Assignment Day 20

Task 1:

- 1) What is the distribution of the total number of air-travellers per year?
- 2) What is the total air distance covered by each user per year?
- 3) Which user has travelled the largest distance till date?
- 4) What is the most preferred destination for all users?
- 5) Which route is generating the most revenue per year?
- 6) What is the total amount spent by every user on air-travel per year?
- 7) Considering age groups of < 20 , 20-35, 35 > ,Which age group is travelling the most every year?

Ans:

Note: Program files are properly documented for a detailed description of each instruction used within the program.

1) What is the distribution of the total number of air-travellers per year?

ScreenShot:

```
== spark rest
                                                                                    1) What is the distribution of the total number of air-travelers per year
> 🃭 project [sparktest-build] sources ro
                                                                                 // To find distribution of Air travellers/year we need to find count of id or year for each using a
    spark-warehouse
                                                                                 val a1 = spark.sql( sqlText = "select year, count(year) as num of travelers from holiday group by year")
    src
                                                                                 al.show
    ∨ 🗎 main
        ∨ scala
                                                                           SparkFile2DF > main(args: Array[String])
                at org.apache.spark.sql.Dataset.org$apache$spark$sql$Dataset$$collect(Dataset.scala:2377)
               at org.apache.spark.sql.Dataset$$anonfun$head$1.apply(Dataset.scala:2113) at org.apache.spark.sql.Dataset$$anonfun$head$1.apply(Dataset.scala:2112) at org.apache.spark.sql.Dataset.withTypedCallback(Dataset.scala:2795) at org.apache.spark.sql.Dataset.head(Dataset.scala:2112)
<u>6=9</u>
                at org.apache.spark.sql.Dataset.take(Dataset.scala:2327)
at org.apache.spark.sql.Dataset.showString(Dataset.scala:248)
at org.apache.spark.sql.Dataset.show(Dataset.scala:636)
at org.apache.spark.sql.Dataset.show(Dataset.scala:595) at org.apache.spark.sql.Dataset.show(Dataset.scala:604) at SQL.SparkFile2DFs.main(SparkFile2DF.scala:78)
                at SQL.SparkFile2DF.main(SparkFile2DF.scala)
          |year|num_of_travelers|
          119911
          |1992|
```

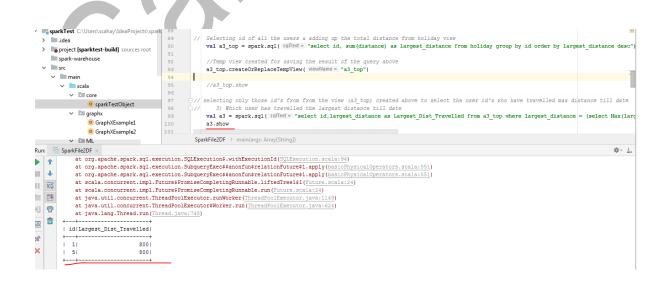
2) What is the total air distance covered by each user per year?

ScreenShot:



3) Which user has travelled the largest distance till date?

ScreenShot:



4) What is the most preferred destination for all users?

ScreenShot:



5)Which route is generating the most revenue per year?

ScreenShot:



6) What is the total amount spent by every user on air-travel per year?

ScreenShot:



7) Considering age groups of < 20 , 20-35, 35 > ,Which age group is travelling the most every year?

ScreenShot:

