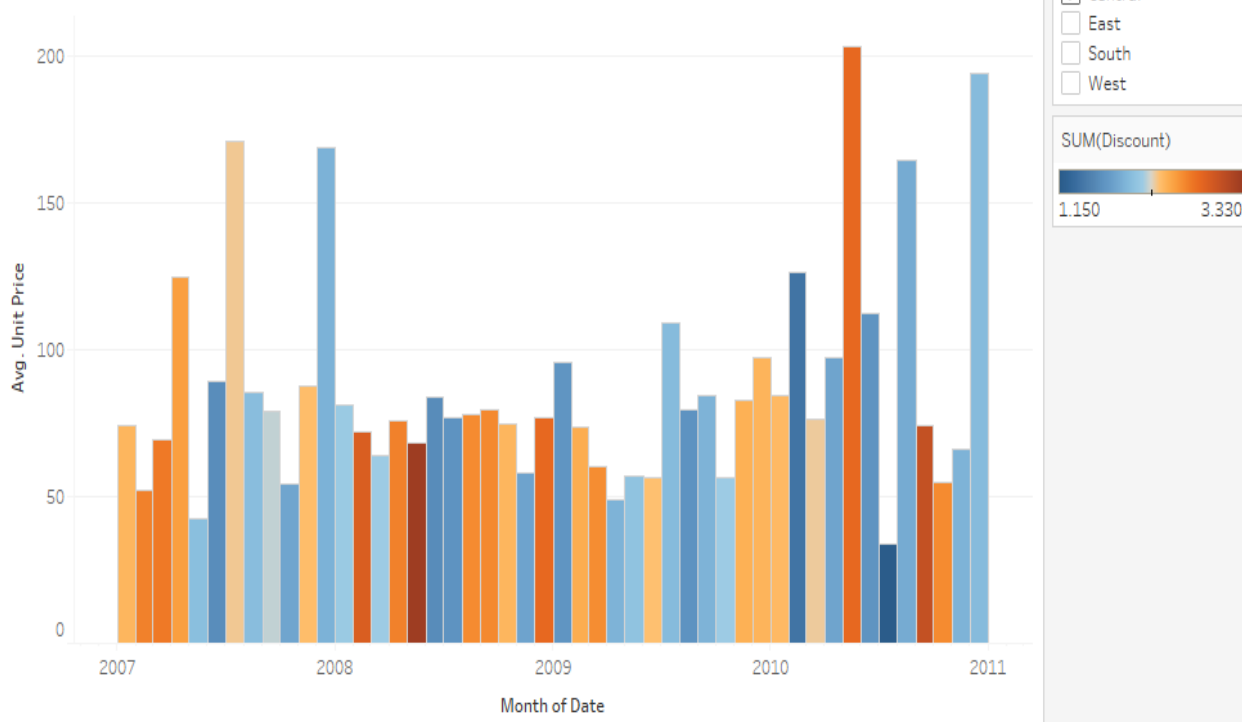**Q1.** A given Excel file "SuperDrugsPrescriptions.xlsx" contains pharmaceutical sales information. Create a Tableau worksheet "**Q1answer.twb**" to answer each of the following questions:
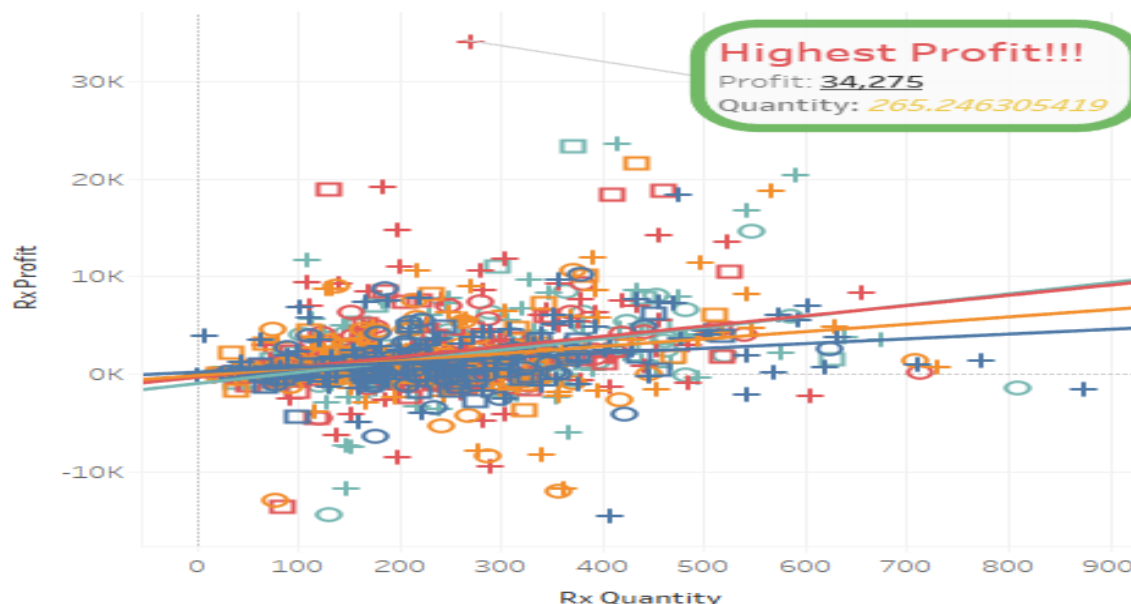
1) Exactly recreate the following visualization of the average unit price over time

2) Exactly recreate the following visualization of profit vs. quantity.

In this visualization, the color of each mark denotes the **Dispensed Region**, and the shape denotes the **Drug Supplier**. This visualization aims to answer the following question: What pharmacy and drug supplier represented the highest profit mark on this visualization, across all regions?

Q2. Tableau file **Flights_data.twbx** contains information on all U.S. airline flights from 2010 and 2011. Create a Tableau visualization "**Q2answer.twb**" (**NOT Q2answer.twbx** as it will be too big) to answer the following 6 questions:

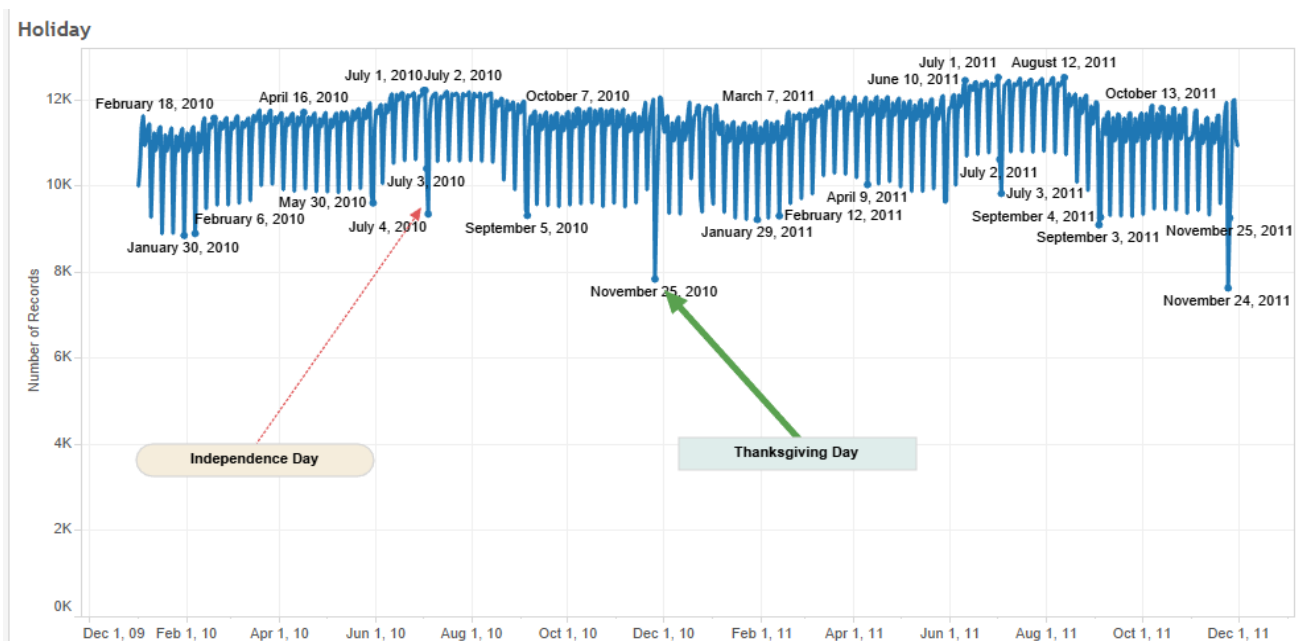1) Create a Tableau worksheet "**Comparison**" to compare the flight numbers in 2010 and 2011

2) The above visualization of flights shows a drop of more than 300,000 flights from 2010 to 2011. From our experience, we know flight activity should not drop so significantly between the two years. Why does this viz seem to indicate otherwise? Your task is to investigate flights over time in more detail to determine why these yearly numbers show such a large drop, by creating the following worksheet "**Why drop Significantly**"
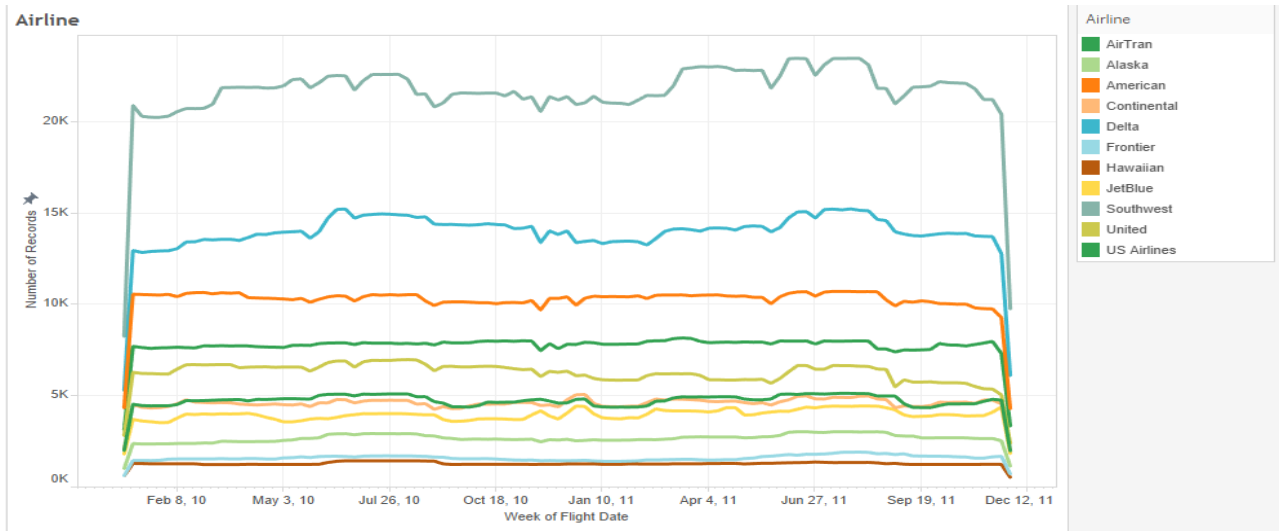

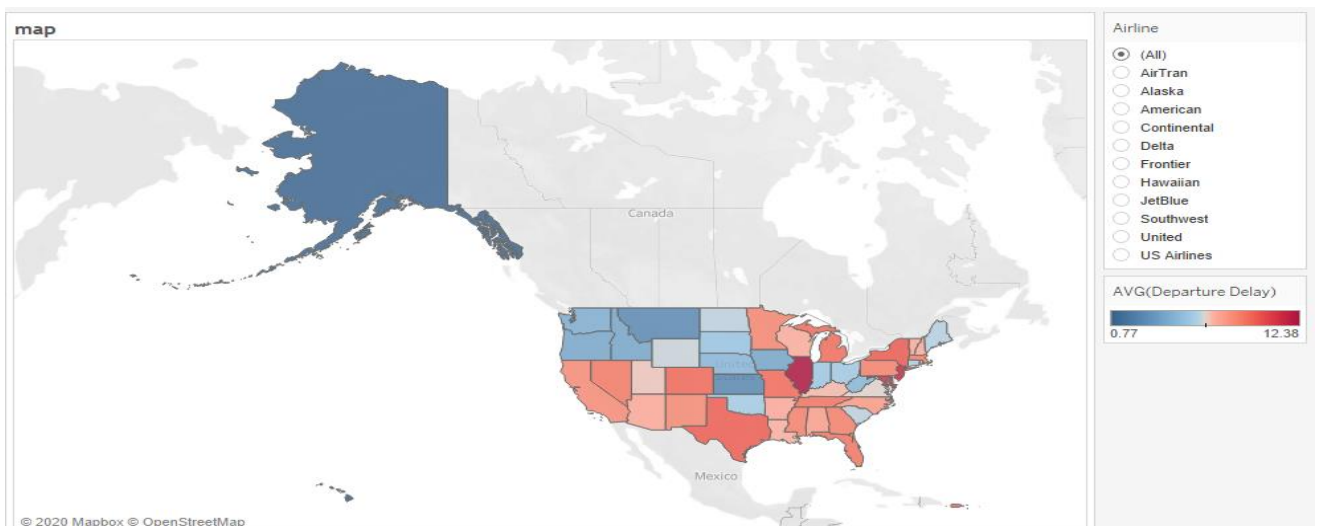You finally find actually we do not have data for Q4 in 2011

3) You are interested in identifying days that are particularly light in terms of travel each year. Are there particular holidays that seem to experience substantially lower numbers of flights? Create the following worksheet "**Holiday**" to solve this problem.

4) You want to know who operates the most flights. Is there one airline that operated more flights than any other single airline for each week in this dataset? Create the following worksheet "**airline**" to solve this problem.

5) You would also like to know which states tend to experience the longest departure delays. Create the following worksheet **"map"** that visualizes the departure delay that you can expect in each origin state. Allow the user to filter by airline. Colors should range from <u>dark blue</u> for states with short departure delays to <u>dark red</u> for states with long departure delays.

6) Use two worksheets you created in the previous questions (i.e. **map** and **Holiday**) and organize them into the dashboard **"Map_holiday"** depicted below. Note that a selection on the right updates both worksheets.