Education for All Fundraising

SQL – CAPSTONE

BY

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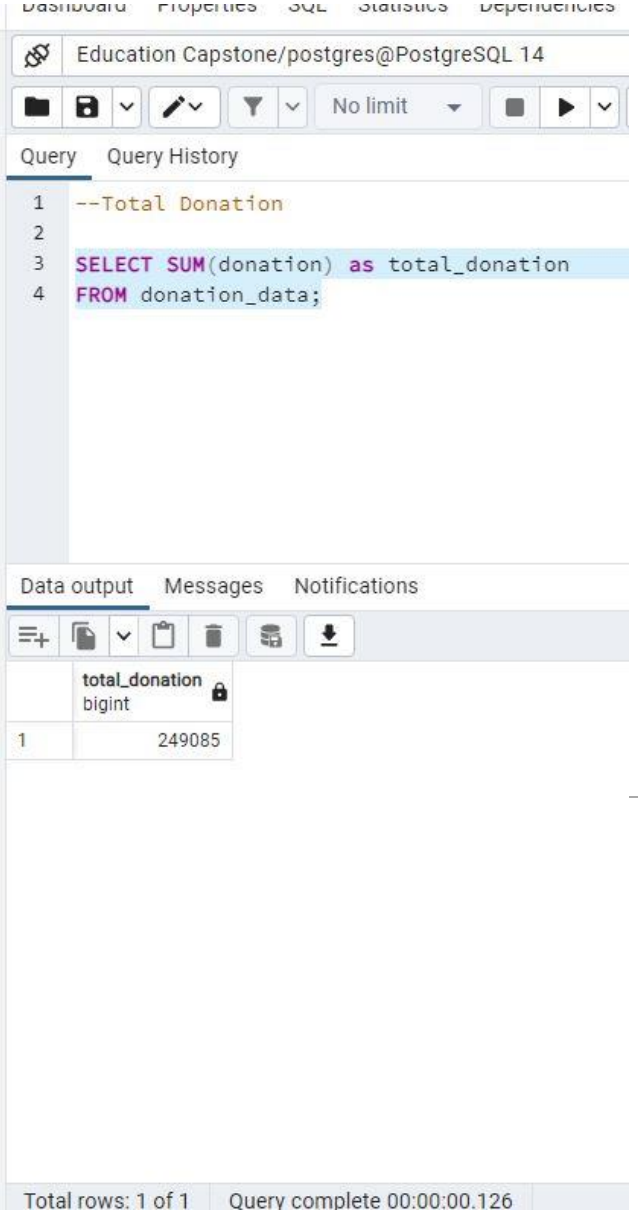
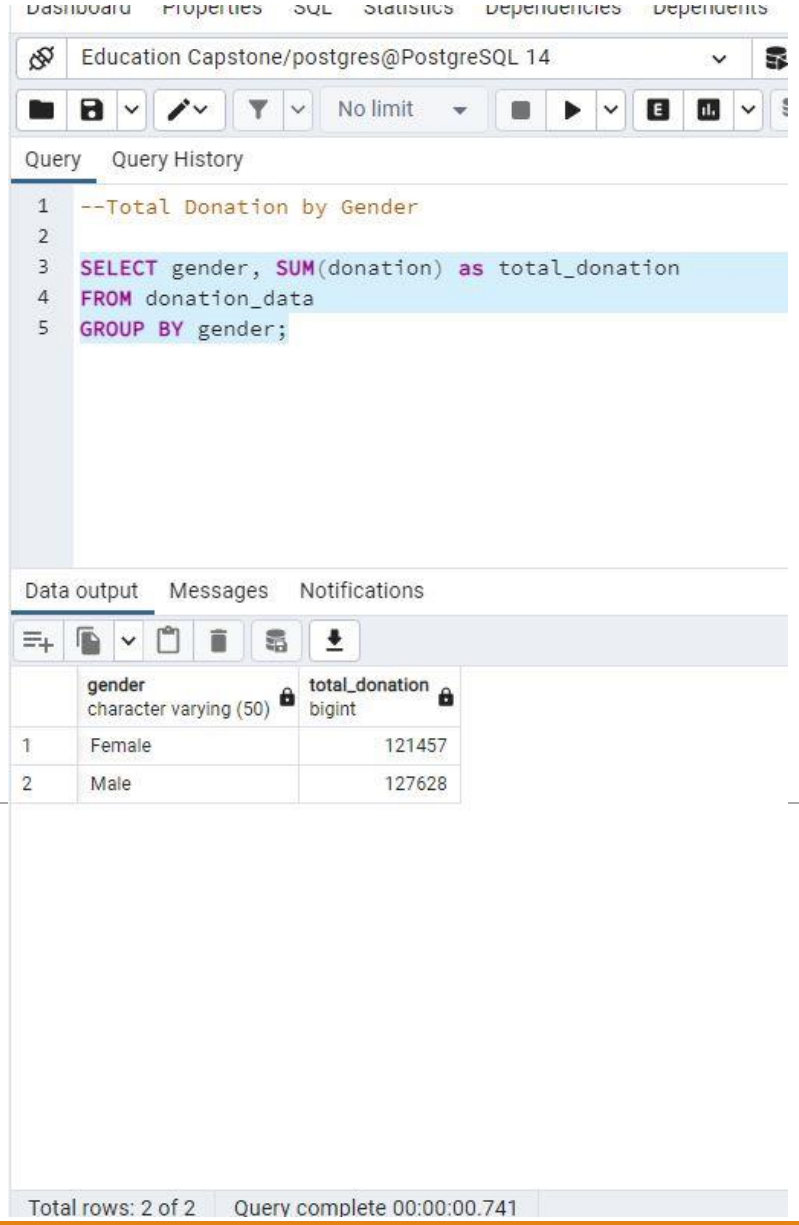
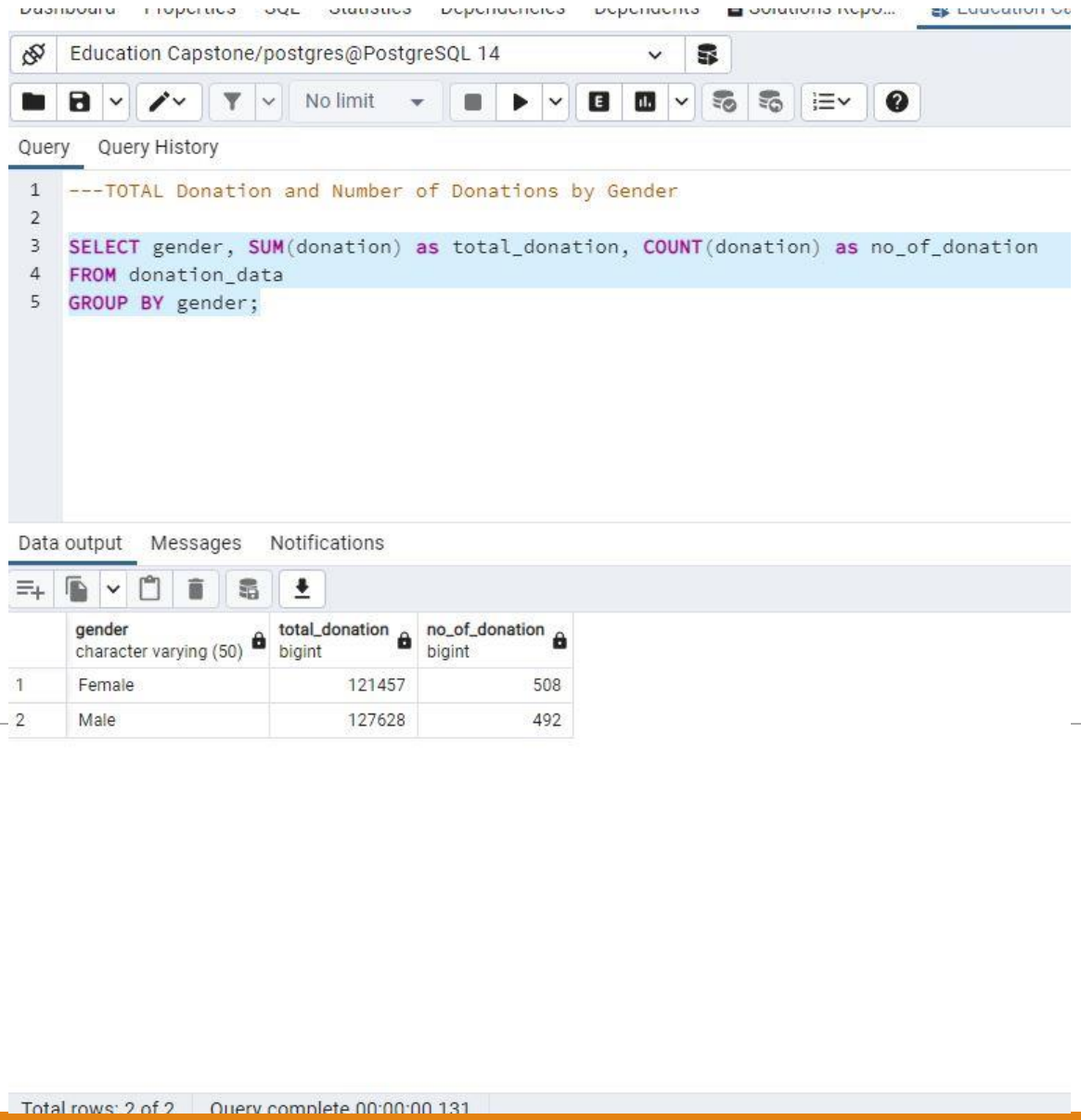
Question 1


Education Capstone/postgres@PostgreSQL 14
No limit
Query
Query History
1 --Total Donation
2
3 SELECT SUM(donation) as total_donation
4 FROM donation_data;
Data output
Messages
Notifications
total_donation
bigint
1
249085
Total rows: 1 of 1
Query complete 00:00:00.126

Question 2


Dashboard Properties SQL Statistics Dependencies Dependents
Education Capstone/postgres@PostgreSQL 14
No limit
Query
Query History
1 --Total Donation by Gender
2
3 SELECT gender, SUM(donation) as total_donation
4 FROM donation_data
5 GROUP BY gender;
Data output
Messages
Notifications
gender
character varying (50)
total_donation
bigint
1 Female 121457
2 Male 127628
Total rows: 2 of 2
Query complete 00:00:00.741

Question 3


Education Capstone/postgres@PostgreSQL 14
No limit
Query
Query History
1 ---TOTAL Donation and Number of Donations by Gender
2
3 SELECT gender, SUM(donation) as total_donation, COUNT(donation) as no_of_donation
4 FROM donation_data
5 GROUP BY gender;
Data output
Messages
Notifications
gender character varying (50)
total_donation bigint
no_of_donation bigint
1 Female 121457 508
2 Male 127628 492
Total rows: 2 of 2
Query complete 00:00:00.131

Question 4

Dashboard Properties SQL Statistics Dependencies Dependents Education Capstone/p

Education Capstone/postgres@PostgreSQL 14

No limit

Query Query History

```
1  -- Total Donation made by frequency of donation
2
3  SELECT donation_frequency, SUM(donation_data.donation) as total_donation
4  FROM donor_data
5  JOIN donation_data ON donor_data.id = donation_data.id
6  GROUP BY donor_data.donation_frequency;
```

Data output Messages Notifications

	donation_frequency character varying (100)	total_donation bigint
1	Once	32666
2	Weekly	31645
3	Daily	29249
4	Yearly	35266
5	Seldom	30650
6	Monthly	26870
7	Often	28476
8	Never	34263

Total rows: 8 of 8 Query complete 00:00:00.224

Question 5

Education Capstone/postgres@PostgreSQL 14

No limit

Query | Query History

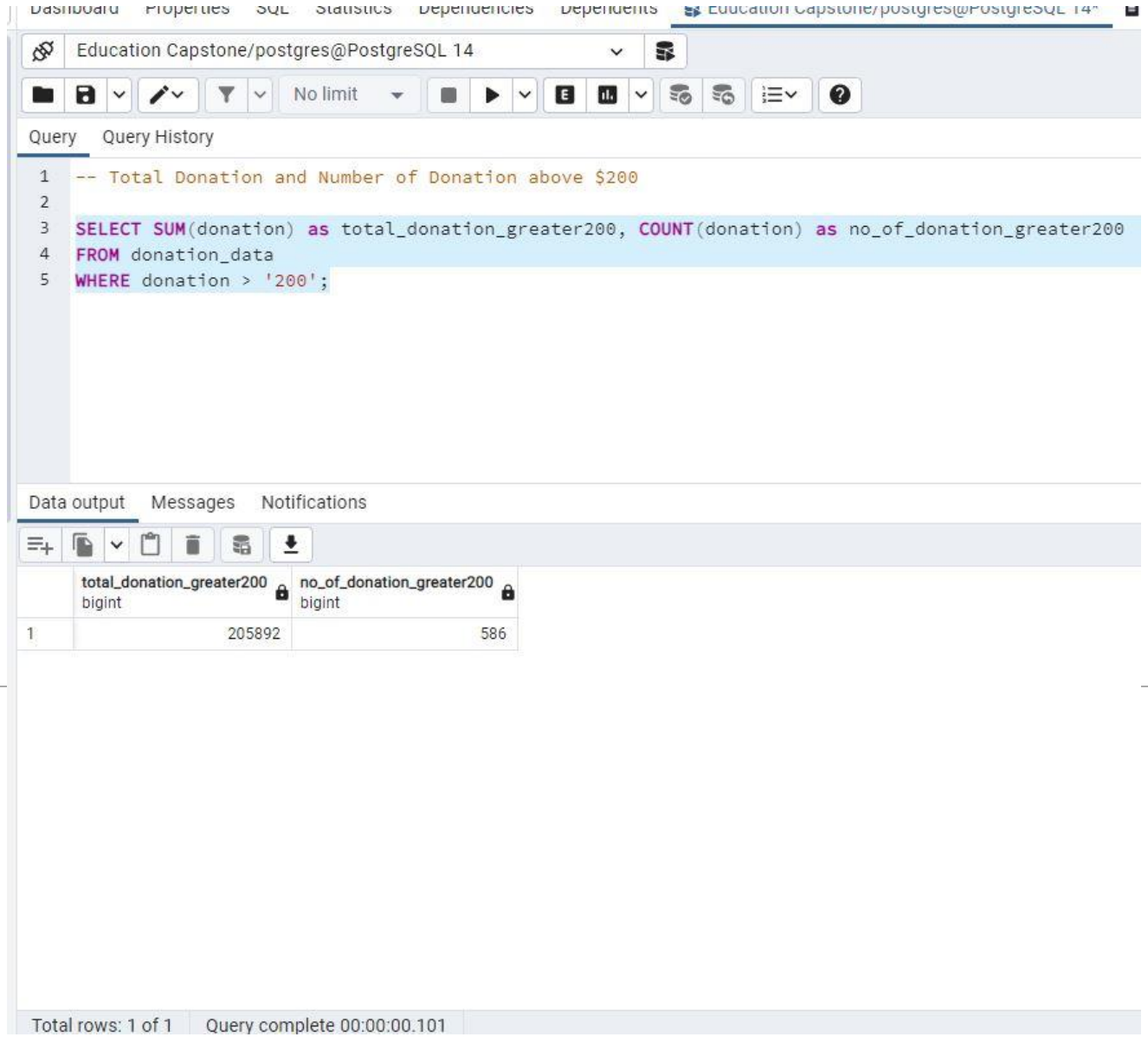
```
1  --Total DOnations and Number of Donation by Job Field
2
3  SELECT job_field, SUM(donation) as total_donation, COUNT(donation) as no_of_donation
4  FROM donation_data
5  GROUP BY job_field
6  ORDER BY job_field ASC;
```

Data output | Messages | Notifications

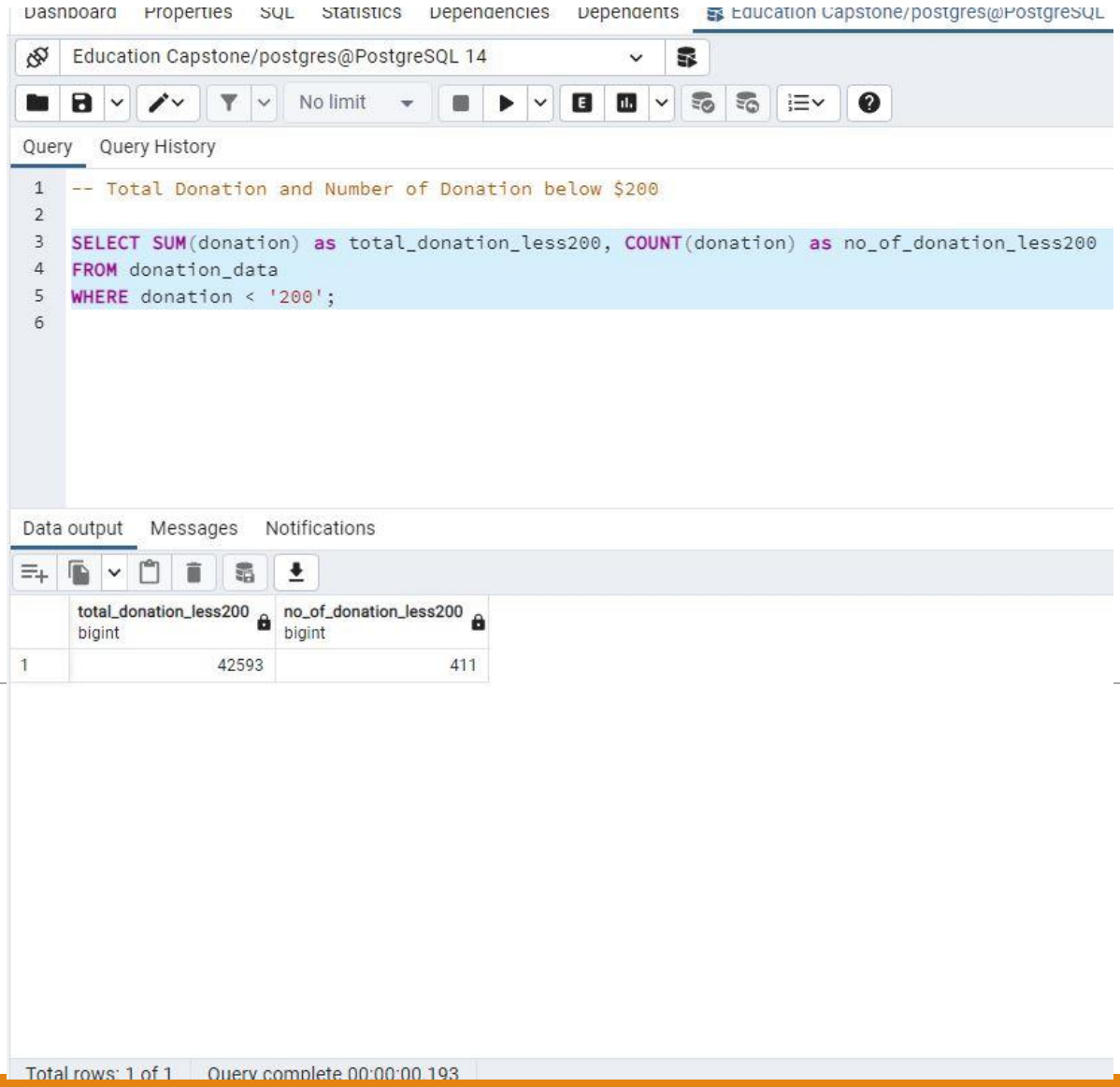
	job_field character varying (50)	total_donation bigint	no_of_donation bigint
1	Accounting	20504	80
2	Business Development	22266	94
3	Engineering	21968	93
4	Human Resources	23060	93
5	Legal	17309	66
6	Marketing	18255	74
7	Product Management	22798	90
8	Research and Develo...	22862	84
9	Sales	19009	83
10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

Total rows: 12 of 12 | Query complete 00:00:00.215

Question 6


Education Capstone/postgres@PostgreSQL 14
No limit
Query
Query History
1 -- Total Donation and Number of Donation above $200
2
3 SELECT SUM(donation) as total_donation_greater200, COUNT(donation) as no_of_donation_greater200
4 FROM donation_data
5 WHERE donation > '200';
Data output
Messages
Notifications
total_donation_greater200 bigint
no_of_donation_greater200 bigint
1 205892 586
Total rows: 1 of 1
Query complete 00:00:00.101

Question 7


Dashboard Properties SQL Statistics Dependencies Dependents Education Capstone/postgres@PostgreSQL
Education Capstone/postgres@PostgreSQL 14
No limit
Query Query History
1 -- Total Donation and Number of Donation below $200
2
3 SELECT SUM(donation) as total_donation_less200, COUNT(donation) as no_of_donation_less200
4 FROM donation_data
5 WHERE donation < '200';
6
Data output Messages Notifications
total_donation_less200 bigint
no_of_donation_less200 bigint
1 42593 411
Total rows: 1 of 1 Query complete 00:00:00.193

Question 8

Dashboard | Properties | SQL | Statistics | Dependencies | Dependents | Donation_Data.sql*

Education Capstone/postgres@PostgreSQL 14

No limit

Query | Query History

```
1  -- Top 10 States with the highest donations
2
3  SELECT DISTINCT donation_data.state, SUM(donation) AS highest_donation
4  FROM donation_data
5  GROUP BY state
6  ORDER BY highest_donation DESC, state ASC
7  LIMIT 10;
```

Data output | Messages | Notifications

	state character varying (50)	highest_donation 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 00:00:00.657

Question 9

Dashboard | Properties | SQL | Statistics | Dependencies | Dependents | Donation_Data.sql*

Education Capstone/postgres@PostgreSQL 14

No limit

Query | Query History

```
1  -- Top 10 States with the least donations
2
3  SELECT DISTINCT donation_data.state, SUM(donation) AS least_donation
4  FROM donation_data
5  GROUP BY state
6  ORDER BY least_donation ASC, state
7  LIMIT 10;
```

Data output | Messages | Notifications

	state character varying (50)	least_donation 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

Total rows: 10 of 10 | Query complete 00:00:00.264

Question 10

Dashboard Properties SQL Statistics Dependencies Dependents Donation_Data.sql*

Education Capstone/postgres@PostgreSQL 14

No limit

Query Query History

```
1  -- Top 10 Cars Driven by the highest donors
2
3  SELECT car, count(donation_data.donation) AS highest_donors
4  FROM donor_data
5  JOIN donation_data ON donor_data.id = donation_data.id
6  GROUP BY donor_data.car
7  ORDER BY highest_donors DESC
8  LIMIT 10;
```

Data output Messages Notifications

	car character varying (100)	highest_donors bigint
1	Ford	91
2	Chevrolet	78
3	Toyota	51
4	Mitsubishi	44
5	Pontiac	40
6	GMC	39
7	Mazda	37
8	Dodge	36
9	Mercedes-Benz	36
10	Volkswagen	36

Total rows: 10 of 10 Query complete 00:00:01.041

Insights:

- There should be more awareness and sensitization in low donation states and across other job fields, which are not on the database in order to increase the number of donors.

- Looking at the frequency of donation, we can deduce that those in the "Never", "Seldom", "Often" and "Once" Frequency can be persuaded to donate a lot more often by introducing them to a more fixed periodic option.

- Value of donation can be increased if more people who donate more than $200 can key in and also encourage those who donate less to increase their donation amount.