

Education For All

SQL 10ALYTICS PROJECT

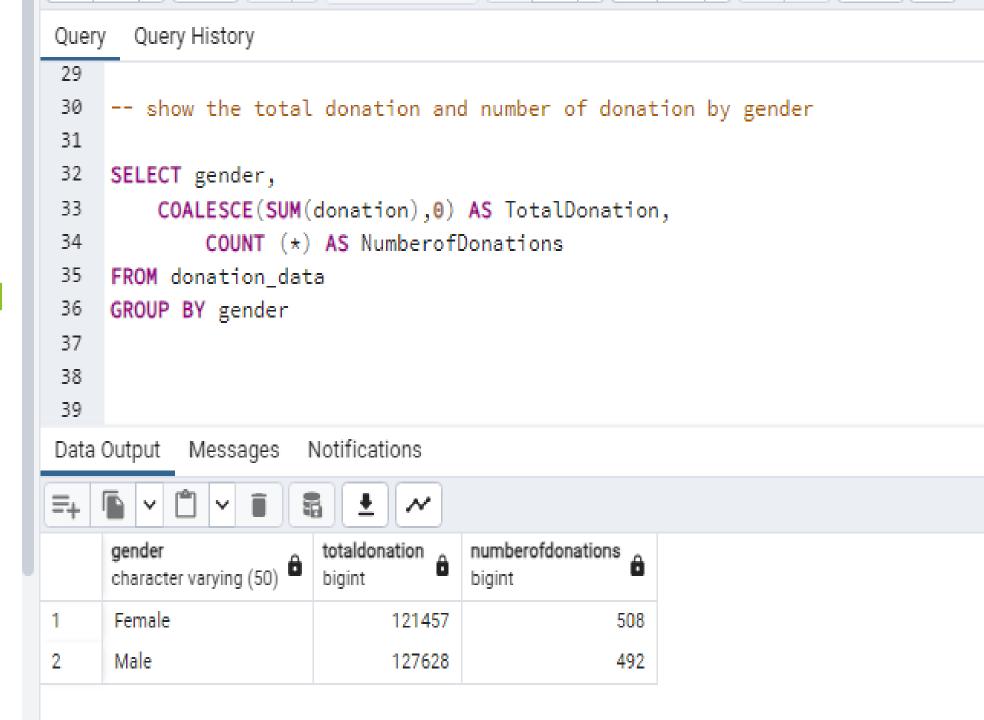
The Project Aims

- Boosting the frequency of donations from supporters
- Enhancing the monetary value of donations within the database
- Expanding the donor base in the database

Total sum of donate on in \$

```
Query History
Query
 4
    -- how much is the total donation
    SELECT
         COALESCE(SUM(donation), 0) AS TotalDonation
    FROM donation_data;
 9
10
11
12
Data Output Messages Graph Visualiser X Notifications
       v 🖺
                      8
     totaldonation
     bigint
           249085
```

The total donation in \$ and number of donation by gender



Total donation in \$ made by frequency of donation

```
Query History
Query
39
40
     -- Total donation made by frequency of donation
41
42
     SELECT
43
          d2.donation_frequency,
44
          COALESCE(SUM(d1.donation), 0) AS TotalDonation
45
     FROM donation data as d1
46
     JOIN donor data d2
47
     ON d1.id = d2.id
48
     GROUP BY d2.donation frequency
49
Data Output Messages
                        Notifications
=+
     donation_frequency
                           totaldonation
     character varying (100)
                           bigint.
      Once
                                   32666
     Weekly
                                   31645
3
      Daily
                                   29249
4
      Yearly
                                   35266
5
      Seldom
                                   30650
      Monthly
                                   26870
      Often
7
                                   28476
8
      Never
                                   34263
```

Total donation and The number donation in \$ by Job field

```
Query History
Query
      -- Total donatoin and number donation by job field
 51
 52
      SELECT d1.job field,
          COALESCE(SUM(d1.donation), 0) AS TotalDonation,
 53
 54
           COUNT(*) AS NumberOfDonations
 55
      FROM donation data d1
      JOIN donor data d2 ON d1.id = d2.id
 56
 57
      GROUP BY d1.job field
 58
      ORDER BY d1.job_field;
 59
Data Output Messages
                         Notifications
=+
                                    ~
                              totaldonation
      job_field
                                             numberofdonations
      character varving (50)
                              bigint
                                             bigint
      Accounting
                                      20504
                                                             80
      Business Development
2
                                      22266
                                                             94
3
      Engineering
                                      21968
                                                             93
4
      Human Resources
                                      23060
                                                             93
5
      Legal
                                      17309
                                                             66
      Marketing
                                      18255
                                                             74
6
      Product Management
                                      22798
                                                             90
8
      Research and Development
                                      22862
                                                             84
      Sales
                                      19009
                                                             83
9
10
      Services:
                                      19858
                                                             80
      Support
                                      19475
                                                             79
11
12
                                      21721
                                                             84
      Training
```

Total donation and the number of donation in \$ greater \$200

```
Query
       Query History
     -- Total donation and number of donation above $200
61
62
    SELECT
63
         COALESCE(SUM(d1.donation), 0) AS TotalDonation,
64
         COUNT(*) AS NumberOfDonations
    FROM donation_data d1
65
    JOIN donor_data d2 ON d1.id = d2.id
66
    WHERE d1.donation > 200;
67
68
Data Output
           Messages
                      Notifications
                               \sim
    totaldonation
                  numberofdonations
     bigint
                  bigint
           205892
                               586
```

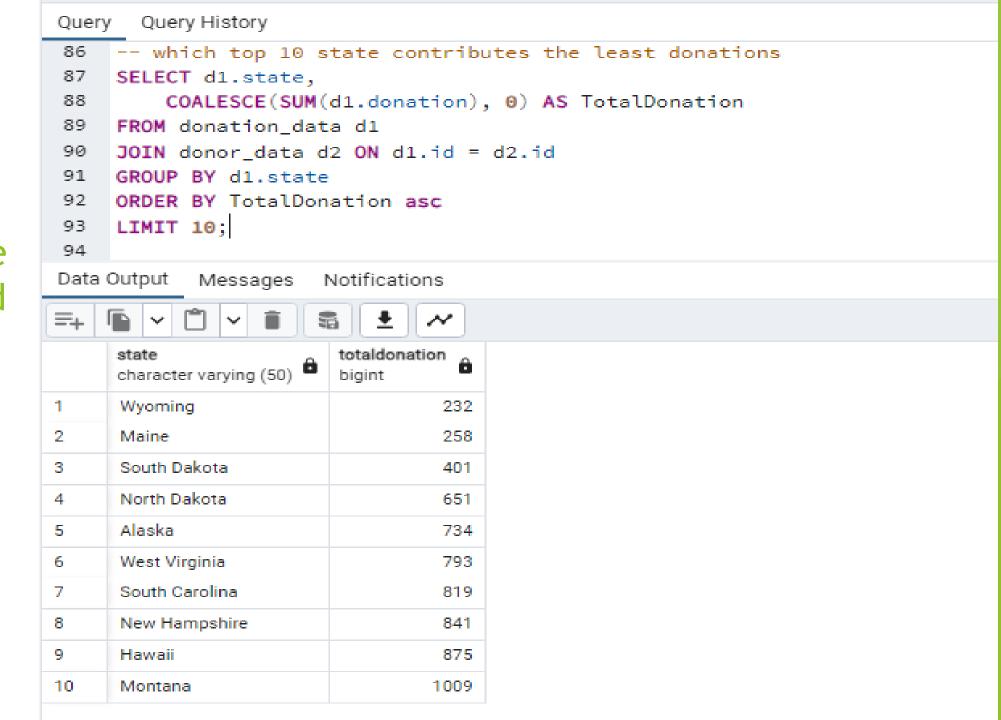
Total donation and the number of donation in \$ less than \$200

```
Query History
Query
68
    -- Total donation and number of donation below $200
69
70
    SELECT
         COALESCE(SUM(d1.donation), 0) AS TotalDonation,
71
72
         COUNT(*) AS NumberOfDonations
    FROM donation_data d1
73
    JOIN donor_data d2 ON d1.id = d2.id
   WHERE d1.donation < 200;
75
76
Data Output Messages
                      Notifications
                  numberofdonations
    totaldonation
     bigint
                  bigint
                               411
            42593
```

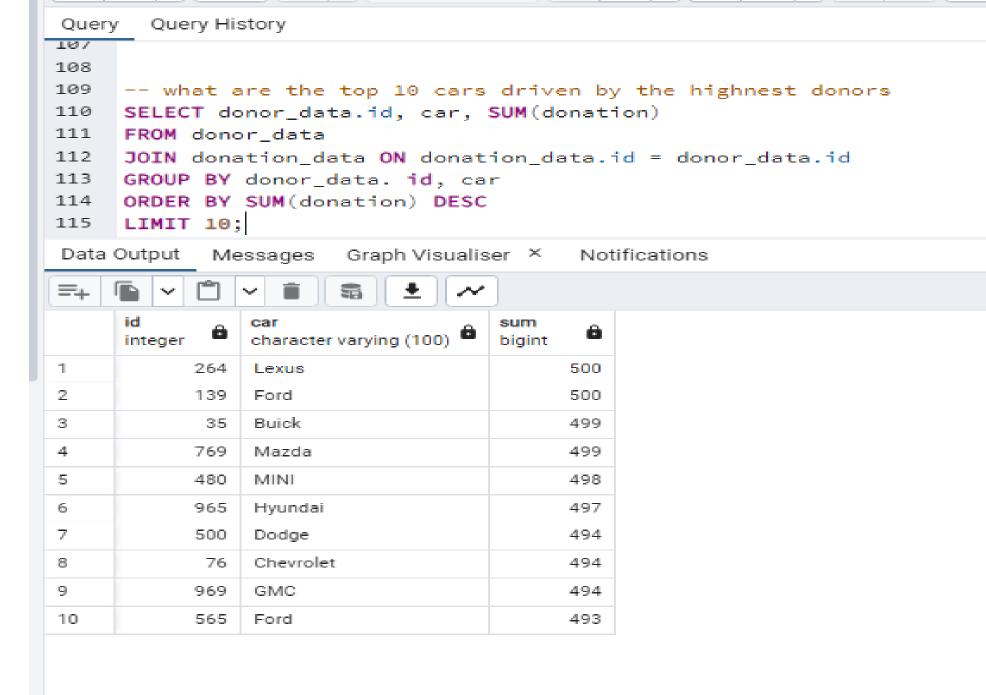
Top 10 state with the highest total donation in \$

```
Query History
Query
77 -- which top 10 state contributes the highest donation
     SELECT dl.state,
79
          COALESCE(SUM(d1.donation), 0) AS TotalDonation
80
     FROM donation_data d1
     JOIN donor_data d2 ON d1.id = d2.id
81
82
     GROUP BY d1.state
83
     ORDER BY TotalDonation DESC
84
     LIMIT 10;
85
Data Output Messages
                        Notifications
                                  /~/
     state
                          totaldonation
     character varying (50)
                          bigint
      California
1
                                  30264
      Texas
                                  24097
      Florida
                                  20562
      New York
                                  14759
4
      Virginia
                                  10750
5
      Illinois
                                   8674
      District of Columbia
                                   8376
8
      Tennessee
                                   8316
9
      Georgia
                                   8046
      Ohio
                                   6876
10
```

The Top 10 state that contributed the least donation



The car brand of the top 10 contributor along with the overall donated amount in \$



Total rows: 10 of 10 Query complete 00:00:00.235

Recommendations

- The distribution of the total donations in dollars is heavily influenced by the top 5 s California, Texas, Florida, New York, and Virginia). This skew is primarily attributed to population concentration in the first 4 states. To address this, I suggest implementing heightened awareness programs and increased advertising efforts in other states, particularly in Illinois, Ohio, Georgia, North Carolina, Michigan, and New Jersey. It's worth nothing that Virginia, despite contributing 2.57%, rank 12th in state population distribution, falling below the highlighted states as per information available at https://www.Infoplease.com/us/states/state-population-by-rank.
- The outlined strategy also serves the purpose of augmenting the frequency of the donations from contributors in the highlighted states. While it might be contended that Virginia is home to some of the wealthiest individuals in the United State, data from https://www.edudwar.com/top-10-richest-states-in-usa/ indicates that Virginia holds the 10th position among the richest states in the country.



Thanks You

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