Data Cleaning With SQL

```
SQLQuery1.sql - D...V6O6P\Muham (65))*  ⇥ ✕
    --To Find The Unique Addresses in Person.Address Table
Select Distinct AddressID
 From Person.Address

    --To Remove Nulls in AddressLine2 Column in Person.Address Table By Coalesce Function
 Update Person.Address Set AddressLine2 = Coalesce(AddressLine2,'No Provided AddressLine')

    --To Remove Nulls in Title Column in Person.Person Table By a Condition
Update Person.Person Set Title = 'No Provided Title'
 where Title is null
```

```
SQLQuery1.sql - D...V6O6P\Muham (65))*  ⇥ ✕

    --To Remove Nulls in MiddleName Column in Person.Person Table By Nullif Function
 Update Person.Person Set MiddleName = Nullif(MiddleName,'No Provided Title')


    --To Update The Type Of The EmailPromotion Column in Person.Person Table
Alter Table Person.Person
 Alter Column EmailPromotion varchar(50)
```
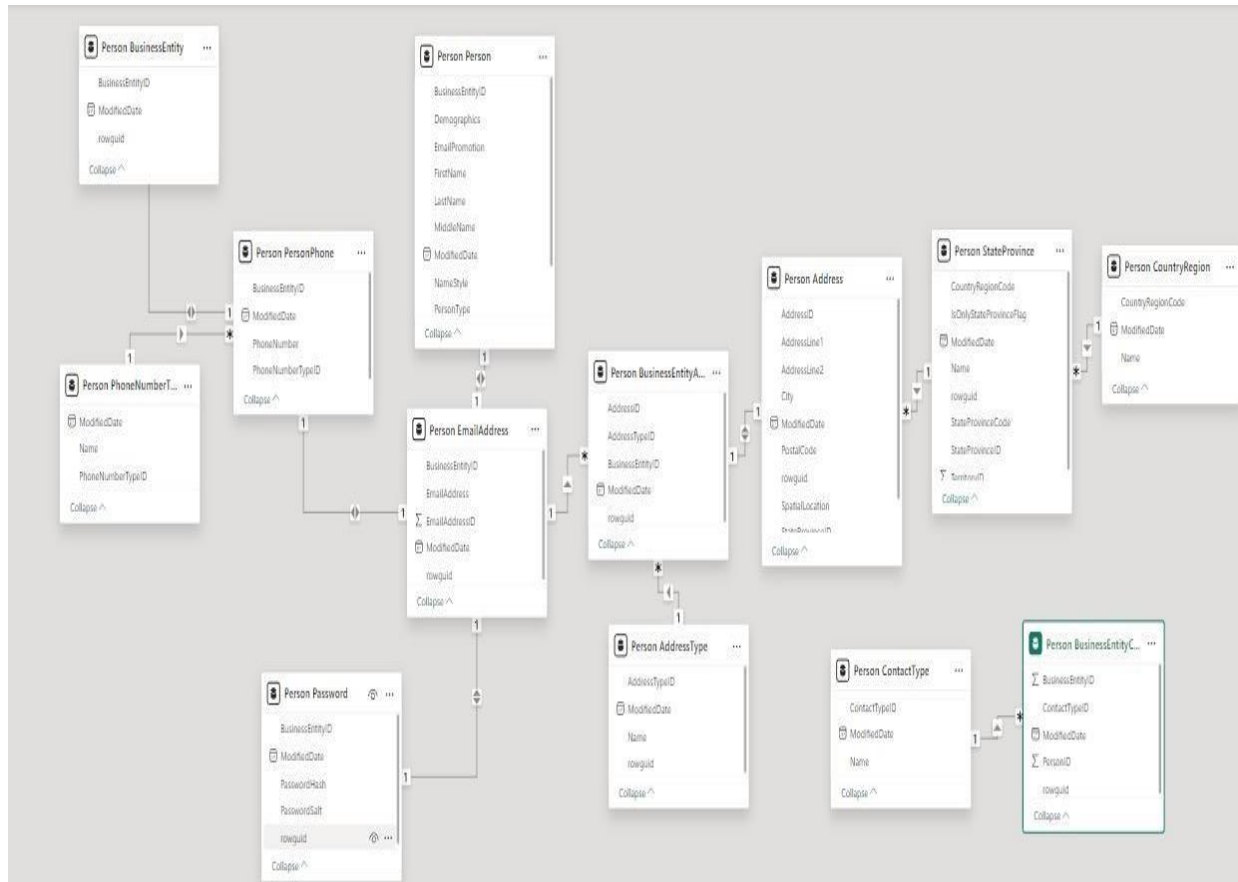
```
SQLQuery1.sql - D...V6O6P\Muham (65))*  ⇥ ✕
    --To Change The Values From 0,1,2 To Opted Out,Opted In,Limited
UPDATE Person.Person
 SET EmailPromotion = CASE
        WHEN EmailPromotion = 0 THEN 'Opted Out'
        WHEN EmailPromotion = 1 THEN 'Opted In'
        WHEN EmailPromotion = 2 THEN 'Limited'
        ELSE EmailPromotion
 END
```
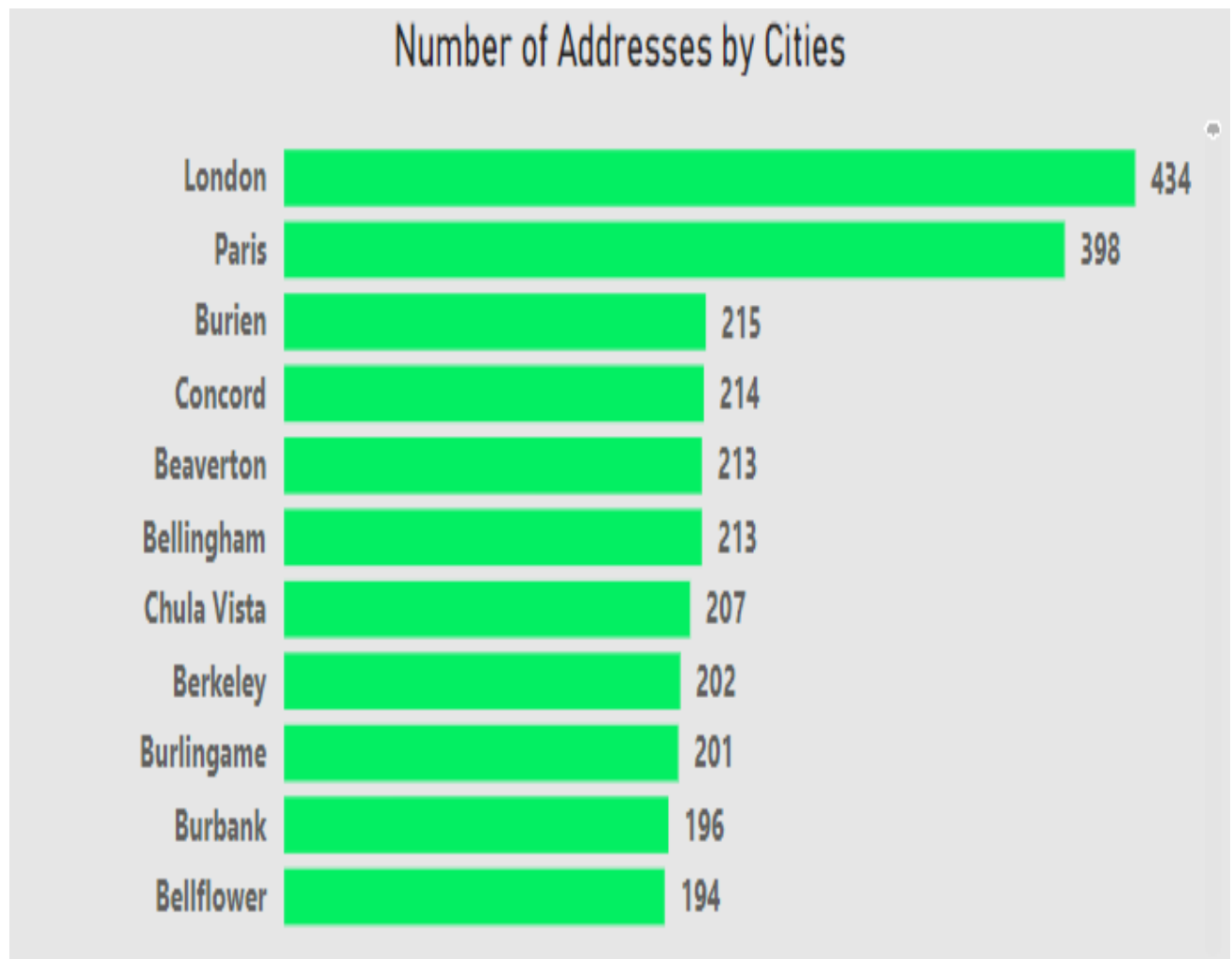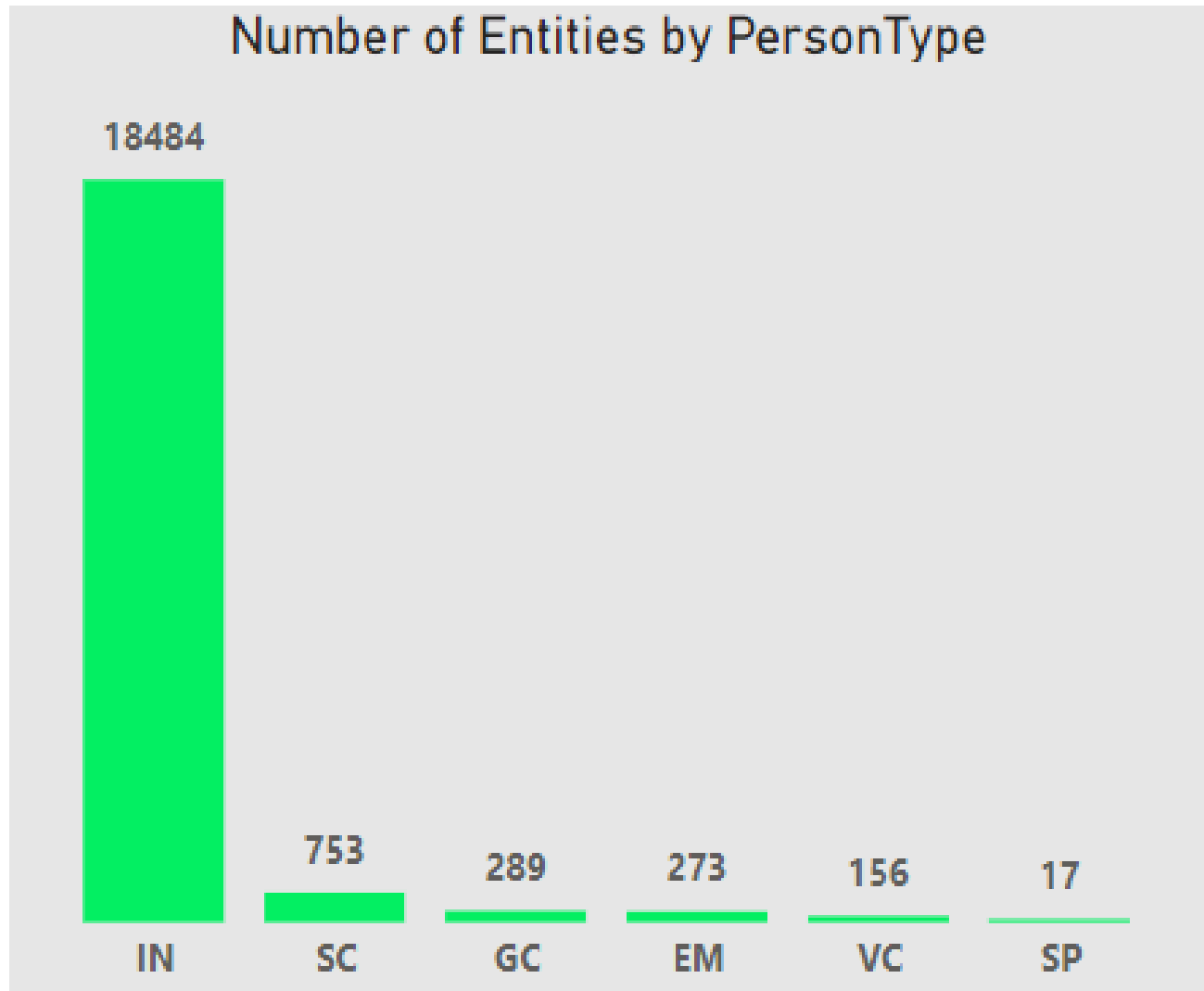
Data Modelling

Questions

1-Which cities have the highest number of addresses?

Number of Addresses by Cities

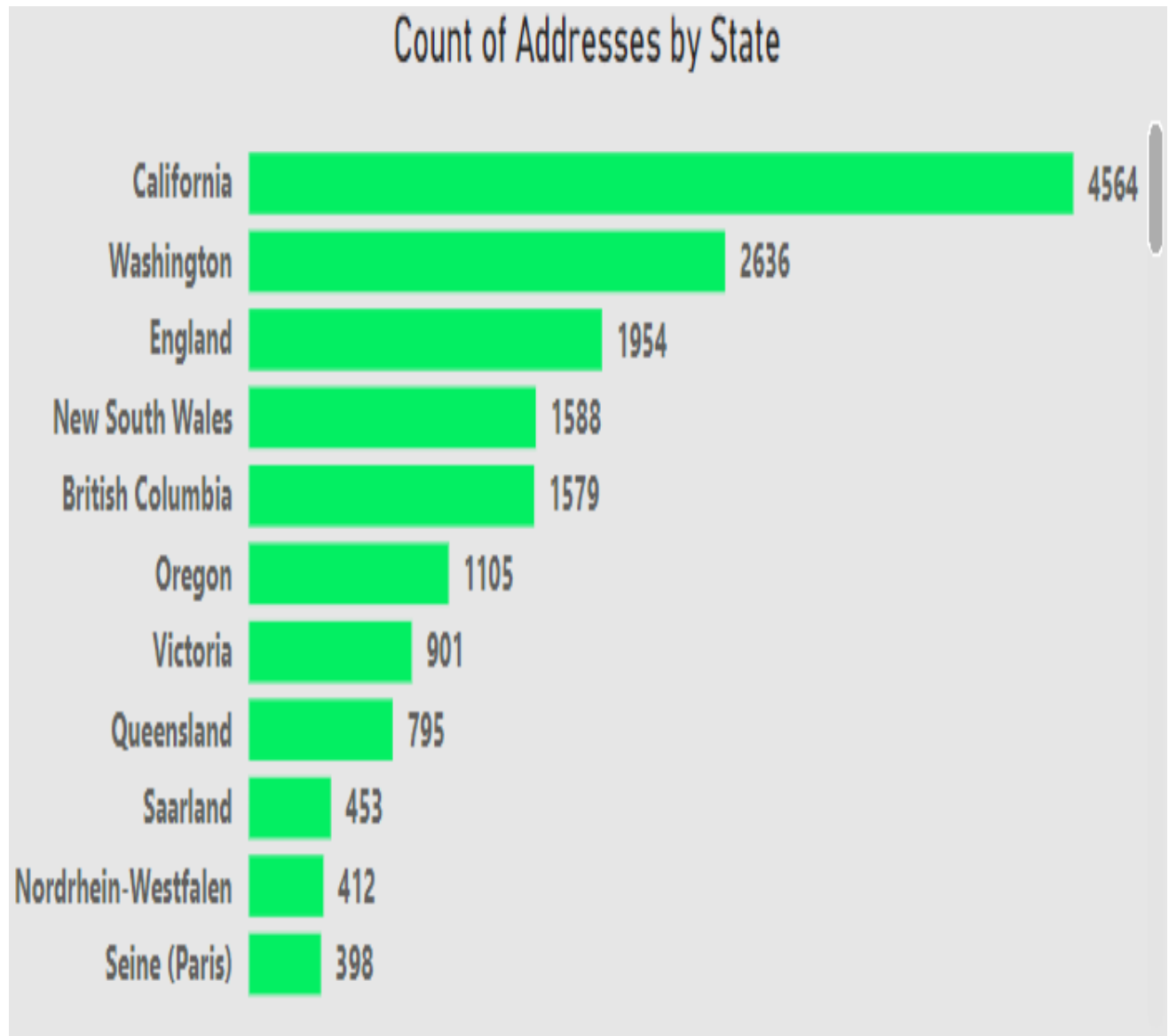| City	Number of Addresses
London	434
Paris	398
Burien	215
Concord	214
Beaverton	213
Bellingham	213
Chula Vista	207
Berkeley	202
Burlingame	201
Burbank	196
Bellflower	194

London , Paris and Burien are the top 3 cities .

2-What is the most person type by count of business entity ?

Number of Entities by PersonType

18484

753

289

273

156

17

IN   SC   GC   EM   VC   SP

IN (Individual) is the most person type

3-Which states have the most addresses?

Count of Addresses by State

State	Count
California	4564
Washington	2636
England	1954
New South Wales	1588
British Columbia	1579
Oregon	1105
Victoria	901
Queensland	795
Saarland	453
Nordrhein-Westfalen	412
Seine (Paris)	398

California and Washington have the most addresses

4-What is the distribution of email promotion preferences?

Percentage of Email Promotion

3.77K (18.88%)

5.04K (25.26%)

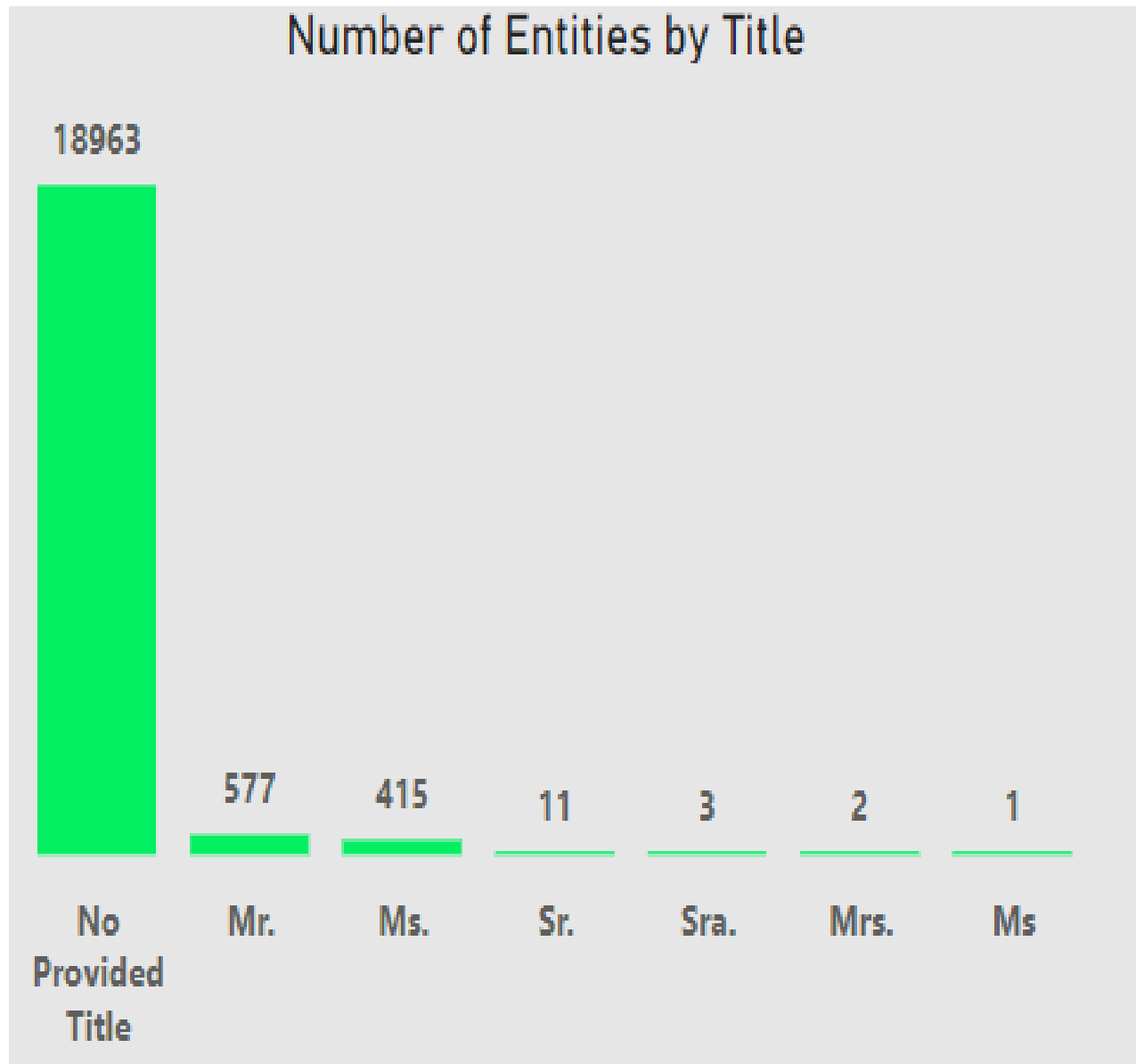11.16K (55.87%)

EmailPromotion ●Opted Out ●Opted In ●Limited
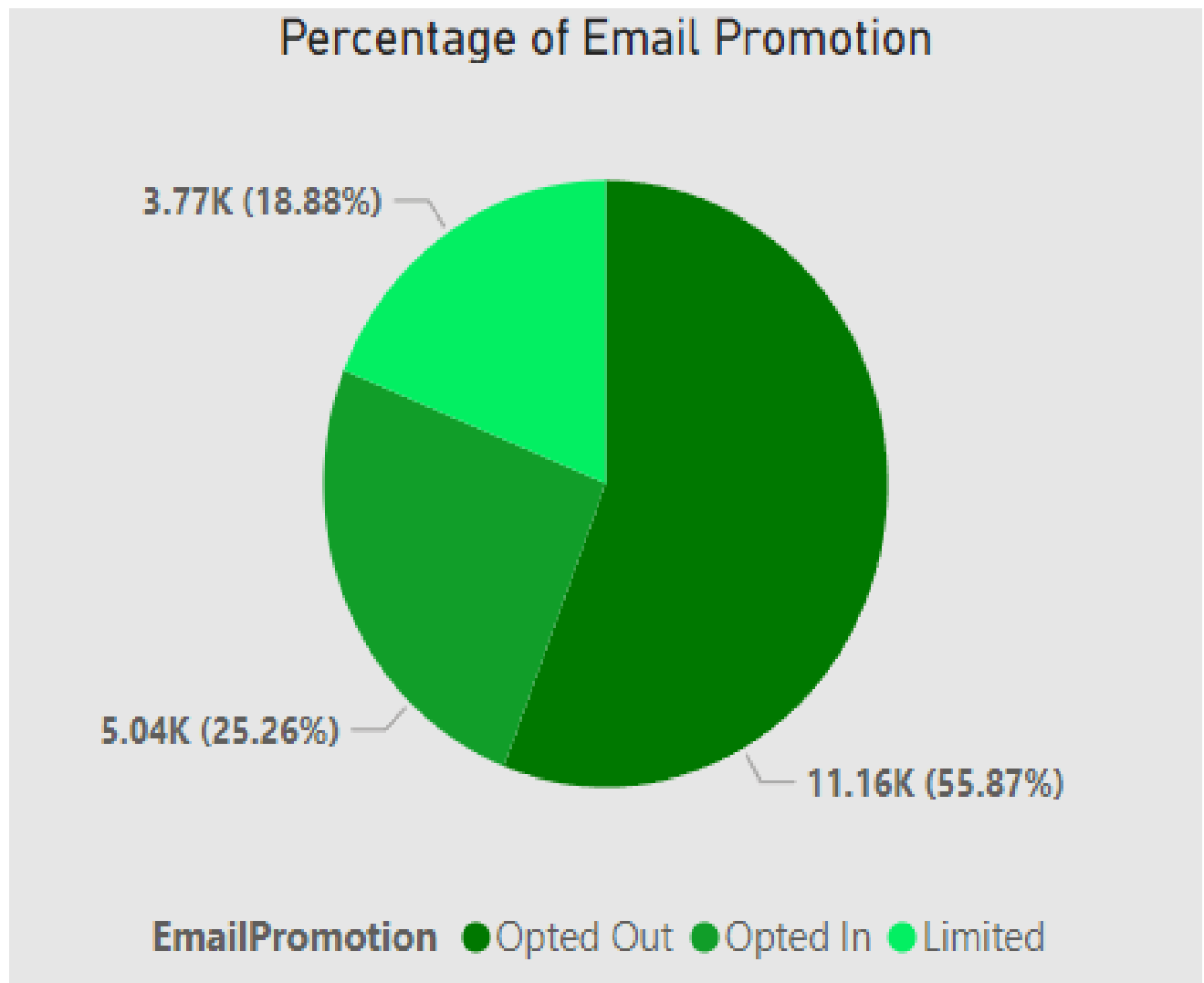
Opted Out represents 55.87%

Opted In represents 25.26%

Limited represents 18.88%

5-What are the most common titles among individuals?

Number of Entities by Title

Bar chart showing Number of Entities by Title:
- No Provided Title: 18963
- Mr.: 577
- Ms.: 415
- Sr.: 11
- Sra.: 3
- Mrs.: 2
- Ms: 1

Mr. and Ms. are the most common titles among individuals