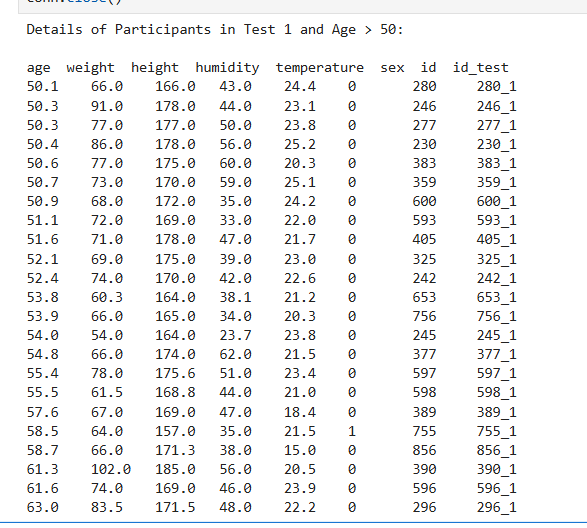
**12. Connect to database using PostgreSQL and get the details of participants in test 1 and age > 50.**

**Python Output:**

**Query:**

import psycopg2conn = psycopg2.connect(  
    dbname="subject\_info",  
    user="postgres",  
    password="pgdb",  
    host="localhost",  
    port="5432"  
)cur = conn.cursor()cur.execute("""  
select \* from subject\_info  
where  
Age > 50  
and  
rtrim(ID\_test) like '%\\\_1' escape '\\';  
""")column\_names = [desc[0] for desc in cur.description]  
results = cur.fetchall()print("Details of Participants in Test 1 and Age > 50:\n")  
print("  ".join(column\_names))for row in results:  
  print("\t".join(str(item) for item in row))cur.close()  
conn.close()

**Output:**



**Sql Output:**

**Query:**

select \* from subject\_info

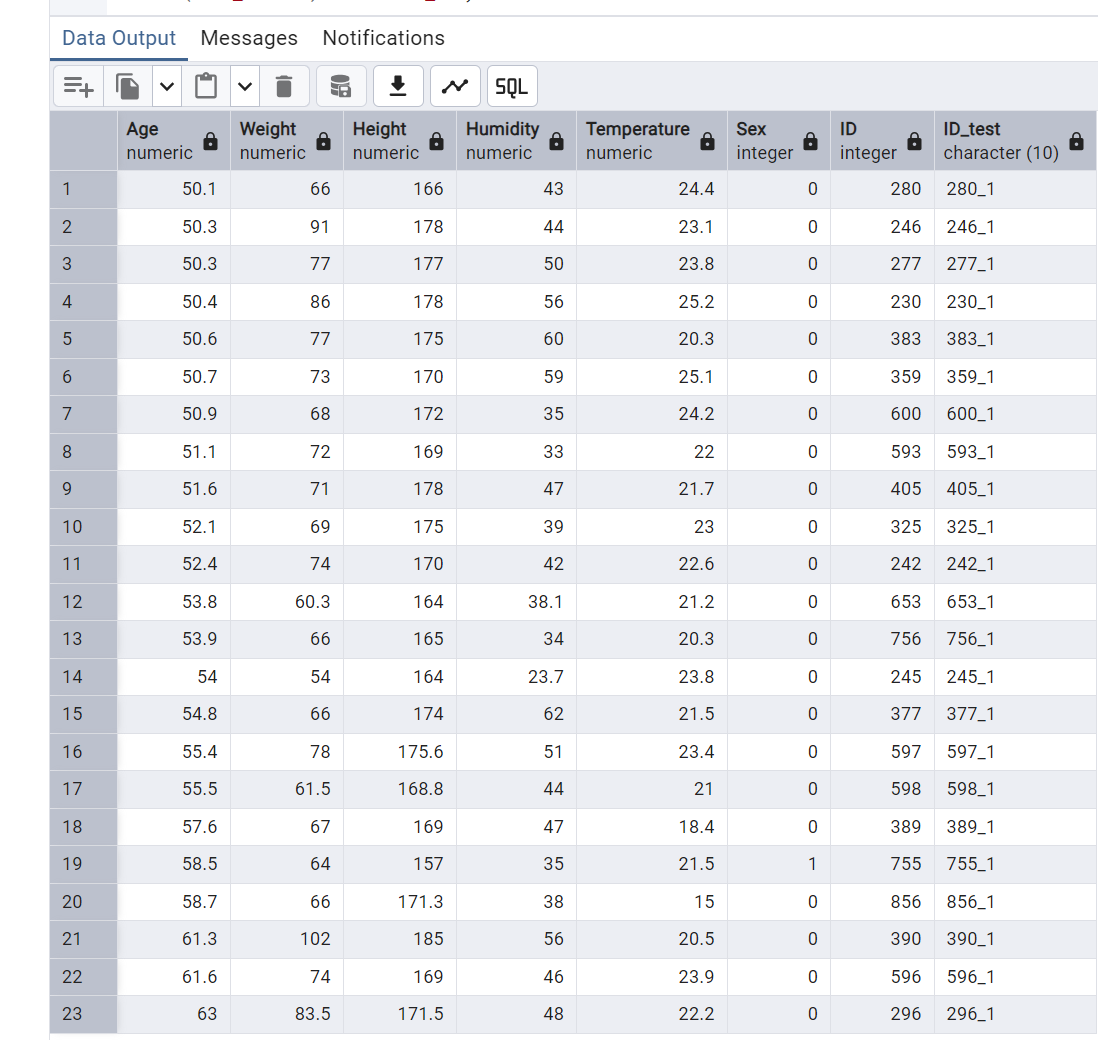
where

"Age" > 50

and

rtrim("ID\_test") like '%\\\_1' escape '\\;

**Output:**



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

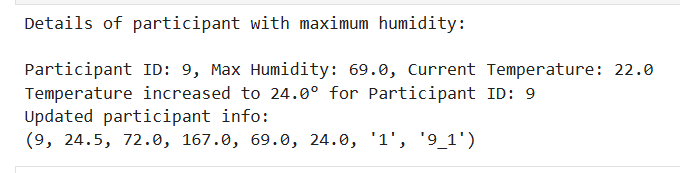
**Python Output:**

**Query:**

import psycopg2conn = psycopg2.connect(  
    dbname="subject\_info",  
    user="postgres",  
    password="pgdb",  
    host="localhost",  
    port="5432"  
)cur = conn.cursor()cur.execute("""  
    SELECT ID, Humidity, Temperature  
    FROM subject\_info  
    WHERE Temperature IS NOT NULL  
    ORDER BY Humidity DESC  
    LIMIT 1;  
""")result = cur.fetchone()if result:  
    id\_with\_max\_humidity = result[0]  
    max\_humidity = result[1]  
    current\_temperature = result[2]    print("Details of participant with maximum humidity:\n")  
    print(f"Participant ID: {id\_with\_max\_humidity}, Max Humidity: {max\_humidity}, Current Temperature: {current\_temperature}")    simulated\_temperature = current\_temperature + 2    print(f"Temperature increased to {simulated\_temperature}° for Participant ID: {id\_with\_max\_humidity}")    cur.execute("""  
        SELECT ID, Age, Weight, Height, Humidity, Temperature, Sex, ID\_test  
        FROM subject\_info  
        WHERE ID = %s;  
    """, (id\_with\_max\_humidity,))    original\_result = cur.fetchone()  
    if original\_result:        result = list(original\_result)  
        result[5] = simulated\_temperature

    print("Updated participant info:")  
        print(tuple(result))cur.close()  
conn.close()

**Output:**



**SQL Output:**

**Query:**

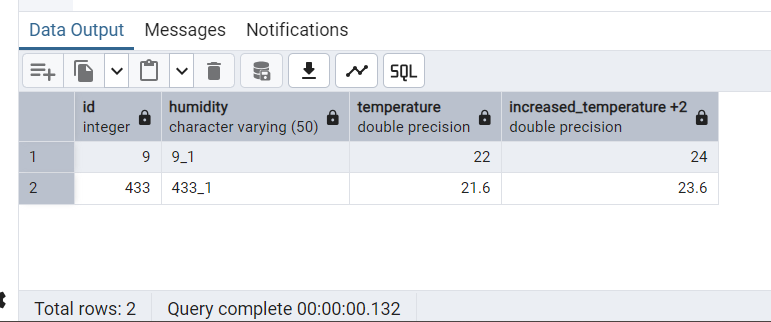
Select id, id\_test,humidity, temperature

Temperature + 2 as “increased\_temperature+2”

From subject\_info

Where humidity=(select max(humidity) from subject\_info)

**Output:**



**Question 27: (\*for some reason this chart is not shown after the merge)**

A blue and red circle with red and orange circles

AI-generated content may be incorrect.