

CASE STUDY 013 [Python] US Working Visa Analysis





Here are some clues in case you are stuck with the case study:

1. The read_csv function could need to specify the encoding parameter to deal with these data sets:

```
encoding = 'latin1'
```

- 2. Consider both status 'CERTIFIED', 'CERTIFIED-WITHDRAWN' as certified visa.
- 3. To group, count and sort descending you can use this single statement:

You can make those steps one by one as well.

4. To filter data scientists, consider the following condition:

```
JOB_TITLE == 'DATA SCIENTIST'
```

5. You could make a merge with different column names, like:

6. The top 5 percentile is equal to the 95th percentile. To calculate the 95th percentile for salary for instance, use the following code:

```
np.percentile(a = visas.PREVAILING_WAGE, q = 95)
```

7. To discover the industry you must make a join with the naics code data set. This data set has duplicated values and less than 1% of the visas data sets has an invalid naics code. You can deal with duplicated values before to load into the data frame.