

QUESTIONS AND SQL QUERIES

Total donations

```
SELECT SUM (donation) AS total_donation  
FROM donation_data;
```

Total donations and number of donations by gender

```
SELECT gender, SUM (donation) AS total_donation, COUNT (donation) AS number_of_donations  
FROM donation_data  
GROUP BY gender;
```

Frequency of donations

```
SELECT donation_frequency, SUM (donation) AS total_donation, COUNT (donation) AS  
number_of_donations  
FROM donation_data a  
JOIN donor_data b  
ON a.id = b.id  
GROUP BY donation_frequency;
```

Donation contributions by job field

```
SELECT job_field, SUM (donation) AS total_donation, COUNT (donation) AS number_of_donations  
FROM donation_data a  
GROUP BY job_field  
ORDER BY total_donation DESC;
```

Top 10 states with the most contributions

```
SELECT state, SUM (donation) AS total_donation, COUNT (donation) AS number_of_donations  
FROM donation_data a  
GROUP BY state  
ORDER BY total_donation DESC  
LIMIT 10;
```

Top 10 states with the least contributions

```
SELECT state, SUM (donation) AS total_donation, COUNT (donation) AS number_of_donations  
FROM donation_data a  
GROUP BY state  
ORDER BY total_donation ASC  
LIMIT 10;
```

Cars driven by donors with the most donations

```
SELECT car, SUM (donation) AS total_donation, COUNT (donation) AS number_of_donations  
FROM donation_data a  
JOIN donor_data b  
ON a.id = b.id  
GROUP BY car  
ORDER BY total_donation DESC  
LIMIT 10;
```

University affiliation of donors

```
SELECT university, SUM (donation) AS total_donation, COUNT (donation) AS number_of_donations
FROM donation_data a
JOIN donor_data b
ON a.id = b.id
GROUP BY university
ORDER BY total_donation DESC
LIMIT 10;
```

States bringing in the most daily donations

```
SELECT donation_frequency, state, SUM (donation) AS total_donation, COUNT (donation) AS
number_of_donations
FROM donation_data a
JOIN donor_data b
ON a.id=b.id
GROUP BY donation_frequency, state
HAVING donation_frequency = 'Daily'
ORDER BY total_donation DESC
LIMIT 10;
```

Job fields in the state contributing the highest donations

```
SELECT donation_frequency, job_field state, SUM (donation) AS total_donation
FROM donation_data a
JOIN donor_data b
ON a.id=b.id
GROUP BY donation_frequency, job_field, state
HAVING donation_frequency = 'Daily' AND state = 'California'
ORDER BY total_donation DESC
LIMIT 10;
```

Donations based on gender and states

```
SELECT gender, state, SUM (donation) AS total_donation
FROM donation_data
GROUP BY gender, state
ORDER BY total_donation DESC
LIMIT 10;
```

List of donors with their shirt sizes and favourite colour

```
SELECT a.id, first_name|| ' ' || last_name AS donor_name, shirt_size, favourite_colour, donation
FROM donation_data a
JOIN donor_data b
ON a.id = b.id
GROUP BY shirt_size, favourite_colour, donation, a.id, first_name, last_name
HAVING donation BETWEEN 400 AND 500
ORDER BY donation DESC
LIMIT 10;
```