Q 33: Connect to database using PostgreSQL and increase the temperature 2 degrees for participant with maximum humidity and display the result

--Create database

CREATE DATBASE Python;

--Create table

CREATE TABLE IF NOT EXISTS subject\_info (

Age DOUBLE PRECISION NOT NULL,

Weight DOUBLE PRECISION NOT NULL,

Height DOUBLE PRECISION NOT NULL,

Humidity DOUBLE PRECISION,

Temperature DOUBLE PRECISION,

Sex INTEGER NOT NULL,

ID INTEGER NOT NULL,

ID\_test TEXT NOT NULL

);

SELECT \* FROM subject\_info;

--To load data from your local csv file to postgres use below query

COPY subject\_info

FROM 'C:\Swati\study\Python\Python\_Hackathon2025\Datasets\subject\_info.csv'

DELIMITER ','

CSV HEADER;

SELECT \* FROM subject\_info;

select max(Humidity),Temperature

from subject\_info

Group by Temperature

order by Temperature,max(Humidity);

## Use Update to increase temperature by 2 wherever humidity is max

update subject\_info

set Temperature = Temperature + 2

where Humidity in (

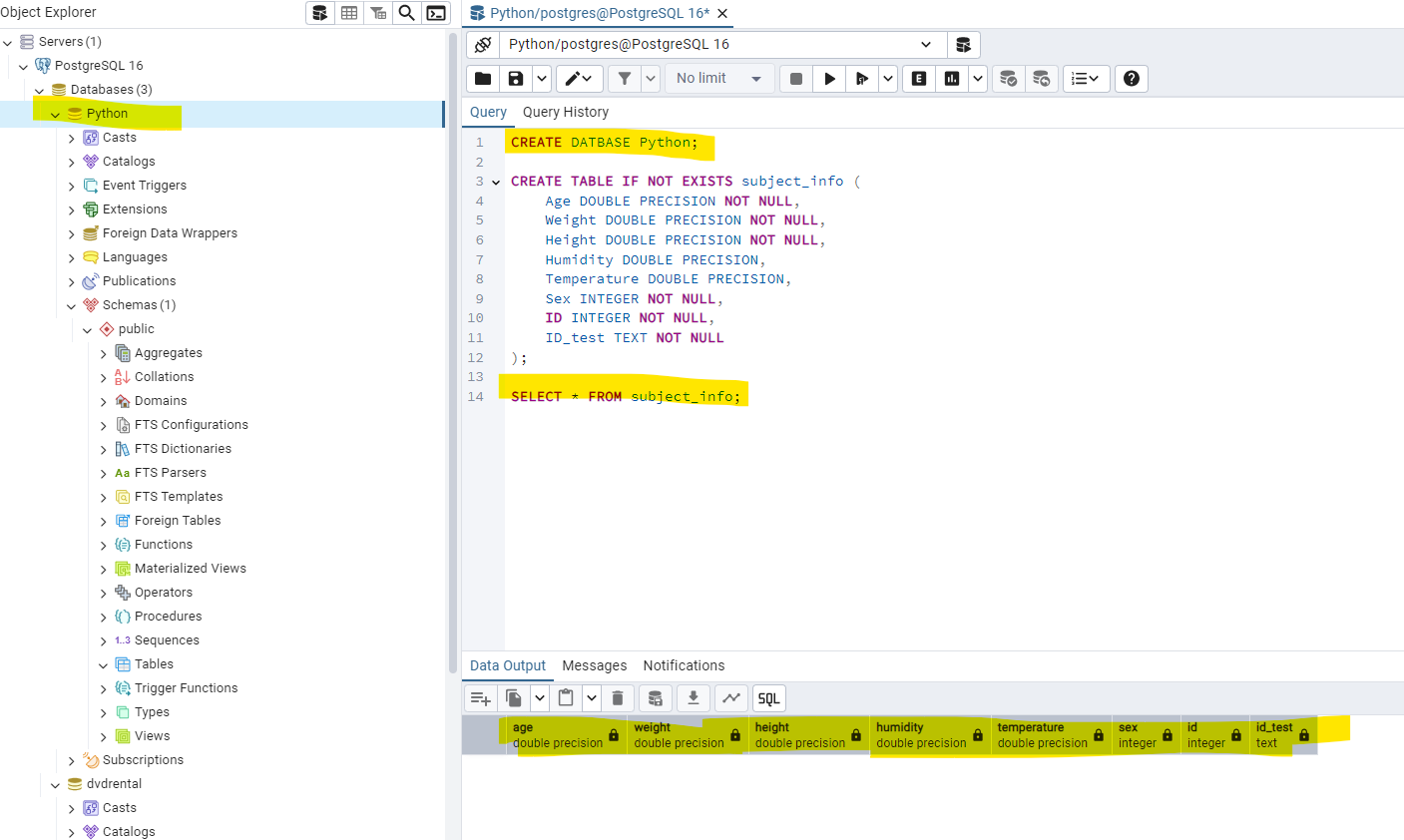
select max(Humidity)

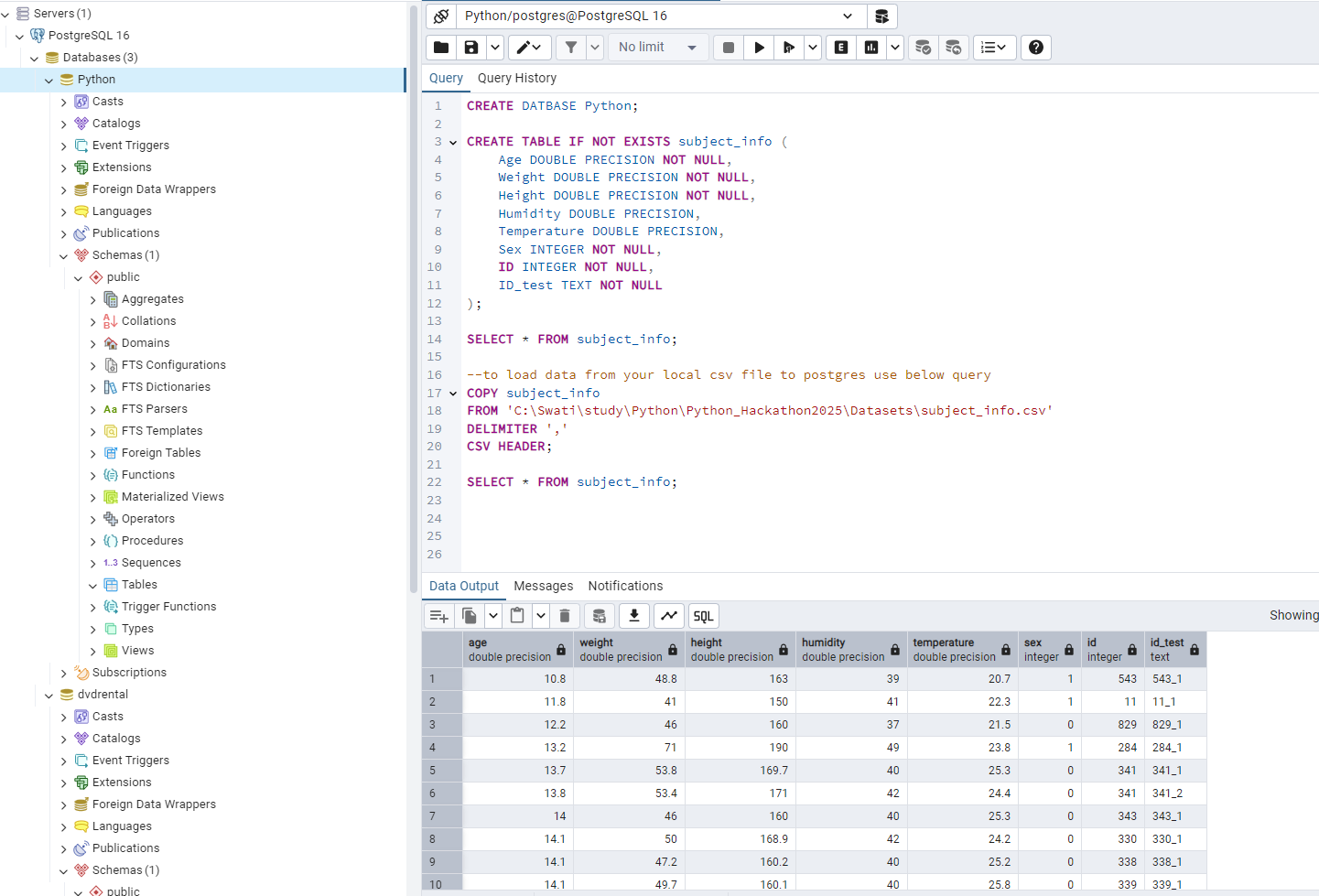
from subject\_info

where Humidity is not NULL

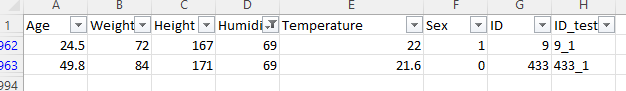
Group by Temperature

)

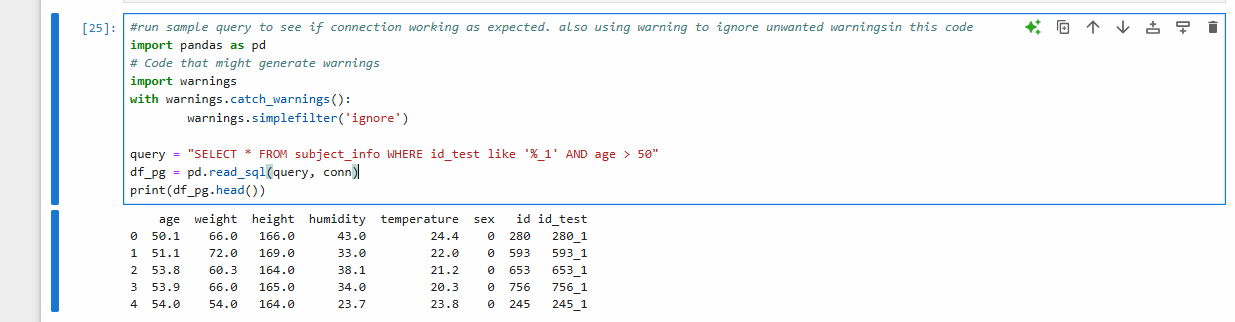




Before Query:



Output After query ran successfully and check in Jupyter notebook:



Q12: connect to database using PostgreSQL and get the details of participants in test 1 and age > 50

#using warning function to ignore unwanted warningsin this code

import pandas as pd

# Code that might generate warnings

import warnings

with warnings.catch\_warnings():

warnings.simplefilter('ignore')

query = "SELECT \* FROM subject\_info WHERE id\_test like '%\_1' AND age > 50"

df\_pg = pd.read\_sql(query, conn)

print(df\_pg.head())

