In [47]:
```
pip install mysql-connector-python #install the connector package
```

```
Requirement already satisfied: mysql-connector-python in c:\users\aniwa\anaconda3
\lib\site-packages (8.1.0)
Requirement already satisfied: protobuf<=4.21.12,>=4.21.1 in c:\users\aniwa\anacon
da3\lib\site-packages (from mysql-connector-python) (4.21.12)
Note: you may need to restart the kernel to use updated packages.
```

In [80]:
```
import mysql.connector
db = mysql.connector.connect(
  host="localhost",
  user="root",
  password="Onajourney123#",
  database="db3" #must have this expression to enable whatever action wriiten to t
)
mycursor = db.cursor()
print(db)
```

```
<mysql.connector.connection_cext.CMySQLConnection object at 0x000001CD7066E1D0>
```

1. How much is the total donation?

In [53]:
```
mycursor.execute("SELECT  sum(donation) FROM donation_data")
total_donations = mycursor.fetchall()

print(total_donations)
```

```
[(Decimal('249085'),)]
```

2. What is the total donation by Gender?

In [54]:
```
mycursor.execute("SELECT gender, sum(donation) FROM donation_data GROUP BY gender"
donationbygender = mycursor.fetchall()
print(donationbygender)
```

```
[('Male', Decimal('127628')), ('Female', Decimal('121457'))]
```

3. Show the total donation and number of donations by Gender

In [56]:
```
mycursor.execute("SELECT gender, count(donation), sum(donation) FROM donation_data
donationcounterandsum = mycursor.fetchall()
print(donationcounterandsum)
```

```
[('Male', 492, Decimal('127628')), ('Female', 508, Decimal('121457'))]
```

4. Total donation made by frequency of donation

In [58]:
```
mycursor.execute("SELECT donation_data.donation, donor_data.donation_frequency FRO
donationfreq = mycursor.fetchall()
print(donationfreq)
```

```
[(28, 'Daily'), (292, 'Yearly')]
```

5. Total donation and number of donation by Job field

In [63]:
```
mycursor.execute("SELECT job_field, count(donation), sum(donation) FROM donation_da
donationnumberandtotal = mycursor.fetchall()
for x in donationnumberandtotal:
    print(x)
```

```
('Human Resources', 93, Decimal('23060'))
('Engineering', 93, Decimal('21968'))
('Sales', 83, Decimal('19009'))
('Business Development', 94, Decimal('22266'))
('Legal', 66, Decimal('17309'))
('Marketing', 74, Decimal('18255'))
('Services', 80, Decimal('19858'))
('Accounting', 80, Decimal('20504'))
('Research and Development', 84, Decimal('22862'))
('Training', 84, Decimal('21721'))
('Support', 79, Decimal('19475'))
('Product Management', 90, Decimal('22798'))
```

6. Total donation and number of donations above 200USD

In [67]:
```
mycursor.execute("SELECT sum(donation), count(donation) FROM donation_data WHERE do
donationabove200 = mycursor.fetchall()
print(donationabove200)
```

```
[(Decimal('205892'), 586)]
```

7. Total donation and number of donations below 200USD

In [68]:
```
mycursor.execute("SELECT sum(donation), count(donation) FROM donation_data WHERE do
donationbelow200 = mycursor.fetchall()
print(donationbelow200)
```

```
[(Decimal('42593'), 411)]
```

8. Which top 10 states contributes the highest donations

In [75]:
```
mycursor.execute("SELECT state, sum(donation) FROM donation_data GROUP BY state ORD
donationbystate = mycursor.fetchall()
for x in donationbystate:
    print(x)
```

```
('California', Decimal('30264'))
('Texas', Decimal('24097'))
('Florida', Decimal('20562'))
('New York', Decimal('14759'))
('Virginia', Decimal('10750'))
('Illinois', Decimal('8674'))
('District of Columbia', Decimal('8376'))
('Tennessee', Decimal('8316'))
('Georgia', Decimal('8046'))
('Ohio', Decimal('6876'))
```

9. Which top 10 states contributes the least donations

In [85]:
```
mycursor.execute("SELECT state, sum(donation) FROM donation_data GROUP BY state ORD
least10donations = mycursor.fetchall()
for x in least10donations:
    print(x)
```

```
('Wyoming', Decimal('232'))
('Maine', Decimal('258'))
('South Dakota', Decimal('401'))
('North Dakota', Decimal('651'))
('Alaska', Decimal('734'))
('West Virginia', Decimal('793'))
('South Carolina', Decimal('819'))
('New Hampshire', Decimal('841'))
('Hawaii', Decimal('875'))
('Montana', Decimal('1009'))
```

In [ ]:
```

```