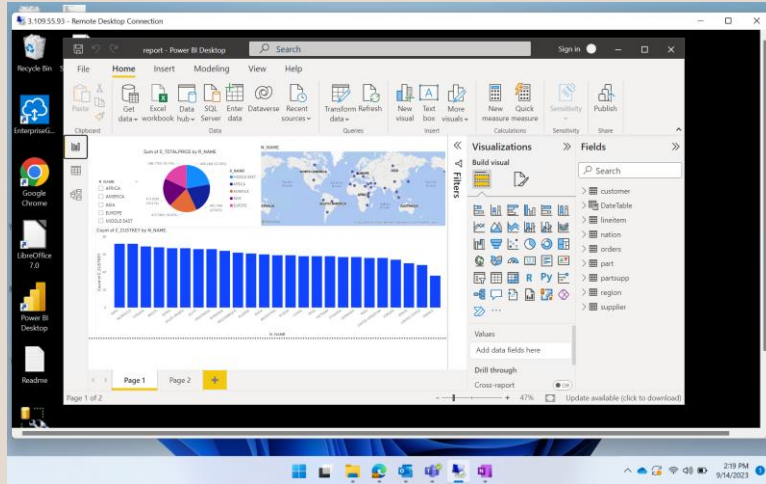
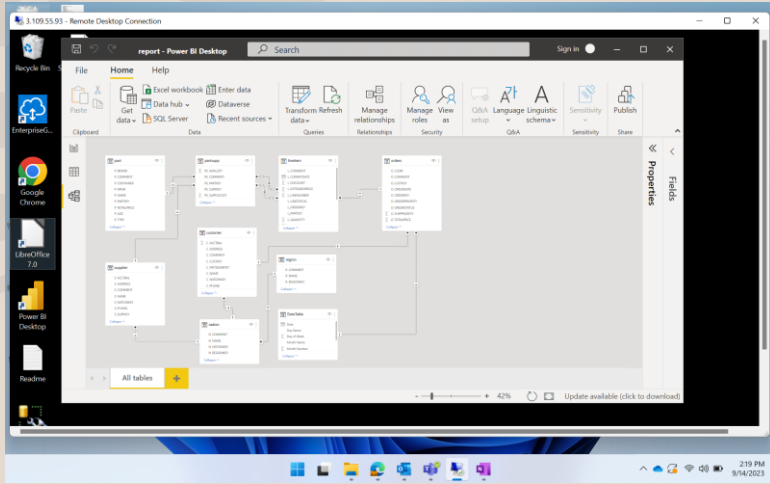
3.Bivariant

4.Multivariant

5.Drill Through

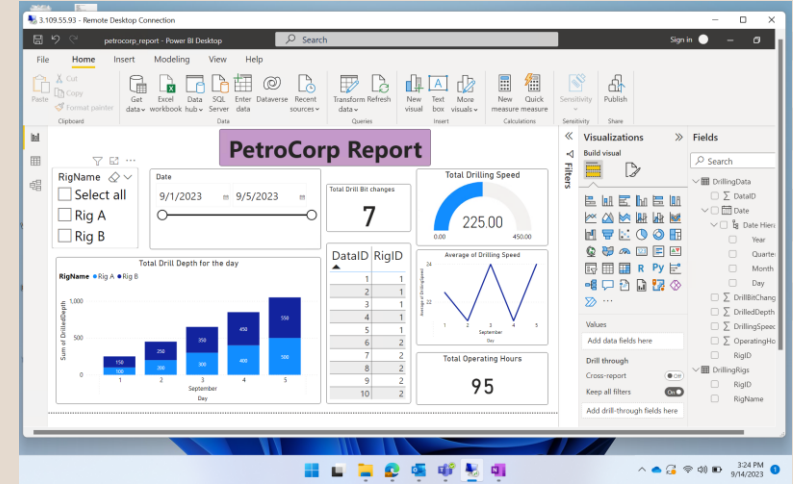
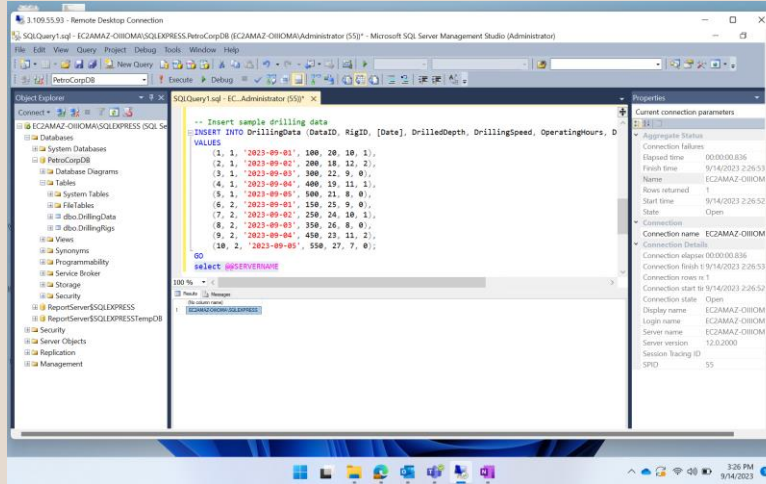
6.Date Table

7.Connection Of SQL Server And Power BI



This screenshot shows a report in Microsoft Power BI Desktop. The main visual is a table showing data from the 'customer' table. The table has columns for 'customer_id', 'customer_name', 'customer_address', and 'customer_phone'. The 'Visualizations' pane on the right shows the current visual is a 'Table'. The 'Fields' pane on the right shows the available fields for each table. The bottom status bar indicates the report is on Page 1 of 2, with a 47% zoom level and an update available notification.

customer_id	customer_name	customer_address	customer_phone
1	customer_1	customer_address_1	customer_phone_1
2	customer_2	customer_address_2	customer_phone_2
3	customer_3	customer_address_3	customer_phone_3
4	customer_4	customer_address_4	customer_phone_4
5	customer_5	customer_address_5	customer_phone_5
6	customer_6	customer_address_6	customer_phone_6
7	customer_7	customer_address_7	customer_phone_7
8	customer_8	customer_address_8	customer_phone_8
9	customer_9	customer_address_9	customer_phone_9
10	customer_10	customer_address_10	customer_phone_10





DAY-4

Python

1. Hands-on Assessment - Power BI
2. Jupyter Notebook Launch
3. Datatypes In Python:
 - Integer
 - Float
 - String
 - List
 - Dictionary
 - Tuple
 - Boolean
4. Arithmetic
5. Logic

The background features a light gray base with large, soft-edged organic shapes in muted red and olive green. A thin white line outlines a shape on the right. In the top left, there is a faint, stylized illustration of a leafy branch.

Thank You