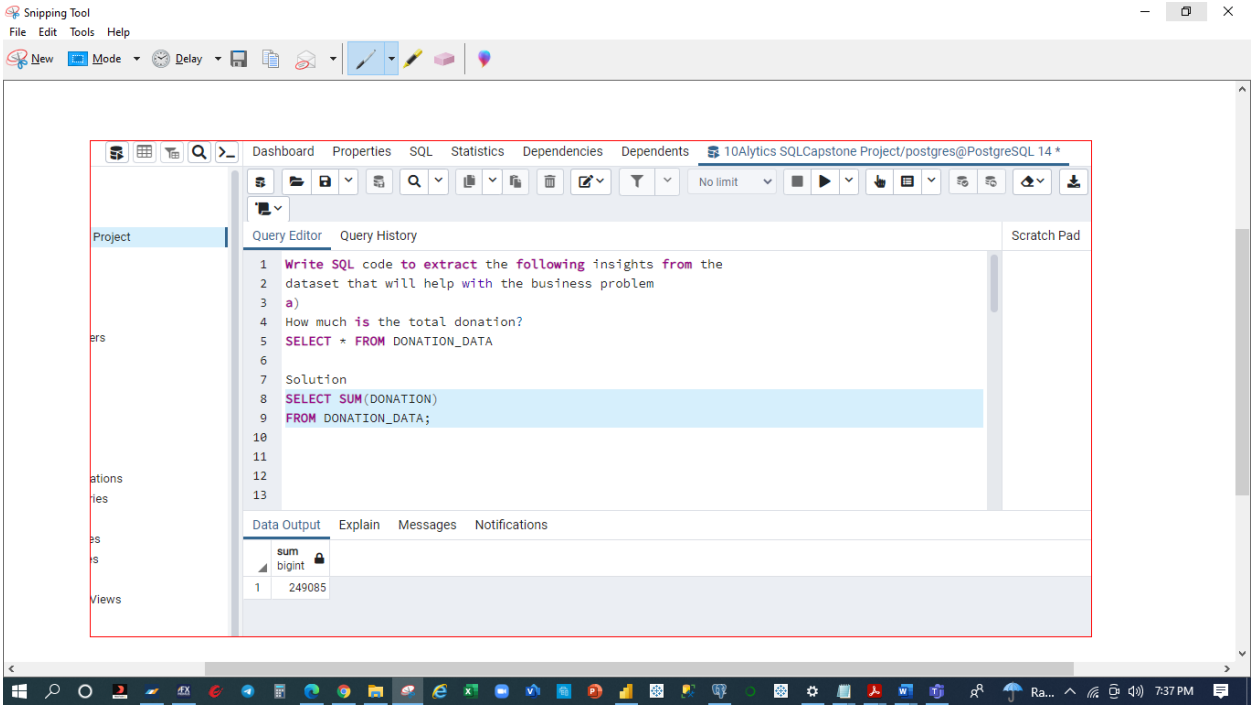
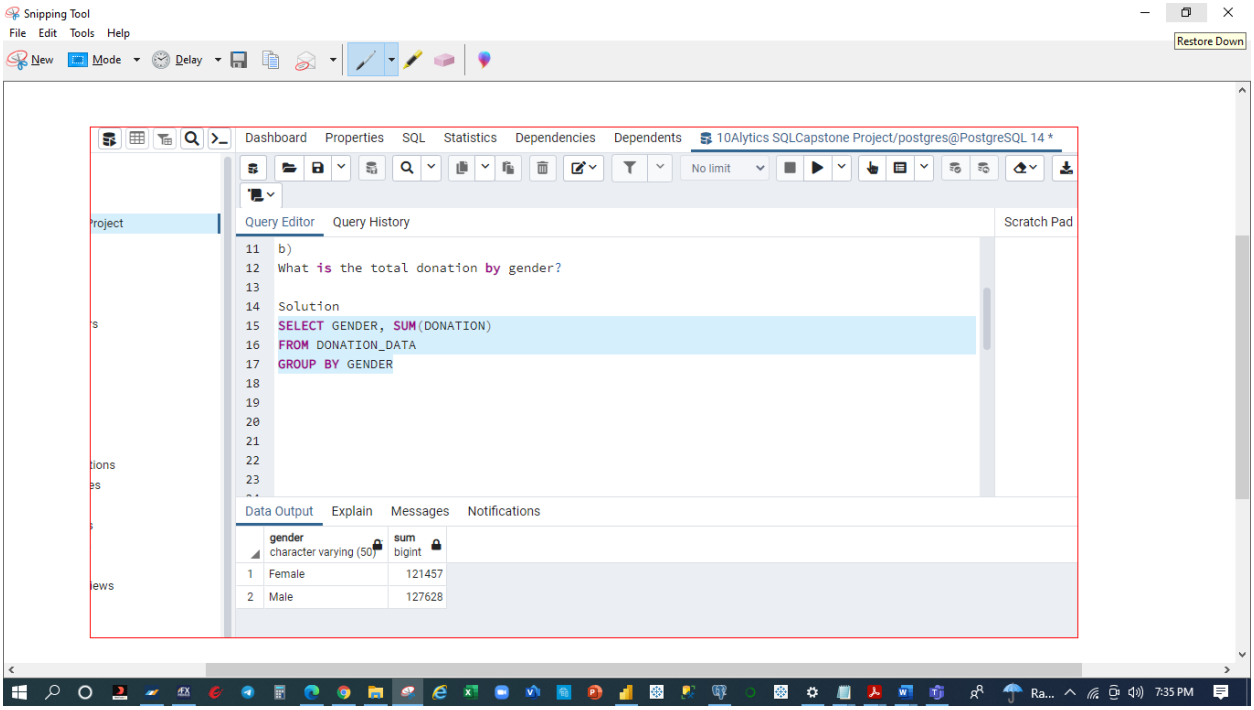
A


Snipping Tool
File Edit Tools Help
New Mode Delay
Dashboard Properties SQL Statistics Dependencies Dependents 10Alytics SQLCapstone Project/postgres@PostgreSQL 14 *
No limit
Query Editor Query History
Scratch Pad
1 Write SQL code to extract the following insights from the
2 dataset that will help with the business problem
3 a)
4 How much is the total donation?
5 SELECT * FROM DONATION_DATA
6
7 Solution
8 SELECT SUM(DONATION)
9 FROM DONATION_DATA;
Data Output Explain Messages Notifications
sum bigint
1 249085

B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File Edit Tools Help
New Mode Delay
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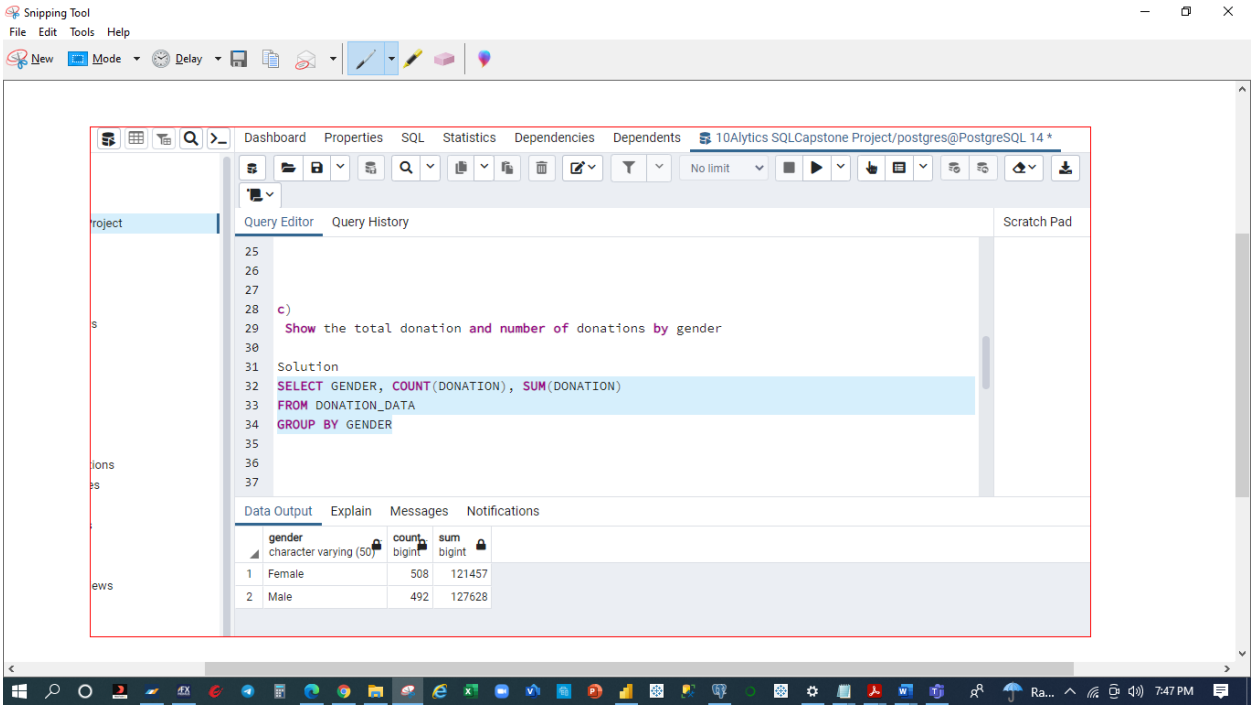
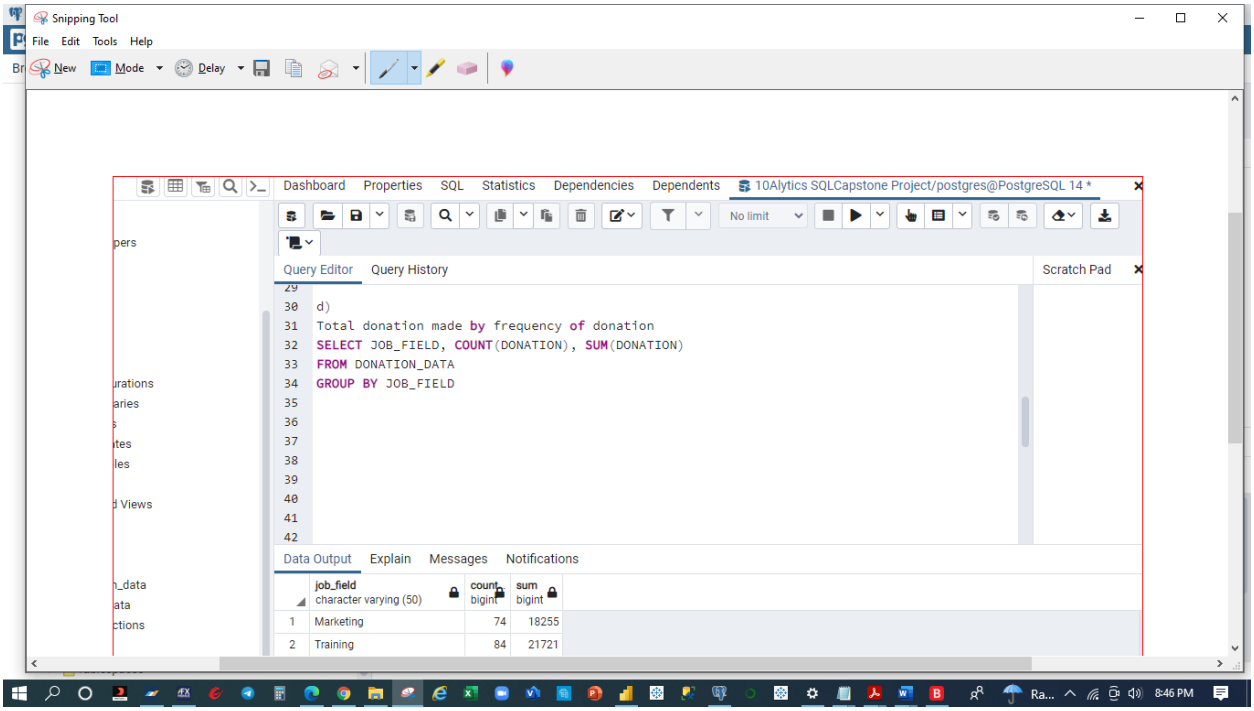
Dashboard Properties SQL Statistics Dependencies Dependents 10Alytics SQLCapstone Project/postgres@PostgreSQL 14 *
No limit
Query Editor Query History
Scratch Pad
11 b)
12 What is the total donation by gender?
13
14 Solution
15 SELECT GENDER, SUM(DONATION)
16 FROM DONATION_DATA
17 GROUP BY GENDER
Data Output Explain Messages Notifications
gender character varying (50)
sum bigint
1 Female 121457
2 Male 127628

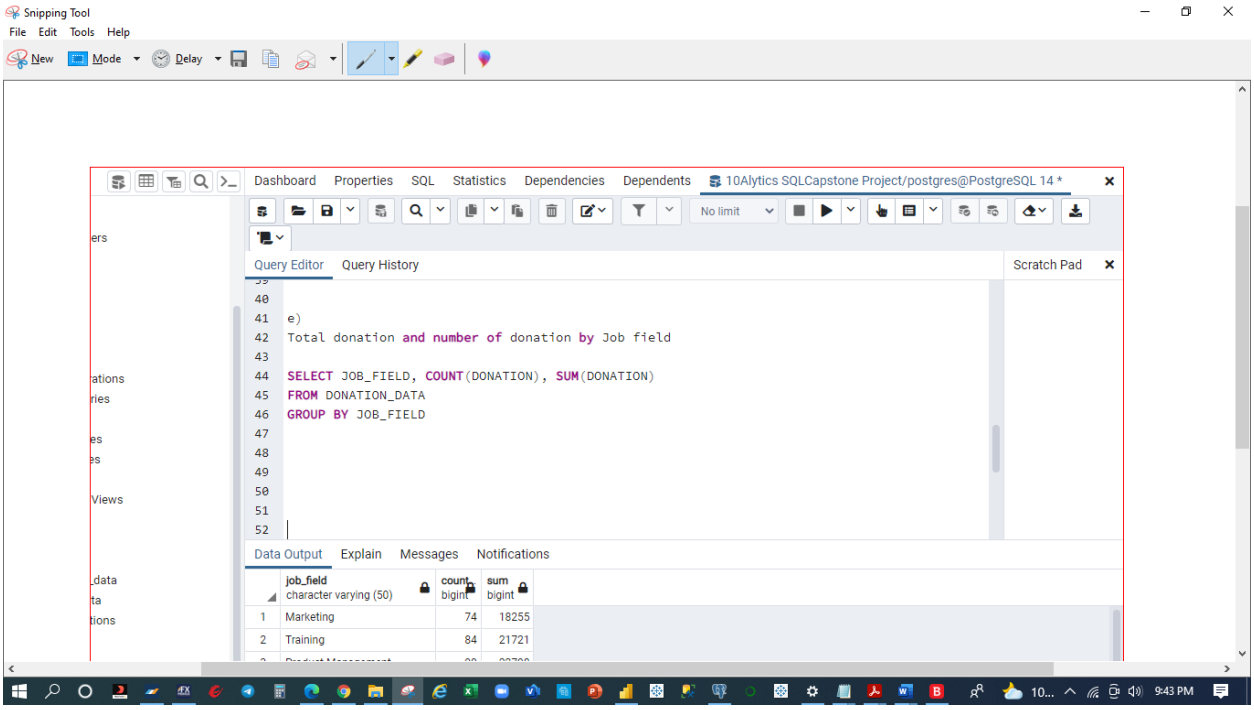
C


Snipping Tool
File Edit Tools Help
New Mode Delay
Dashboard Properties SQL Statistics Dependencies Dependents 10Alytics SQLCapstone Project/postgres@PostgreSQL 14 *
No limit
Query Editor Query History
Scratch Pad
c)
Show the total donation and number of donations by gender
Solution
SELECT GENDER, COUNT(DONATION), SUM(DONATION)
FROM DONATION_DATA
GROUP BY GENDER
Data Output Explain Messages Notifications
gender character varying (50)
count bigint
sum bigint
1 Female 508 121457
2 Male 492 127628
7:47 PM

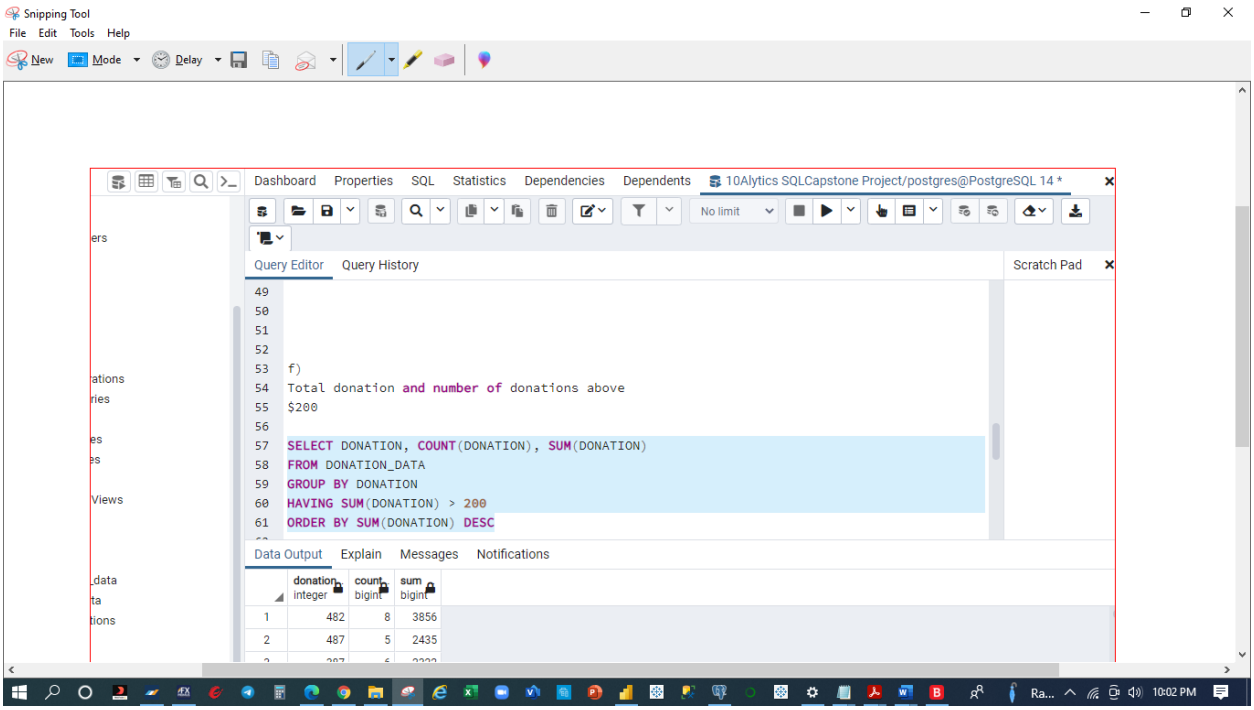
D


Snipping Tool
File Edit Tools Help
New Mode Delay
Dashboard Properties SQL Statistics Dependencies Dependents 10Alytics SQLCapstone Project/postgres@PostgreSQL 14 *
No limit
Query Editor Query History
Scratch Pad
d)
Total donation made by frequency of donation
SELECT JOB_FIELD, COUNT(DONATION), SUM(DONATION)
FROM DONATION_DATA
GROUP BY JOB_FIELD
Data Output Explain Messages Notifications
job_field character varying (50)
count bigint
sum bigint
1 Marketing 74 18255
2 Training 84 21721
8:46 PM

E


Snipping Tool
File Edit Tools Help
New Mode Delay
Dashboard Properties SQL Statistics Dependencies Dependents 10Alytics SQLCapstone Project/postgres@PostgreSQL 14 *
No limit
Query Editor Query History
Scratch Pad
e)
Total donation and number of donation by Job field
SELECT JOB_FIELD, COUNT(DONATION), SUM(DONATION)
FROM DONATION_DATA
GROUP BY JOB_FIELD
Data Output Explain Messages Notifications
job_field character varying (50)
count bigint
sum bigint
1 Marketing 74 18255
2 Training 84 21721
9:43 PM

(F)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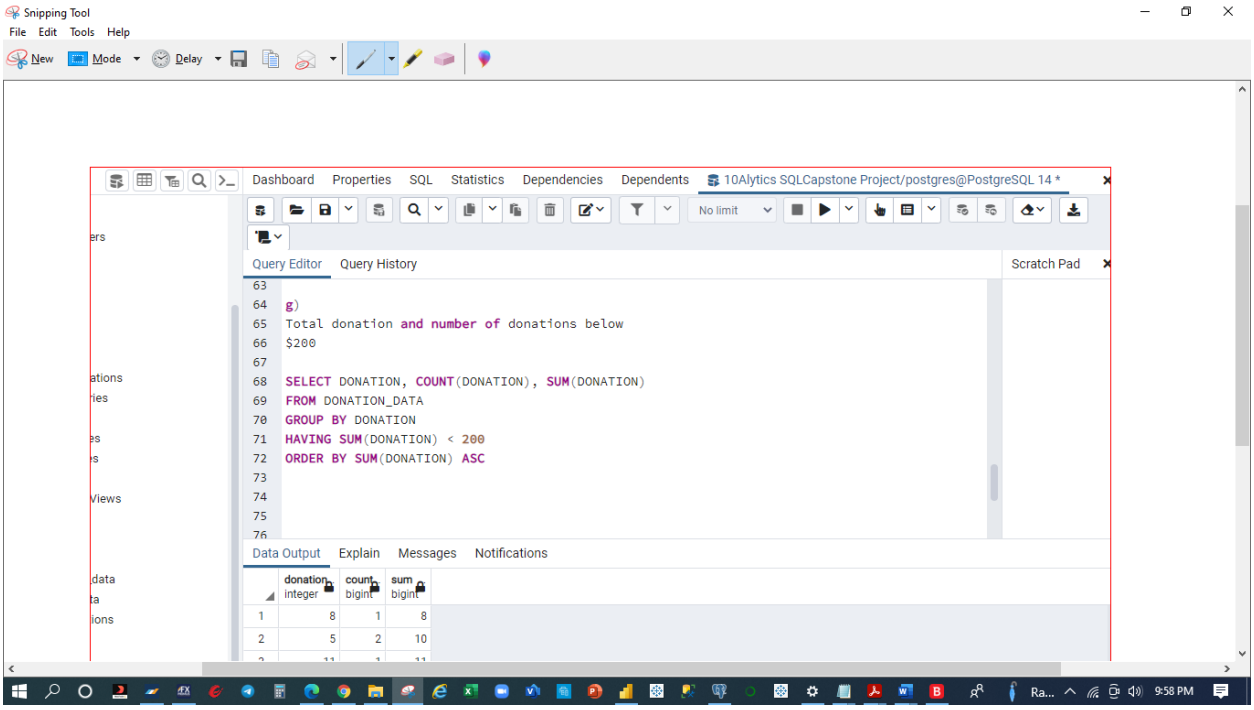
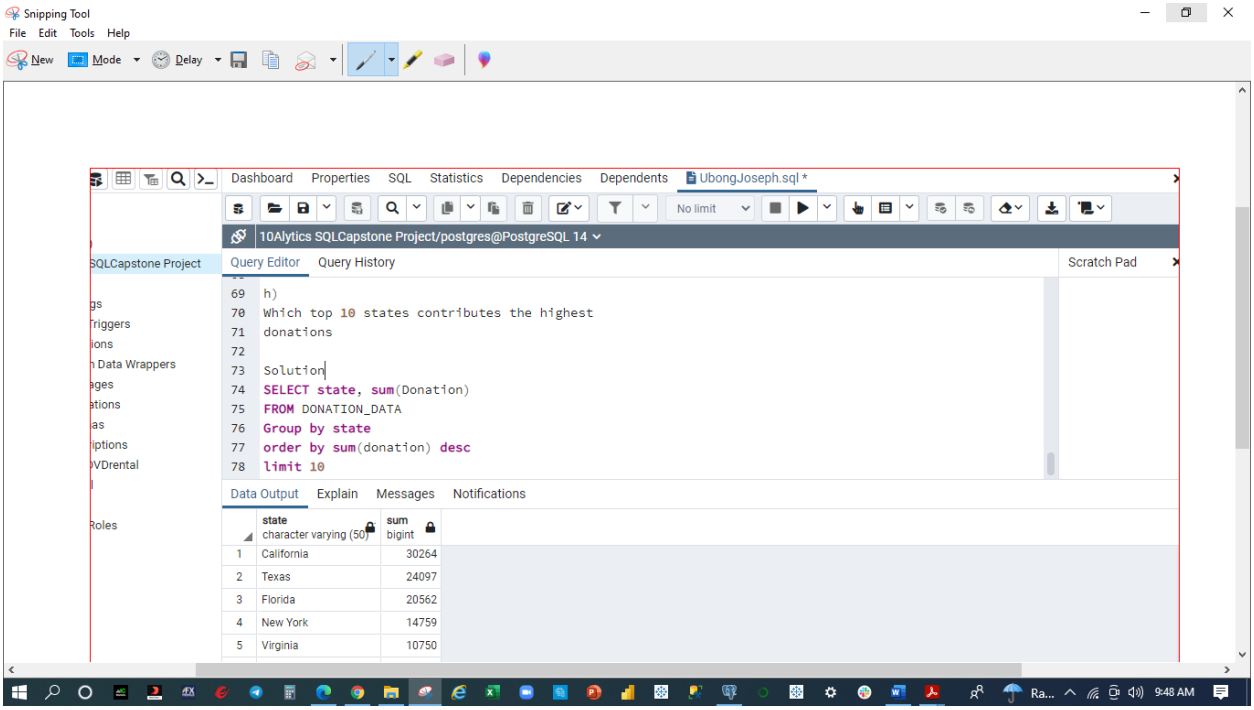
File Edit Tools Help
New Mode Delay
Dashboard Properties SQL Statistics Dependencies Dependents 10Alytics SQLCapstone Project/postgres@PostgreSQL 14 *
No limit
Query Editor Query History
Scratch Pad
f)
Total donation and number of donations above
$200
SELECT DONATION, COUNT(DONATION), SUM(DONATION)
FROM DONATION_DATA
GROUP BY DONATION
HAVING SUM(DONATION) > 200
ORDER BY SUM(DONATION) DESC
Data Output Explain Messages Notifications
donation integer
count bigint
sum bigint
1 482 8 3856
2 487 5 2435
10:02 PM

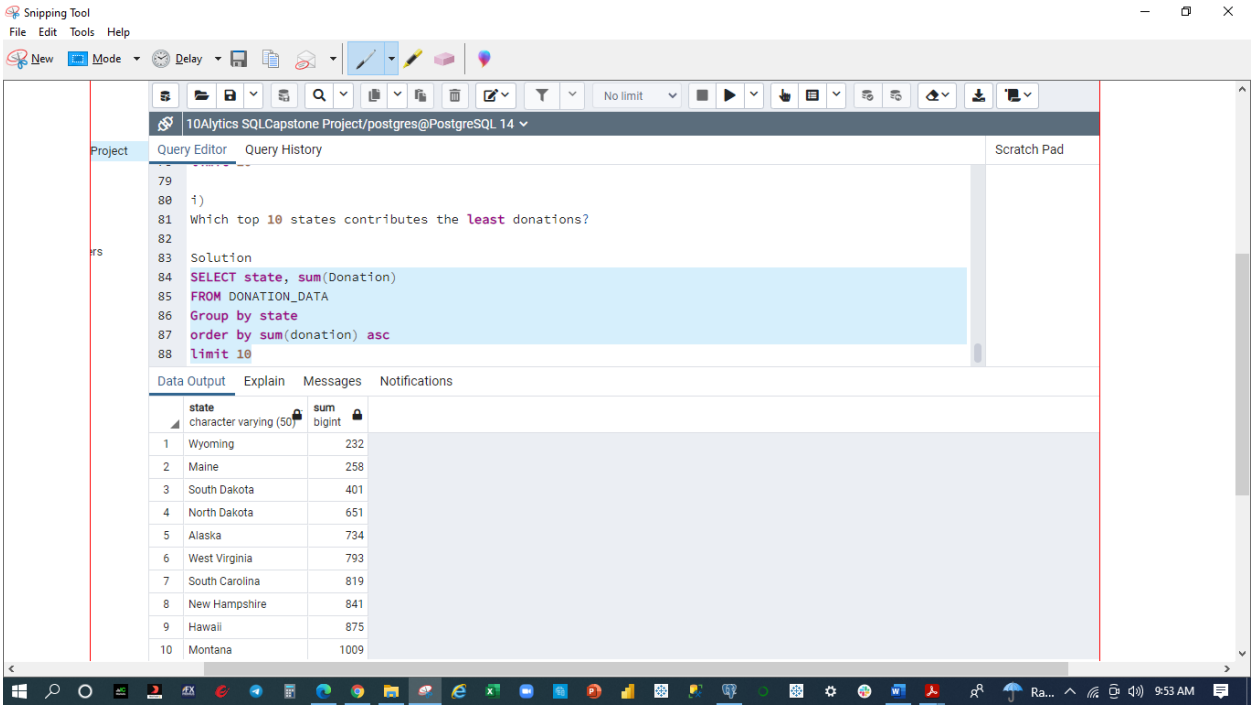
(G)


Snipping Tool
File Edit Tools Help
New Mode Delay
Dashboard Properties SQL Statistics Dependencies Dependents 10Alytics SQLCapstone Project/postgres@PostgreSQL 14 *
No limit
Query Editor Query History
Scratch Pad
63
64 g)
65 Total donation and number of donations below
66 $200
67
68 SELECT DONATION, COUNT(DONATION), SUM(DONATION)
69 FROM DONATION_DATA
70 GROUP BY DONATION
71 HAVING SUM(DONATION) < 200
72 ORDER BY SUM(DONATION) ASC
73
74
75
76
Data Output Explain Messages Notifications
donation integer
count bigint
sum bigint
1 8 1 8
2 5 2 10
9:58 PM

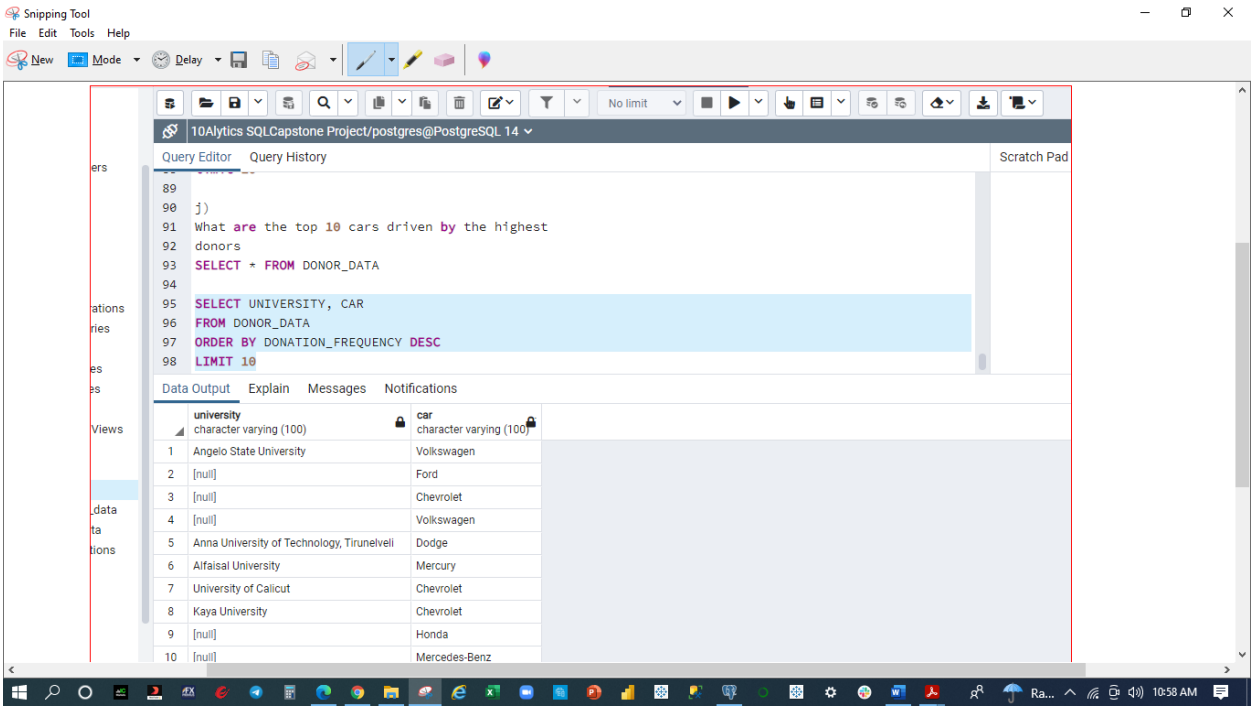
(H)


Snipping Tool
File Edit Tools Help
New Mode Delay
Dashboard Properties SQL Statistics Dependencies Dependents UbongJoseph.sql *
No limit
10Alytics SQLCapstone Project/postgres@PostgreSQL 14
Query Editor Query History
Scratch Pad
69 h)
70 Which top 10 states contributes the highest
71 donations
72
73 Solution
74 SELECT state, sum(Donation)
75 FROM DONATION_DATA
76 Group by state
77 order by sum(donation) desc
78 limit 10
Data Output Explain Messages Notifications
state character varying (50)
sum bigint
1 California 30264
2 Texas 24097
3 Florida 20562
4 New York 14759
5 Virginia 10750
9:48 AM

(I)


Snipping Tool
File Edit Tools Help
New Mode Delay
10Alytics SQLCapstone Project/postgres@PostgreSQL 14
Query Editor Query History
Scratch Pad
79
80 i)
81 Which top 10 states contributes the least donations?
82
83 Solution
84 SELECT state, sum(Donation)
85 FROM DONATION_DATA
86 Group by state
87 order by sum(donation) asc
88 limit 10
Data Output Explain Messages Notifications
state character varying (50)
sum bigint
1 Wyoming 232
2 Maine 258
3 South Dakota 401
4 North Dakota 651
5 Alaska 734
6 West Virginia 793
7 South Carolina 819
8 New Hampshire 841
9 Hawaii 875
10 Montana 1009
9:53 AM

(J)


Snipping Tool
File Edit Tools Help
New Mode Delay
10Alytics SQLCapstone Project/postgres@PostgreSQL 14
Query Editor Query History
Scratch Pad
89
90 j)
91 What are the top 10 cars driven by the highest
92 donors
93 SELECT * FROM DONOR_DATA
94
95 SELECT UNIVERSITY, CAR
96 FROM DONOR_DATA
97 ORDER BY DONATION_FREQUENCY DESC
98 LIMIT 10
Data Output Explain Messages Notifications
university character varying (100)
car character varying (100)
1 Angelo State University Volkswagen
2 [null] Ford
3 [null] Chevrolet
4 [null] Volkswagen
5 Anna University of Technology, Tirunelveli Dodge
6 Alfaisal University Mercury
7 University of Calicut Chevrolet
8 Kaya University Chevrolet
9 [null] Honda
10 [null] Mercedes-Benz
10:58 AM

RECOMMENDATIONS:

- Increase the number of donors in your database
    1. It might be helpful to categorise our donors to enable us identify peculiar characteristics of each donor class for marketing efforts

- Increase the donation frequency of your donors.
    There may be need to expand payment/donation channels to each transfer of donations by each donor category
- Increase the value of donations in your database
    We need to continue proper management of our Top 10 donors; especially those who drive the Volkswagen and Mercury car brands