

# Fundraising

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Capstone.sql\* X

Donation\_data/postgres@PostgreSQL 16

Query Query History Scratch Pad X

```
1 SELECT * FROM donation_data;
2 SELECT * FROM donor_data;
3
4 -- How much is the total donation?
5 SELECT CONCAT('$', SUM(donation)) AS "Total Donation"
6 FROM donation_data;
7
8 -- What is the total donation by gender?
9 SELECT gender, SUM(donation) AS "Total Donation"
10 FROM donation_data
11 GROUP BY gender;
12
13 -- Show the total donation and number of donations by gender
14 SELECT gender, SUM(donation) AS "Total Donation",
15 COUNT(donation) AS "Numbers of Donation"
16 FROM donation_data
17 GROUP BY gender;
18
19 -- Total donation made by frequency of donation
20 SELECT d.donation_frequency, COUNT(c.donation) AS "Numbers of Donation"
21 FROM donation_data c
22 JOIN donor_data d ON c.id=d.id
23 GROUP BY d.donation_frequency;
24
25 -- Total donation and number of donation by Job field
26 SELECT job_field, SUM(donation) AS "Total Donation",
27 COUNT(donation) AS "Numbers of Donation"
28 FROM donation_data
29 GROUP BY job_field;
```

Data Output Messages Notifications

Total Donation	
text	
1	\$249085

Total rows: 1 of 1 Query complete 00:00:00.195 Ln 10, Col 20

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Capstone.sql\* X

Donation\_data/postgres@PostgreSQL 16

Query Query History Scratch Pad X

```
25 -- Total donation and number of donation by Job field
26 SELECT job_field, SUM(donation) AS "Total Donation",
27 COUNT(donation) AS "Numbers of Donation"
28 FROM donation_data
29 GROUP BY job_field
30 ORDER BY "Total Donation" DESC;
31
32 -- Total donation and number of donations above $200
33 SELECT
34 SUM(donation) AS "Total Donation", |
35 COUNT(*) AS "Number of Donations Above $200"
36 FROM
37 donation_data
38 WHERE
39 donation > 200;
40
```

Data Output Messages Notifications

job_field character varying (50)	Total Donation bigint	Numbers of Donation bigint
1 Human Resources	23060	93
2 Research and Development	22862	84
3 Product Management	22798	90
4 Business Development	22266	94
5 Engineering	21968	93
6 Training	21721	84
7 Accounting	20504	80
8 Services	19858	80
9 Support	19475	79
10 Sales	19009	83
11 Marketing	18255	74
12 Legal	17309	66

Total rows: 12 of 12 Query complete 00:00:00.084 Ln 34, Col 40

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Capstone.sql\* X

Donation\_data/postgres@PostgreSQL 16

Query Query History

```

49
50 --Which top 10 states contributes the highest donations
51 SELECT state, SUM(donation) AS "Total Donation"
52 FROM donation_data
53 GROUP BY state
54 ORDER BY "Total Donation" DESC
55 LIMIT 10;
56
57 -- Which top 10 states contributes the least donations
58 SELECT state, SUM(donation) AS "Total Donation"
59 FROM donation_data
60 GROUP BY state
61 ORDER BY "Total Donation"
62 LIMIT 10;
63
64 -- What are the top 10 cars driven by the highest donors

```

Data Output Messages Notifications

	state	Total Donation
	character varying (50)	bigint
1	California	30264
2	Texas	24097
3	Florida	20562
4	New York	14759
5	Virginia	10750
6	Illinois	8674
7	District of Columbia	8376
8	Tennessee	8316
9	Georgia	8046
10	Ohio	6876

Total rows: 10 of 10 Query complete 00:00:00.214 Ln 50, Col 1

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Capstone.sql\* X

Donation\_data/postgres@PostgreSQL 16

Query Query History

```

63
64 -- What are the top 10 cars driven by the highest donors
65 SELECT d.first_name, d.last_name, d.donation, c.car
66 FROM donation_data d
67 JOIN donor_data c ON d.id=c.id
68 ORDER BY donation DESC
69 LIMIT 10;
70
71 -- Average Total donation and number of donation by Job field
72 SELECT job_field, AVG(donation) AS "AVG Total Donation",
73 COUNT(donation) AS "Numbers of Donation"
74 FROM donation_data
75 GROUP BY job_field
76 ORDER BY "AVG Total Donation" DESC;
77
78 -- What is the Average total donation by gender?

```

Data Output Messages Notifications

	first_name	last_name	donation	car
	character varying (50)	character varying (50)	integer	character varying (150)
1	Beverlie	Andriess	500	Ford
2	Wallie	Leather	500	Lexus
3	Peder	Rilton	499	Mazda
4	Clevie	Camilletti	499	Buick
5	Worthy	Le feaver	498	MINI
6	Amalea	Knill	497	Hyundai
7	Corbett	Lansdale	494	Dodge
8	Nathaniel	McGenn	494	GMC
9	Tonnie	Stockney	494	Chevrolet
10	Corbin	Rawne	493	Mercedes-Benz

Total rows: 10 of 10 Query complete 00:00:00.081 Ln 76, Col 36

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Capstone.sql\* X

Donation\_data/postgres@PostgreSQL 16

Query Query History

```

67 FROM donation_data d
68 JOIN donor_data c ON d.id=c.id
69 ORDER BY donation DESC
70 LIMIT 10;
71
72 -- Average Total donation and number of donation by Job field
73 SELECT job_field, AVG(donation) AS "AVG Total Donation",
74 COUNT(donation) AS "Numbers of Donation"
75 FROM donation_data
76 GROUP BY job_field
77 ORDER BY "AVG Total Donation" DESC;
78
79 -- What is the Average total donation by gender?
80 SELECT gender, AVG(donation) AS "AVG Total Donation"
81 FROM donation_data
82 GROUP BY gender;

```

Data Output Messages Notifications

	gender	AVG Total Donation
	character varying (50)	numeric
1	Female	239.0885826771653543
2	Male	259.4065040650406504

Successfully run. Total query runtime: 178 msec. 2 rows affected. X

Total rows: 2 of 2 Query complete 00:00:00.178 Ln 81, Col 17

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Donation\_data/postgres@PostgreSQL 16

Query Query History

```

75 FROM donation_data
76 GROUP BY job_field
77 ORDER BY "AVG Total Donation" DESC;
78
79 -- What is the Average total donation by gender?
80 SELECT gender, AVG(donation) AS "AVG Total Donation"
81 FROM donation_data
82 GROUP BY gender;
83
84 -- Total donation made by frequency of donation and by gender
85 SELECT d.donation_frequency,
86 COUNT(c.donation) AS "Numbers of Donation", SUM(c.donation) AS "Total Donation"
87 FROM donation_data c
88 JOIN donor_data d ON c.id=d.id
89 GROUP BY d.donation_frequency
90 ORDER BY "Total Donation" DESC;

```

Data Output Messages Notifications

	donation_frequency	Numbers of Donation	Total Donation
	character varying (150)	bigint	bigint
1	Yearly	135	35266
2	Never	133	34263
3	Once	128	32666
4	Weekly	129	31645
5	Seldom	118	30650
6	Daily	128	29249
7	Often	111	28476
8	Monthly	118	26870

Total rows: 8 of 8 Query complete 00:00:00.197 Ln 89, Col 32

Recommendation

1. From the data it shows we have less men but get more donations from them, so if we are looking to get more money we should get more men to join this cause.
2. It shows most people donate yearly which also gives us the most donation.
3. Most of the donations comes from California, Texas, Florida, New York and Virginia it shows most people in this states are interested in this cause,
4. From the data the highest donation per person is \$500, In the above 4 states listed we can use a minimum of \$200 for them to pay sice most people are interested in the fundraising.