

### A table of destinations

destination	score	hotel_rating	all-incl_hotels	most_visited_city
Sardinia	8.3	3.6	41	Cagliari
Tenerife	7.9	3.8	38	Santa Cruz de Tenerife
Corsica	8.1	3.9	40	Ajaccio
Madeira	1.9	4.3	11	Funchal
Andalucia	7.8	3.7	97	Malaga
Iceland	5.2	2.8	7	Reykjavik
Algarve	8.6	4.7	32	Faro
Bahamas	8.5	2.9	5	Andros Town
Balearic Islands	6.3	3.5	173	Palma
Dalmatia	9.1	3.4	9	Zadar
Goa	8.4	3.1	6	Panaji
Bali	6.5	3.6	154	Denpasar city
Mauritius	9.2	4.1	27	Port Louis
Hawaii	9.3	4.6	118	Honolulu
Cyprus	7.5	4.2	22	Larnaca



holiday.shape (15, 5)

### Rows 3-8 are indices 2-7

ho	holiday.iloc[2:8]					
	destination	score	hotel_rating	all-incl_hotels	most_visited_city	
2	Corsica	8.1	3.9	40	Ajaccio	
3	Madeira	1.9	4.3	11	Funchal	
4	Andalucia	7.8	3.7	97	Malaga	
5	Iceland	5.2	2.8	7	Reykjavik	
6	Algarve	8.6	4.7	32	Faro	
7	Bahamas	8.5	2.9	5	Andros Town	

## The mean number of all-inclusive hotels across all destinations is 52

holiday["all-incl\_hotels"].mean()

52.0



### The lowest scoring destination is Madeira!

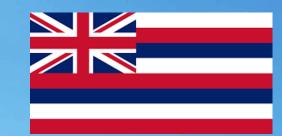
```
holiday["score"].min()

1.9

holiday.loc[holiday.score == 1.9]

destination score hotel_rating all-incl_hotels most_visited_city

3 Madeira 1.9 4.3 11 Funchal
```



### The highest scoring destination is Hawaii!

```
holiday["score"].max()

9.3

holiday.loc[holiday.score == 9.3]

destination score hotel_rating all-incl_hotels most_visited_city

13 Hawaii 9.3 4.6 118 Honolulu
```

All the destinations with more than 9 all-inclusive hotels

```
more than9 allincl = holiday["all-incl_hotels"] > 9
print(holiday[more than9 allincl])
                                               all-incl hotels
          destination
                               hotel_rating
                       score
             Sardinia
                          8.3
                                         3.6
                                                             41
             Tenerife
                          7.9
                                                             38
              Corsica
                          8.1
                                         3.9
                                                             40
              Madeira
                          1.9
                                         4.3
                                                             11
4
            Andalucia
                          7.8
                                         3.7
                                                             97
                          8.6
                                         4.7
              Algarve
                                                             32
8
    Balearic Islands
                          6.3
                                         3.5
                                                            173
11
                 Bali
                          6.5
                                         3.6
                                                            154
12
            Mauritius
                          9.2
                                         4.1
                                                             27
13
                          9.3
                                         4.6
                                                            118
               Hawaii
14
                                         4.2
               Cyprus
                          7.5
                                                             22
          most visited city
                   Cagliari
    Santa Cruz de Tenerife
2 3 4 6 8
                    Ajaccio
                     Funchal
                     Malaga
                        Faro
                       Palma
11
              Denpasar city
12
                 Port Louis
13
                   Honolulu
                     Larnaca
```

#### All destinations with feedback score above 8

```
score_above8 = holiday["score"] > 8
score_filter = holiday[score_above8]
print(score_filter)
   destination score hotel_rating all-incl_hotels most_visited_city
     Sardinia
                                                               Cagliari
                  8.3
                                 3.6
                                                   41
       Corsica
                  8.1
                                 3.9
                                                                Ajaccio
                                                   40
       Algarve
                  8.6
                                 4.7
                                                   32
                                                                    Faro
                  8.5
       Bahamas
                                2.9
                                                            Andros Town
     Dalmatia
                  9.1
                                3.4
                                                                   Zadar
                  8.4
                                 3.1
                                                    6
                                                                  Panaji
10
           Goa
     Mauritius
                  9.2
                                                             Port Louis
12
                                4.1
                                                   27
13
       Hawaii
                  9.3
                                 4.6
                                                  118
                                                                Honolulu
```

# All destinations with score below 2 score\_below2 = holiday["score"] < 2</pre> ScoreFilter = holiday[score\_below2]

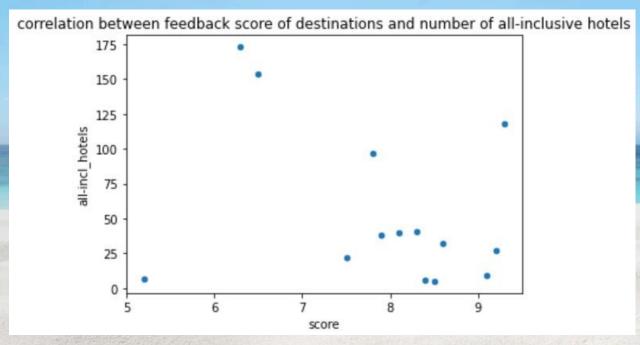
```
score_below2 = holiday["score"] < 2
ScoreFilter = holiday[score_below2]
print(ScoreFilter)

destination score hotel_rating all-incl_hotels most_visited_city
Madeira 1.9 4.3 11 Funchal</pre>
```

## Destination Maderal was removed due to scoring below 2

```
holiday.drop([3], axis=0, inplace=True)
print(holiday)
         destination score hotel_rating all-incl_hotels
                                                                         most visited city
            Sardinia
                         8.3
0
                                       3.6
                                                          41
                                                                                   Cagliari
            Tenerife
                                       3.8
1
                         7.9
                                                          38
                                                                    Santa Cruz de Tenerife
             Corsica
                         8.1
                                       3.9
                                                          40
                                                                                    Ajaccio
           Andalucia
                         7.8
                                       3.7
                                                          97
                                                                                     Malaga
5
                         5.2
             Iceland
                                       2.8
                                                           7
                                                                                  Reykjavik
6
                         8.6
                                       4.7
                                                          32
             Algarve
                                                                                       Faro
             Bahamas
                         8.5
                                       2.9
                                                                                Andros Town
    Balearic Islands
                         6.3
                                       3.5
                                                         173
                                                                                      Palma
9
            Dalmatia
                         9.1
                                       3.4
                                                                                      Zadar
10
                         8.4
                                       3.1
                 Goa
                                                           6
                                                                                     Panaji
11
                Bali
                         6.5
                                       3.6
                                                         154
                                                                              Denpasar city
           Mauritius
12
                         9.2
                                       4.1
                                                          27
                                                                                 Port Louis
13
              Hawaii
                         9.3
                                       4.6
                                                         118
                                                                                   Honolulu
14
                         7.5
                                       4.2
                                                          22
              Cyprus
                                                                                    Larnaca
```

## A Correlation between number of all-inclusive hoteland score



Correlation coefficient between these two variables is very close to zero = there is weak relationship between feedback score of destinations and number of all-inclusive hotels

holiday[['score','all-incl_hotels']].corr()					
	score	all-incl_hotels			
score	1.00000	-0.30938			
all-incl_hotels	-0.30938	1.00000			

## Holiday = holiday[["destination", "score"]] score\_above8 = Holiday["score"] > 8 score\_Filter = Holiday[score\_above8] print(score\_Filter) sorted\_score = score\_Filter.sort\_values("score",ascending=False) sorted\_score.plot("destination", "score").set\_title("destinations with the highest score")

## Data visualisation diagram of destinations and highest scores

