Invistico Airline: Data Extraction and Exploration

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```
[1] "C:/Users/Isabel Rita Mendoza/Desktop/Invistico_Airline.csv"
[1] "invistico_airline.csv"
[1] "C:/Users/Isabel Rita Mendoza/Desktop/
```

Customer.Type

```
table(df1$Class)
```

```
##
## Business      Eco Eco Plus
##    61990    58117     9380
```

```
freq_table <- table(df1$Class)
print(freq_table)
```

```
##
## Business      Eco Eco Plus
##    61990    58117     9380
```

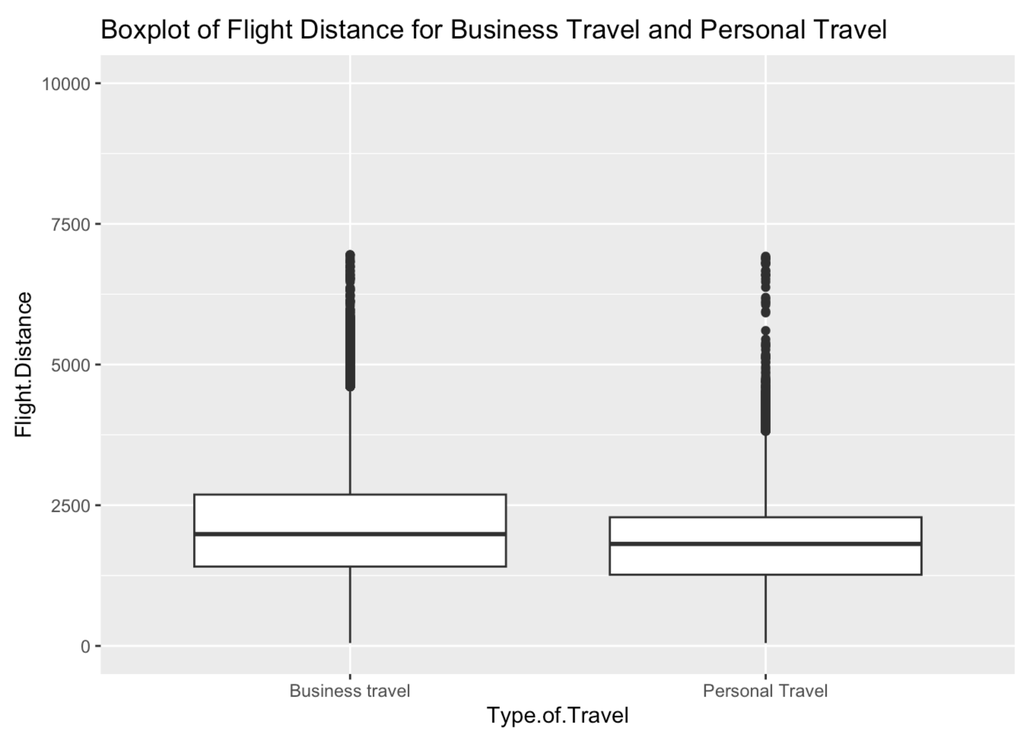
```
prop.table(freq_table)
```

```
##
##  Business       Eco  Eco Plus
## 0.4787353 0.4488250 0.0724397
```

```
summary(df1$Flight.Distance)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      50    1359    1924    1981    2543    6951
```

```
ggplot(df1, aes(x =, Type.of.Travel, y = Flight.Distance))+
  geom_boxplot()+
  coord_cartesian(ylim = c(0,10000))+
  labs(title = "Boxplot of Flight Distance for Business Travel and Personal Travel")
```




```
table(df1$Customer.Type, df1$loyal)
```

```
##
##                          0      1
##   disloyal Customer      0  23714
##   Loyal Customer    105773      0
```

For passengers who are in a Business travel, the mean flight distance is around 2000 miles, and customers with Personal travel has a flight distance mean is around 1800 miles. Business travel has outlier observations around 4800 to 7300 miles, while personal travel distance, has outlier observations around 3700 miles to 7300 miles.

```
All_Class_mean <- (Business_Mean_Distance + Eco_Mean_Distance + Eco_Plus_Mean_Distance)/3
print(All_Class_mean)
```

```
## [1] 1923.36
```