Without using pandas:

```
In [68]: countdic = {}
          airlines = open('airlines.csv', 'r')
          lines = airlines.readlines()
          flag = 0
          for line in lines:
              if flag == 1:
                  name = line.split(',')
                  name = name[1] + name[2]
                  countdic[name]=0
              else:
                  flag = 1
          flag = 0
          for line in lines:
              if flag ==1:
                  name = line.split(',')
                  name = name[1] + name[2]
                  countdic[name]+=1
              else:
                  flag = 1
```

Output 1: Get list of unique airport names and number of times it is repeated in a json format

```
In [69]: import json
         print(json.dumps(countdic,indent=4))
             "\"Atlanta GA: Hartsfield-Jackson Atlanta International\"": 154,
             "\"Boston MA: Logan International\"": 150,
             "\"Baltimore MD: Baltimore/Washington International Thurgood Marshall\"": 150,
             "\"Charlotte NC: Charlotte Douglas International\"": 150,
             "\"Washington DC: Ronald Reagan Washington National\"": 150,
             "\"Denver CO: Denver International\"": 150,
             "\"Dallas/Fort Worth TX: Dallas/Fort Worth International\"": 150,
             "\"Detroit MI: Detroit Metro Wayne County\"": 150,
             "\"Newark NJ: Newark Liberty International\"": 150,
             "\"Fort Lauderdale FL: Fort Lauderdale-Hollywood International\"": 150,
             "\"Washington DC: Washington Dulles International\"": 150,
             "\"Houston TX: George Bush Intercontinental/Houston\"": 150,
             "\"New York NY: John F. Kennedy International\"": 150,
             "\"Las Vegas NV: McCarran International\"": 150,
             "\"Los Angeles CA: Los Angeles International\"": 150,
             "\"New York NY: LaGuardia\"": 150,
             "\"Orlando FL: Orlando International\"": 150,
             "\"Chicago IL: Chicago Midway International\"": 150,
             "\"Miami FL: Miami International\"": 150,
             "\"Minneapolis MN: Minneapolis-St Paul International\"": 150,
             "\"Chicago IL: Chicago O'Hare International\"": 150,
             "\"Portland OR: Portland International\"": 149,
             "\"Philadelphia PA: Philadelphia International\"": 149,
             "\"Phoenix AZ: Phoenix Sky Harbor International\"": 137,
             "\"San Diego CA: San Diego International\"": 149,
             "\"Seattle WA: Seattle/Tacoma International\"": 149,
             "\"San Francisco CA: San Francisco International\"": 149,
             "\"Salt Lake City UT: Salt Lake City International\"": 149,
             "\"Tampa FL: Tampa International\"": 149
         }
```

Output 2: Which airport is mentioned highest number of times and its count

```
In [70]: v = list(countdic.values())
k = list(countdic.keys())
print(k[v.index(max(v))], 'Count = {}'.format(max(v)))

"Atlanta GA: Hartsfield-Jackson Atlanta International" Count = 154
```

Output 3: Which airport is mentioned lowest number of times and its count

Using Pandas

```
In [72]: import pandas as pd
airlines = pd.read_csv('airlines.csv')
airlines
Out[72]:
```

	Airport.Code	Airport.Name	Time.Year	Statistics.Flights.Cancelled
0	ATL	Atlanta, GA: Hartsfield-Jackson Atlanta Intern	2003	216
1	BOS	Boston, MA: Logan International	2003	138
2	BWI	Baltimore, MD: Baltimore/Washington Internatio	2003	29
3	CLT	Charlotte, NC: Charlotte Douglas International	2003	73
4	DCA	Washington, DC: Ronald Reagan Washington National	2003	74
				•••
4329	ORD	Chicago, IL: Chicago O'Hare International	2015	875
4330	ATL	Atlanta, GA: Hartsfield-Jackson Atlanta Intern	2003	216
4331	ATL	Atlanta, GA: Hartsfield-Jackson Atlanta Intern	2003	216
4332	ATL	Atlanta, GA: Hartsfield-Jackson Atlanta Intern	2003	216
4333	ATL	Atlanta, GA: Hartsfield-Jackson Atlanta Intern	2003	216

4334 rows × 4 columns

Output 1: Get list of unique airport names and number of times it is repeated in a json format

Z: Phoenix Sky Harbor International":137}' Output 2: Which airport is mentioned highest number of times and

nedy International":150, "Fort Lauderdale, FL: Fort Lauderdale-Hollywood International":150, "Miami, FL: Miami International":150, "New York, NY: LaGuardia":150, "San Diego, CA: San Diego International":149, "San Francisco, CA: San Francisco International":149, "Seattle, WA: Seattle\\/Tacoma International":149, "Philadelphia, PA: Philadelphia International":149, "Salt Lake City, UT: Salt Lake City International":149, "Portland, OR: Portland International":149, "Tampa, FL: Tampa International":149, "Phoenix, A

```
its count

In [74]: airlines['Airport.Name'].value_counts().head(1)

Out[74]: Atlanta, GA: Hartsfield-Jackson Atlanta International 154
```

Out[74]: Atlanta, GA: Hartsfield-Jackson Atlanta International 154 Name: Airport.Name, dtype: int64

```
Output 3: Which airport is mentioned lowest number of times and its count
```