

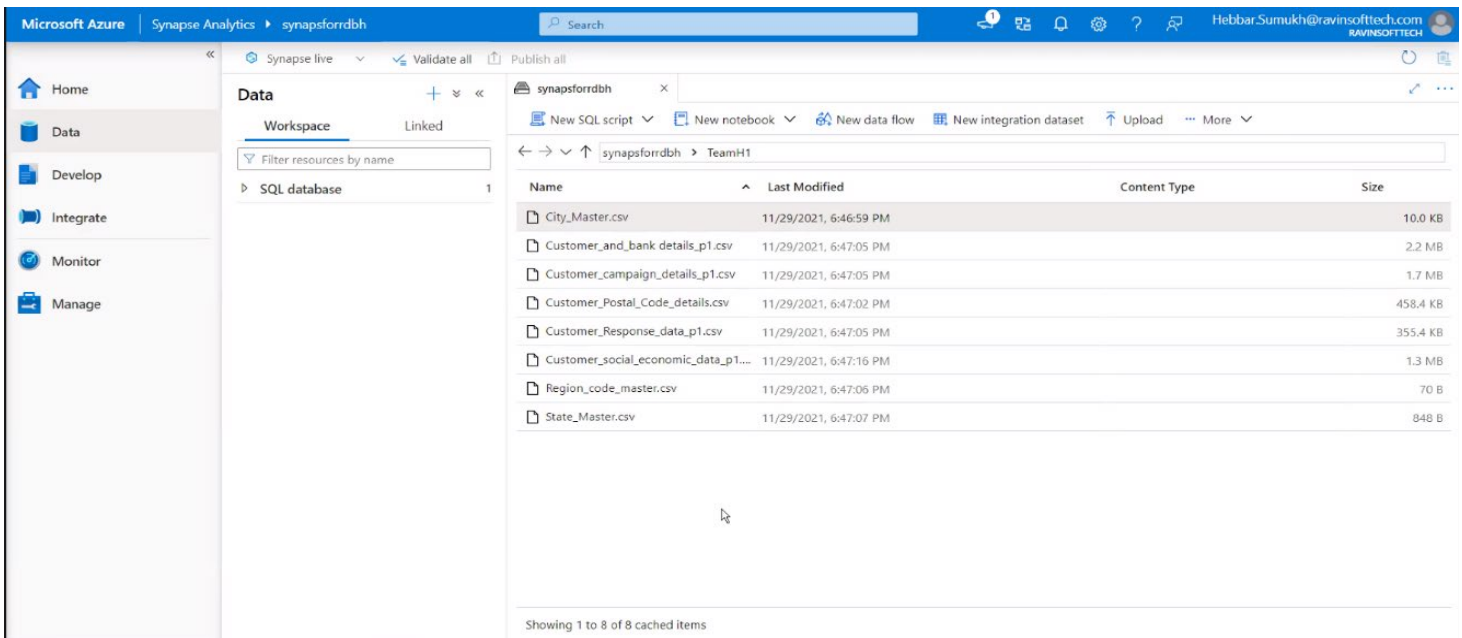
Checkpoint-3

BATCH H

GROUP H1

Task 3.2 - Data Analysis on Cloud AZURE

1. Create a folder with some valid name to upload your datasets to azure synapse storage Gen1



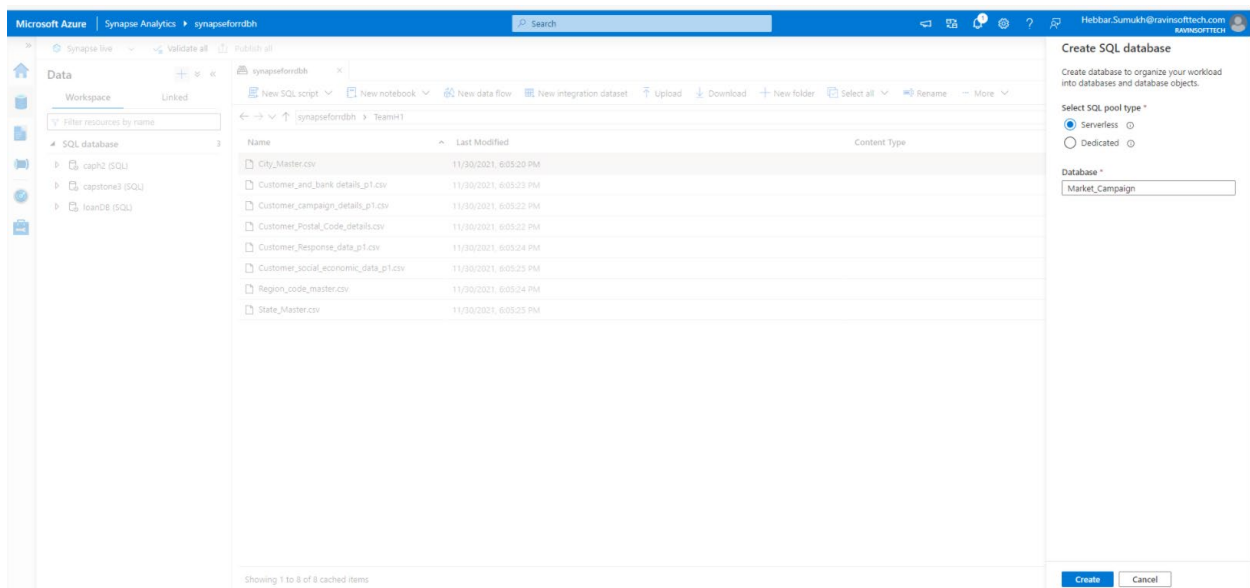
The screenshot displays the Microsoft Azure Synapse Analytics interface. The left sidebar shows navigation options: Home, Data, Develop, Integrate, Monitor, and Manage. The main area is titled 'Data' and shows a 'Workspace' view. A search bar is present, and a list of resources is shown under the 'SQL database' category. The workspace 'TeamH1' is selected, displaying a list of files with columns for Name, Last Modified, Content Type, and Size.

Name	Last Modified	Content Type	Size
City_Master.csv	11/29/2021, 6:46:59 PM		10.0 KB
Customer_and_bank_details_p1.csv	11/29/2021, 6:47:05 PM		2.2 MB
Customer_campaign_details_p1.csv	11/29/2021, 6:47:05 PM		1.7 MB
Customer_Postal_Code_details.csv	11/29/2021, 6:47:02 PM		458.4 KB
Customer_Response_data_p1.csv	11/29/2021, 6:47:05 PM		355.4 KB
Customer_social_economic_data_p1...	11/29/2021, 6:47:16 PM		1.3 MB
Region_code_master.csv	11/29/2021, 6:47:06 PM		70 B
State_Master.csv	11/29/2021, 6:47:07 PM		848 B

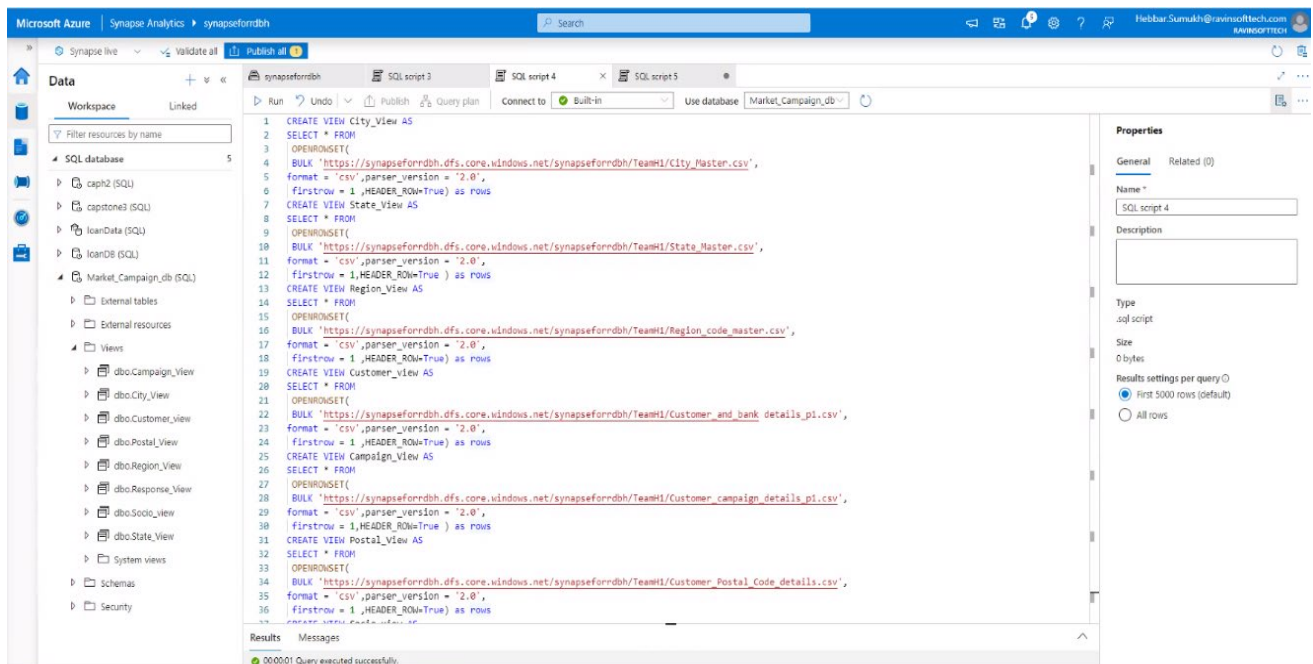
Showing 1 to 8 of 8 cached items

A azure Synapse was created and all our datasets was uploaded into it and was linked to the cloud.

2. Created a serverless SQL pool to query the data from storage gen1 and create view table



A Serverless SQL database was created, and queries were run to store the views of our datasets.



Queries were run for all the files and stored in respective views.

Microsoft Azure | Synapse Analytics | synapsfordb | Search

Synapse live | Validate all | Publish all

Workspace | Linked

Filter resources by name

SQL database 9

- CapH2 (SQL)
- Capstone2 (SQL)
- Capstone4 (SQL)
- carob (SQL)
- FinalDBH (SQL)
- hr (SQL)
- loanDB (SQL)
- Market_campaign (SQL)
 - External tables
 - External resources
 - Views
 - dbo.City_View
 - dbo.Customer_Campaign
 - dbo.Customer_Details
 - dbo.Postal_View
 - dbo.Region_View
 - dbo.Response_Data
 - dbo.Socio_Econ_View
 - dbo.State_View
 - System views
 - Schemas

SQL script 12

Run | Undo | Publish | Query plan | Connect to: Built-in | Use database: Market_campaign

1 SELECT * FROM dbo.Postal_View

Results | Messages

View | Table | Chart | Export results

C1	C2
1	42420
2	42420
3	90036
4	33311
5	33311
6	90032
7	90032
8	90032
9	90032
10	90032
11	90032
12	90032
13	28027
14	96103

Properties

General | Related (0)

Name * SQL script 12

Description

Type .sql script

Size 0 bytes

Results settings per query ☒ First 5000 rows (default) ☐ All rows

00:00:03 Query executed successfully.

Microsoft Azure | Synapse Analytics | synapsfordb | Search

Synapse live | Validate all | Publish all

Workspace | Linked

Filter resources by name

SQL database 9

- CapH2 (SQL)
- Capstone2 (SQL)
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 - dbo.State_View
 - System views
 - Schemas

SQL script 12

Run | Undo | Publish | Query plan | Connect to: Built-in | Use database: Market_campaign

1 SELECT * FROM dbo.Response_Data

Results | Messages

View | Table | Chart | Export results

C1	C2
1	no
2	no
3	no
4	no
5	no
6	no
7	no
8	no
9	no
10	no
11	no
12	no
13	no
14	no
15	no
16	no

Properties

General | Related (0)

Name * SQL script 12

Description

Type .sql script

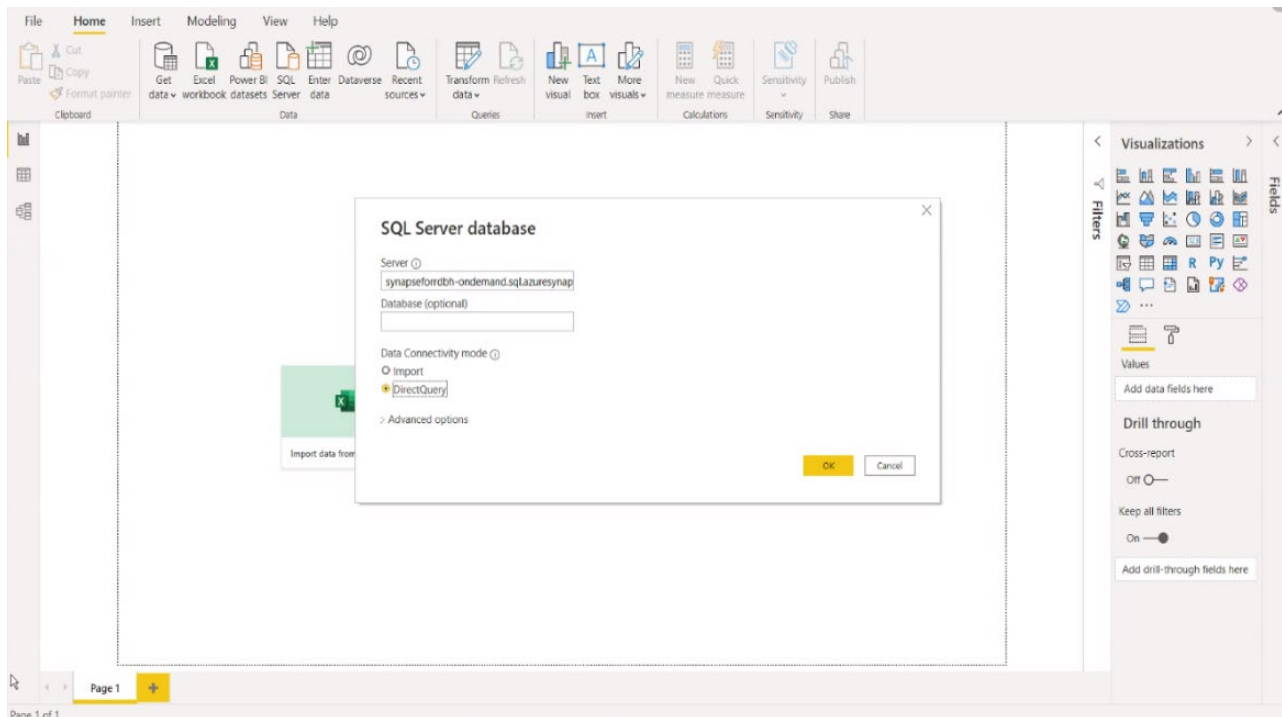
Size 0 bytes

Results settings per query ☒ First 5000 rows (default) ☐ All rows

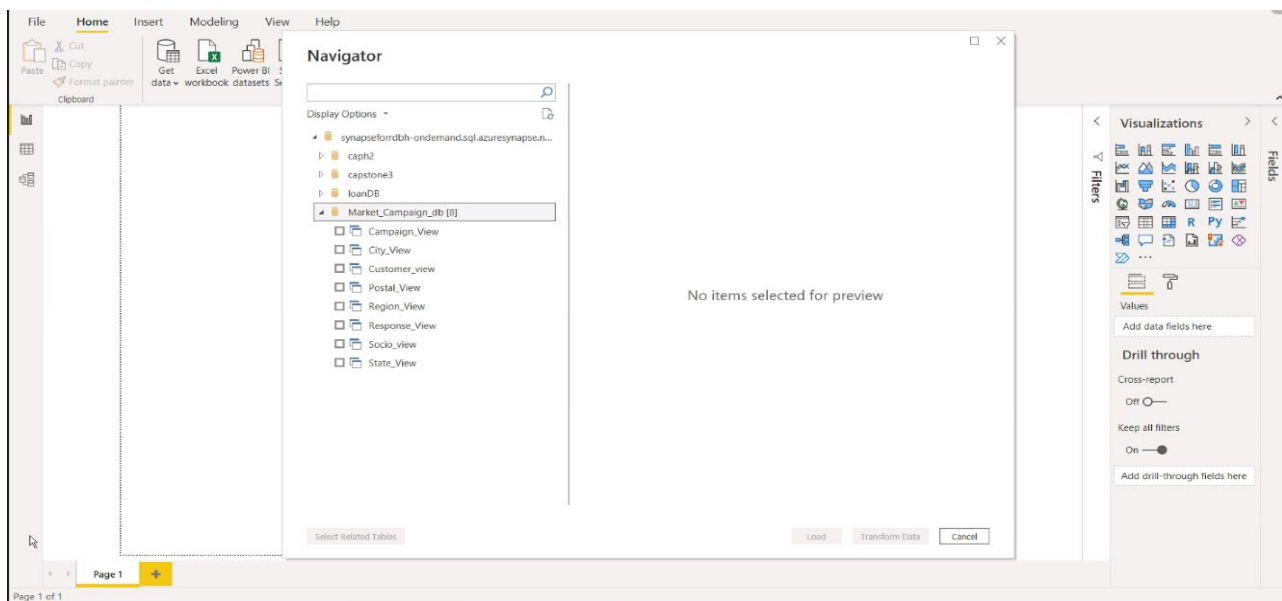
00:00:03 Query executed successfully.

All views were successfully checked and loaded.

Linking the Power BI to SQL Serverless database and viewing the list of view tables in Power BI
Provide Synapse- Serverless SQL endpoint and select “Direct Query”

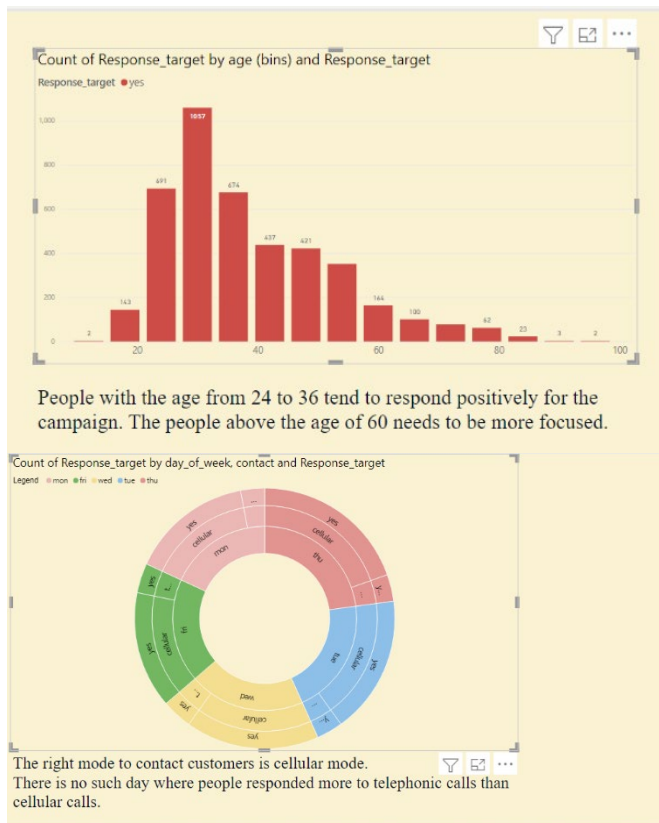


List of view tables in Power BI



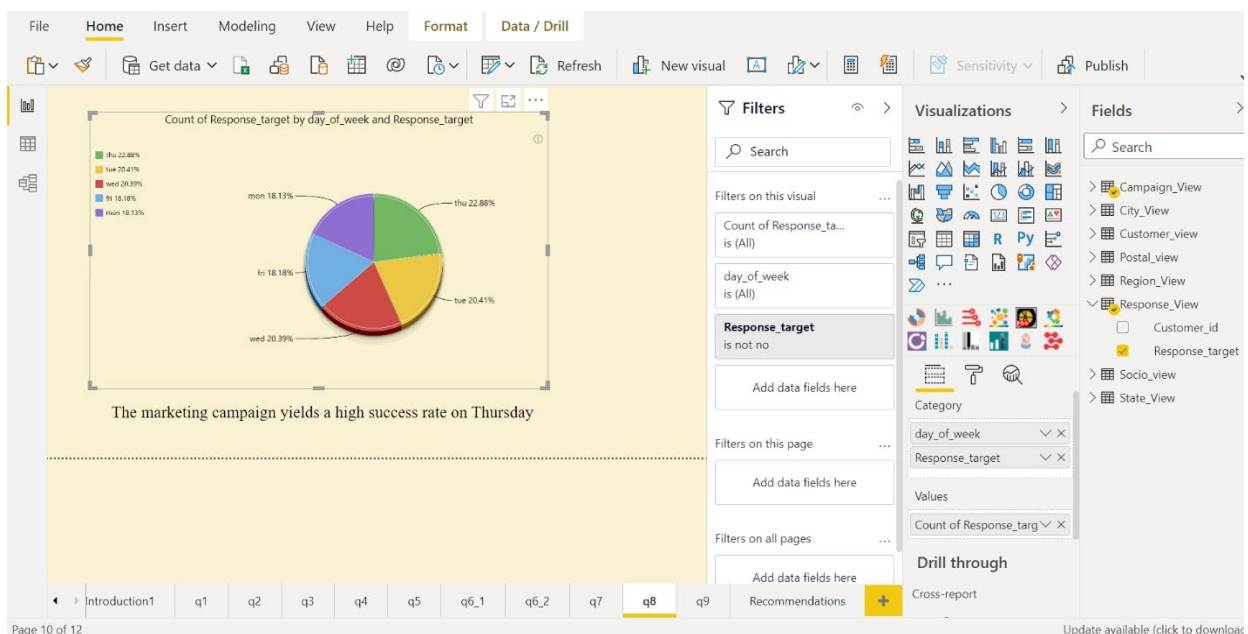
As we can see here, all the views are successfully loaded into the Power BI query editor.

Power BI analysis on the views: -

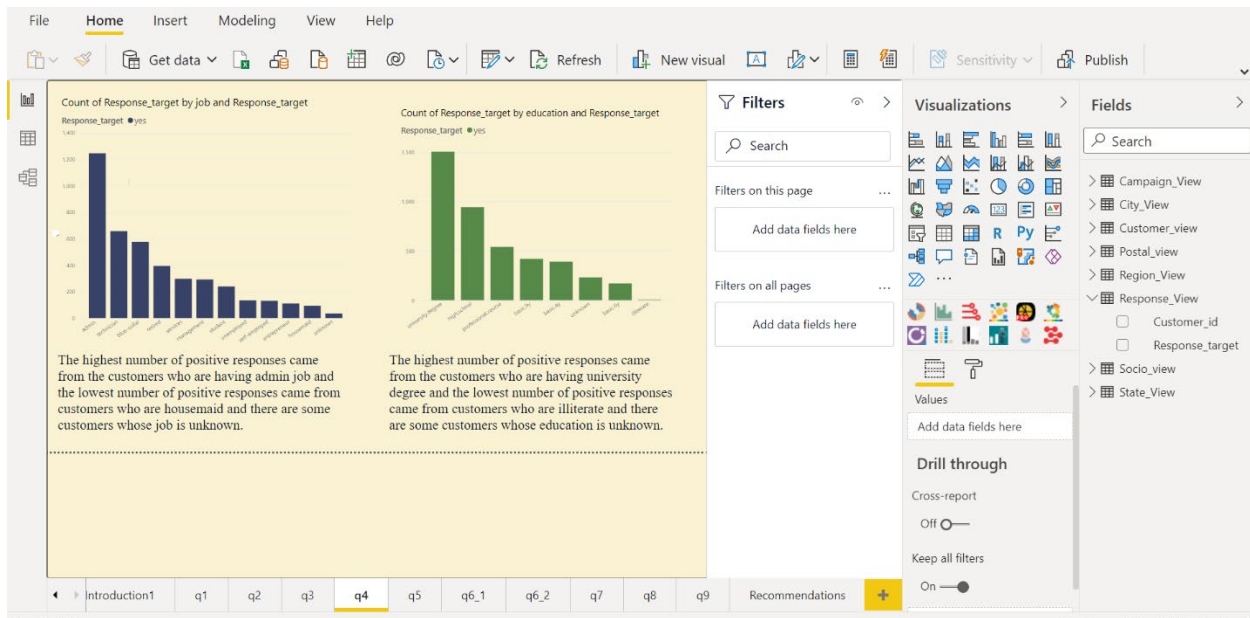


People with age group 24 to 36 tend to respond more

The right mode to contact the customers is the cellular mode



All days yields similar response towards success; hence we can say that day of week does not decide the outcome.



The highest number of responses came from the customers who are having job and who are having university degree.

These are some of Power BI analysis done on the views that were created on the Azure cloud.