**Alteryx Tech Test - Answer**

Question:

An airline is interested in the frequency of in-flight food and beverage sales throughout the day. They want to know which **period of the day** (as defined by departure time) has the **highest percentage of passengers** making in-flight purchases. The five periods of the day are:

* Early Morning (4:00 to 7:59)
* Morning (8:00 to 11:59)
* Midday (12:00 to 15:59)
* Evening (16:00 to 19:59)
* Night (20:00 to 23:59)

You have 3 files. One contains a [list of all flights](https://drive.google.com/open?id=1uZ3ZBNlWV7aVoIVU9VGF-1O0RZQp59aR) departing Salt Lake City (SLC) airport on Aug 9th 2019. Another contains [passenger lists](https://drive.google.com/open?id=1aJnjRB638MGmin74qyeMT96WgpiCptex) for those flights, and the last file is a record of all in-flight [food and beverage sales](https://drive.google.com/open?id=1dpHzfeNKJbH-UGg2q7HqcQHpZzH0wk6k) on those flights. Again, your task is to determine:

1. **Which period** of the day has the highest percentage of passengers making in-flight purchases
2. The **actual percentage** of passengers who made in-flight purchases for each period of the day on Aug 9th 2019.

Answer:

1. **Which period** of the day has the highest percentage of passengers making in-flight purchases

**The highest percentage of passengers making in-flight purchases is 10.87% on Early Morning time period.**

1. The **actual percentage** of passengers who made in-flight purchases for each period of the day on Aug 9th 2019.

**The actual percentage of passengers making in-flight purchases are:**

* 1. **Early Morning : 10.87%**
  2. **Morning : 9.56%**
  3. **Midday : 9.82%**
  4. **Evening : 8.89%**
  5. **Night : 10.60%**