

A

Snipping Tool

File Edit Tools Help

New Mode Delay

10Analytics SQLCapstone Project/postgres@PostgreSQL 14 *

Dashboard Properties SQL Statistics Dependencies Dependents

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;
10
11
12
13

```

Data Output Explain Messages Notifications

	sum	bigint
1	249085	

Windows taskbar: 7:37 PM

B

Snipping Tool

File Edit Tools Help

New Mode Delay

10Analytics SQLCapstone Project/postgres@PostgreSQL 14 *

Dashboard Properties SQL Statistics Dependencies Dependents

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
18
19
20
21
22
23

```

Data Output Explain Messages Notifications

	gender	sum	sum
	character varying (50)	bigint	bigint
1	Female	121457	
2	Male	127628	

Windows taskbar: 7:35 PM

C

The screenshot shows a SQL IDE window titled "10Analytics SQLCapstone Project/postgres@PostgreSQL 14 *". The interface includes a sidebar with a tree view, a top toolbar, and a main workspace. The workspace is divided into a "Query Editor" and a "Data Output" pane. The "Query Editor" contains the following SQL query:

```

25
26
27
28 c)
29 Show the total donation and number of donations by gender
30
31 Solution
32 SELECT GENDER, COUNT(DONATION), SUM(DONATION)
33 FROM DONATION_DATA
34 GROUP BY GENDER
35
36
37
  
```

The "Data Output" pane displays the results of the query in a table format:

gender	count	sum
character varying (50)	bigint	bigint
1 Female	508	121457
2 Male	492	127628

The bottom of the window shows a Windows taskbar with various application icons and a system clock indicating 7:47 PM.

D

The screenshot shows a SQL IDE window titled "10Analytics SQLCapstone Project/postgres@PostgreSQL 14 *". The interface is similar to the previous one, with a "Query Editor" and a "Data Output" pane. The "Query Editor" contains the following SQL query:

```

29
30 d)
31 Total donation made by frequency of donation
32 SELECT JOB_FIELD, COUNT(DONATION), SUM(DONATION)
33 FROM DONATION_DATA
34 GROUP BY JOB_FIELD
35
36
37
38
39
40
41
42
  
```

The "Data Output" pane displays the results of the query in a table format:

job_field	count	sum
character varying (50)	bigint	bigint
1 Marketing	74	18255
2 Training	84	21721

The bottom of the window shows a Windows taskbar with various application icons and a system clock indicating 8:46 PM.

E

Snipping Tool

File Edit Tools Help

New Mode Delay

10Analytics SQLCapstone Project/postgres@PostgreSQL 14 *

Dashboard Properties SQL Statistics Dependencies Dependents

Query Editor Query History Scratch Pad

```
40
41 e)
42 Total donation and number of donation by Job field
43
44 SELECT JOB_FIELD, COUNT(DONATION), SUM(DONATION)
45 FROM DONATION_DATA
46 GROUP BY JOB_FIELD
47
48
49
50
51
52
```

Data Output Explain Messages Notifications

	job_field character varying (50)	count bigint	sum bigint
1	Marketing	74	18255
2	Training	84	21721
3	Product Management	60	20300

Windows taskbar: 9:43 PM

(F)

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File Edit Tools Help

New Mode Delay

10Analytics SQLCapstone Project/postgres@PostgreSQL 14 *

Dashboard Properties SQL Statistics Dependencies Dependents

Query Editor Query History Scratch Pad

```
49
50
51
52
53 f)
54 Total donation and number of donations above
55 $200
56
57 SELECT DONATION, COUNT(DONATION), SUM(DONATION)
58 FROM DONATION_DATA
59 GROUP BY DONATION
60 HAVING SUM(DONATION) > 200
61 ORDER BY SUM(DONATION) DESC
62
```

Data Output Explain Messages Notifications

	donation integer	count bigint	sum bigint
1	482	8	3856
2	487	5	2435
3	307	6	2222

Windows taskbar: 10:02 PM

(G)

Snipping Tool

File Edit Tools Help

New Mode Delay

10Alytics SQLCapstone Project/postgres@PostgreSQL 14 *

Dashboard Properties SQL Statistics Dependencies Dependents

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	count	sum
integer	bigint	bigint
1	8	1
2	5	2

Windows taskbar: 9:58 PM

(H)

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File Edit Tools Help

New Mode Delay

UbongJoseph.sql *

Dashboard Properties SQL Statistics Dependencies Dependents

10Alytics SQLCapstone Project/postgres@PostgreSQL 14 *

SQLCapstone Project 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	sum
character varying (50)	bigint
1 California	30264
2 Texas	24097
3 Florida	20562
4 New York	14759
5 Virginia	10750

Windows taskbar: 9:48 AM

(I)

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File Edit Tools Help

New Mode Delay

10Analytics SQLCapstone Project/postgres@PostgreSQL 14

Project Query Editor Query History Scratch Pad

```
79
80 }
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	sum
character varying (50)	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

Windows taskbar: 9:53 AM

(J)

Snipping Tool
File Edit Tools Help

New Mode Delay

10Analytics SQLCapstone Project/postgres@PostgreSQL 14

Query Editor Query History Scratch Pad

```
89
90 }
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	car
character varying (100)	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

Windows taskbar: 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