11/16/2018 Task1

Below we have constants set up to help with readability.

This is a helper lambda that extracts only the necessary fields from our csv file.

We will be grouping by:

- hotel country
- · hotel market
- hotel continent

And sorting by:

· search adults count.

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Below we set up the config and the context of our application.

Here I create an RDD the train.csv file.

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The main function performs the following steps:

- · Skips the header
- Extracts the fields that we need to use in our query
- Filters out non-couples
- Groups everything by hotel country, hotel market, hotel continent

lastException: Throwable = null

- · Sorts everything by the number of group repetitions in descending order
- Leaves only top 3 results
- Prints everything to the screen

```
In [26]:
         val header = data.first() // header
         val result = data.filter(row => row != header) // skip header
              .map(extractNecessaryFields) // extract necessary fields
              .filter(_._4 == 2) // only choose couples
              .groupBy(row => (row._1, row._2, row._3)) // group by hotel country, hotel
          market and hotel continent
              .mapValues(_.size) // transform Iterable[(String, String, Int)] into
          Iterable[Int]
              .sortBy(kv => kv._2, false) // sort by the number of people in descending
          order
              .take(3) // leave only top 3 results
         header = date_time,site_name,posa_continent,user_location country,user locati
         on_region,user_location_city,orig_destination_distance,user_id,is_mobile,is_p
         ackage,channel,srch_ci,srch_co,srch_adults_cnt,srch_children_cnt,srch_rm_cnt,
         srch_destination_id,srch_destination_type_id,is_booking,cnt,hotel_continent,h
         otel country, hotel market, hotel cluster
         result = Array(((50,628,2),127031), ((50,675,2),92729), ((8,110,4),55163))
Out[26]: Array(((50,628,2),127031), ((50,675,2),92729), ((8,110,4),55163))
In [11]: | sc.stop()
```