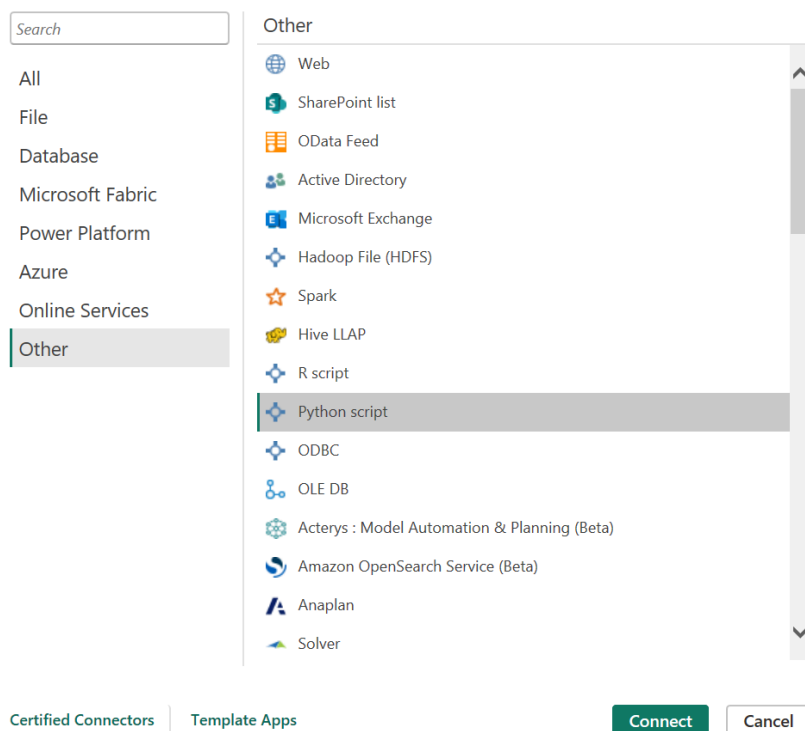


Sprint 8.2

Nivell 1

Se cargó la base de datos en Power Bi a través del mismo script que se usó en el Sprint 8.1

Get Data



Python script

Script

```
import mysql.connector

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

from datetime import datetime, date

def get_database(host, user, password, database):
    try:
        cnx = mysql.connector.connect(
```

The script will run with the following Python installation C:\Program Files\Python313.

To configure your settings and change which Python installation you want to run, go to Options and settings.

OK

Cancel

Script:

```

import mysql.connector

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

from datetime import datetime, date

def get_database(host, user, password, database):
    try:
        cnx = mysql.connector.connect(
            host = host,
            user = user,
            password = password,
            database = database
        )

        if cnx.is_connected():
            print(f'Se conectó a la base de datos "{database}" en MySQL')

            cursor = cnx.cursor()
            cursor.execute('SHOW TABLES;')
            tables = cursor.fetchall()
            table_names = [table[0] for table in tables]

            print(f'Tablas encontradas: {table_names}.')

            db = {}

            for table in table_names:
                query = f'SELECT * FROM {table};'
                db[table] = pd.read_sql(query, con = cnx)
            return db

    except mysql.connector.Error as error:
        print(f'Error: {error}')
        return None

    finally:

```

```

if cnx.is_connected():
    cnx.close()
    print('Conexión a MySQL cerrada.')

def rename_dfs():
    for table, df in db.items():
        globals()[table] = df
        print(f'Se creó el dataframe "{table}"')

if __name__ == '__main__':
    host = 'localhost'
    user = 'root'
    password = 'rootpassword'
    database = 'transactionsnew'

    db = get_database(host, user, password, database)
    rename_dfs()

```

Se cargaron los datos y se realizaron las transformaciones pertinentes en Power BI.

Navigator

Display Options ▾

Python [7]

- ☒ bridge_products
- ☒ card_status
- ☒ companies
- ☒ credit_cards
- ☒ products
- ☒ transactions
- ☒ users

transactions

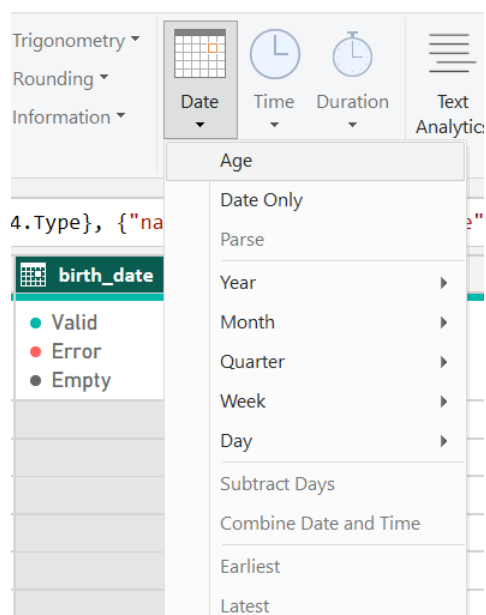
id	card_id	company_id	timestamp
02C6201E-D90A-1859-B4EE-88D2986D3B02	CcU-2938	b-2362	2021-08-20
0466A42E-47CF-8D24-FD01-C0B689713128	CcU-4219	b-2302	2021-07-20
063FBA79-99EC-66FB-29F7-25726D1764A5	CcU-2987	b-2250	2022-01-06
0668296C-CDB9-A883-76BC-2E4C44F8C8AE	CcU-3743	b-2618	2022-01-20
06CD9AA5-9B42-D684-DDDD-A5E394FEBA9	CcU-2959	b-2346	2021-10-20
07A46D48-31A3-7E87-65B9-0DA902AD109F	CcU-3225	b-2386	2021-06-20
09DE92CE-6F27-2BB7-13B5-9385B2B3B8E2	CcU-3071	b-2298	2021-05-10
0A476ED9-0C13-1962-F87B-D3563924B539	CcU-4359	b-2302	2022-02-20
08EB80B7-9D66-1707-CE4B-9DC7E71914B5	CcU-3141	b-2338	2022-03-06
0C7C3A33-9947-3BC1-846D-7BE3D0D17598	CcU-3309	b-2434	2021-04-10
0CE957A6-CCAA-2B7A-6839-8A4B1B324853	CcU-3435	b-2506	2022-02-06
0DD2E608-5C9E-D1B3-4999-B99F43AD735A	CcU-2959	b-2234	2021-04-10
1017AA59-3D5F-7A4C-1992-D151A8D1FA0A	CcU-3701	b-2618	2021-11-06
1026DA24-8929-31F1-8250-D7BAB05C13D2	CcU-2959	b-2346	2021-12-06
108B1D1D-5B23-A76C-55EF-C568E49A05DC	CcU-2938	b-2222	2021-07-06
10A9B07A-810C-76EB-4D15-12C6CC128037	CcU-3155	b-2346	2021-05-10
11ABED97-EA12-1B9A-96F0-A93ACC172179	CcU-3981	b-2362	2021-07-10
122DC333-E19F-D629-DCD8-9C54CF1EBB9A	CcU-4366	b-2302	2021-06-06
133B82CC-DE62-8604-2D11-3DC5449E0A5F	CcU-3407	b-2490	2021-04-06
135267BA-2E7D-957C-C42C-6450A2B3ED54	CcU-4520	b-2302	2021-12-20
13DCC69F-EA07-E52B-8309-D474C6281E80	CcU-3197	b-2370	2021-06-06
13FBB312-B283-7976-DA47-14DE5986218A	CcU-3365	b-2466	2021-10-30

Load

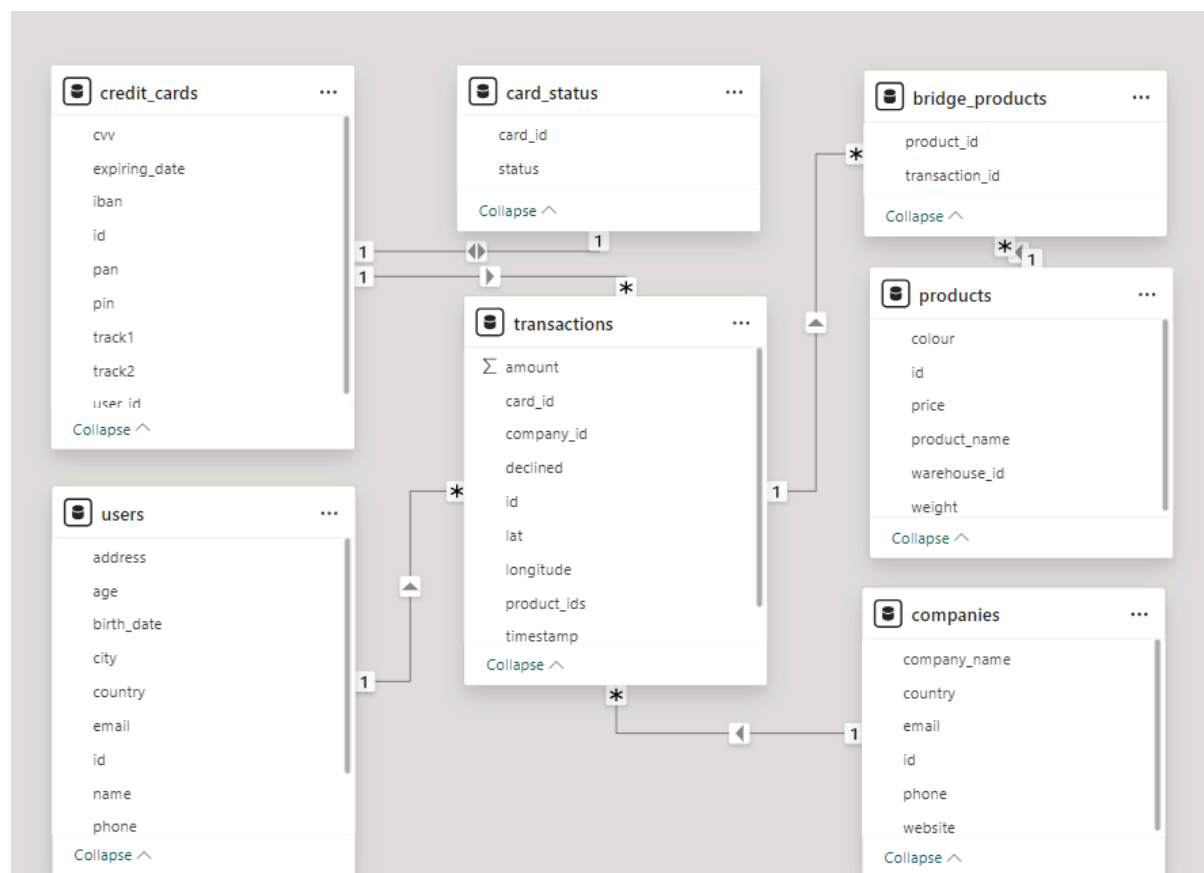
Transform Data

Cancel

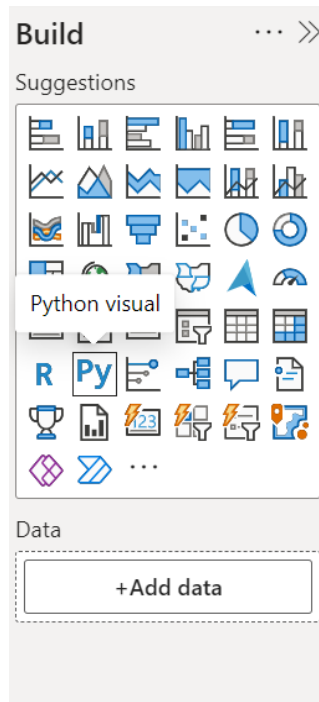
Se creó un nuevo campo en que se calcula la edad de los *users* usando “Agregar columna” basada en el campo *birth_date*.



Luego se crearon las relaciones del modelo:



Para realizar los gráficos se introdujeron objetos visuales de Python desde el panel “Build”



Dependiendo de los campos necesarios para cada gráfico, se agregaron a la sección Data y luego se escribió el script en el editor de Python

