

BASIC DATA OBSERVATION WITHIN MS SQL CLOUD

The data received was presented by 2 tables “.test” and “.train”. Firstly, I’ve decided to merge them into one database in SQL Google Cloud.

```
SELECT * FROM `Airlines_Passengers.Passengers_test`  
UNION ALL  
SELECT * FROM `Airlines_Passengers.Passengers_train`
```

#After I’ve decided to check some data to understand what does it represents with the next code:

#Discovering that we have data for **129 880 passengers**

```
SELECT COUNT(*)  
FROM `Airlines_Passengers.Main_Passengers`
```

#Discovering that we have data of **63981 man and 65899 women** if we will sort passengers by gender

```
SELECT gender, COUNT(*) as entity_count  
FROM `Airlines_Passengers.Main_Passengers`  
GROUP BY gender;
```

#Discovering quantity of people in the different group ages:

age_group ▾ ↑ //	group_count ▾ //
10.0	9839
20.0	26179
30.0	25704
40.0	29636
50.0	23966
60.0	10485
70.0	1595
80.0	135

```
SELECT  
  FLOOR(Age / 10) * 10 as age_group,  
  COUNT(*) as group_count  
FROM `Airlines_Passengers.Main_Passengers`  
GROUP BY FLOOR(age / 10) * 10;
```

#Discovering what type of travellers the passengers are:

Row	Type_of_Travel	entity_count
1	Business travel	89693
2	Personal Travel	40187

```
SELECT Type_of_Travel, COUNT(*) as entity_count
FROM `Airlines_Passengers.Main_Passengers`
GROUP BY Type_of_Travel;
```

#Discovering which class is the most popular (after we have to take into account the quantity of seats in the airplanes to have a proper vision if we want):

Row	Class	entity_count
1	Business	62160
2	Eco	58309
3	Eco Plus	9411

```
SELECT Class, COUNT(*) as entity_count
FROM `Airlines_Passengers.Main_Passengers`
GROUP BY Class;
```

#Discovering if the passengers are happy with our service:

Row	Satisfaction	entity_count	ratio
1	satisfied	56428	0.434462580843...
2	neutral or dissatisfied	73452	0.565537419156...

```
SELECT Satisfaction,
COUNT(*) as entity_count,
COUNT(*) * 1.0 / (SELECT COUNT(*) FROM `Airlines_Passengers.Main_Passengers`) as
ratio
FROM `Airlines_Passengers.Main_Passengers`
GROUP BY Satisfaction;
```