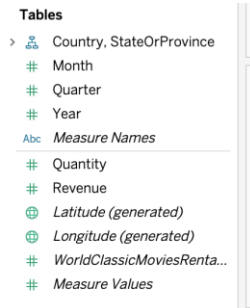


**1. Which column(s) serve as the measure(s)? Which column(s) serve as the dimension(s)?**

Dimensions: Country, State or Province, Month, Quarter and Year

Measures: Quantity, Revenue, Latitude(g) and Longitude(g)



The screenshot shows a table catalog with the following entries:

Tables	
>	Country, StateOrProvince
#	Month
#	Quarter
#	Year
Abc	Measure Names
#	Quantity
#	Revenue
⊕	Latitude (generated)
⊕	Longitude (generated)
#	WorldClassicMoviesRenta...
#	Measure Values

**2. Write an SQL query that can generate the data in the csv from the database. (check)**

```

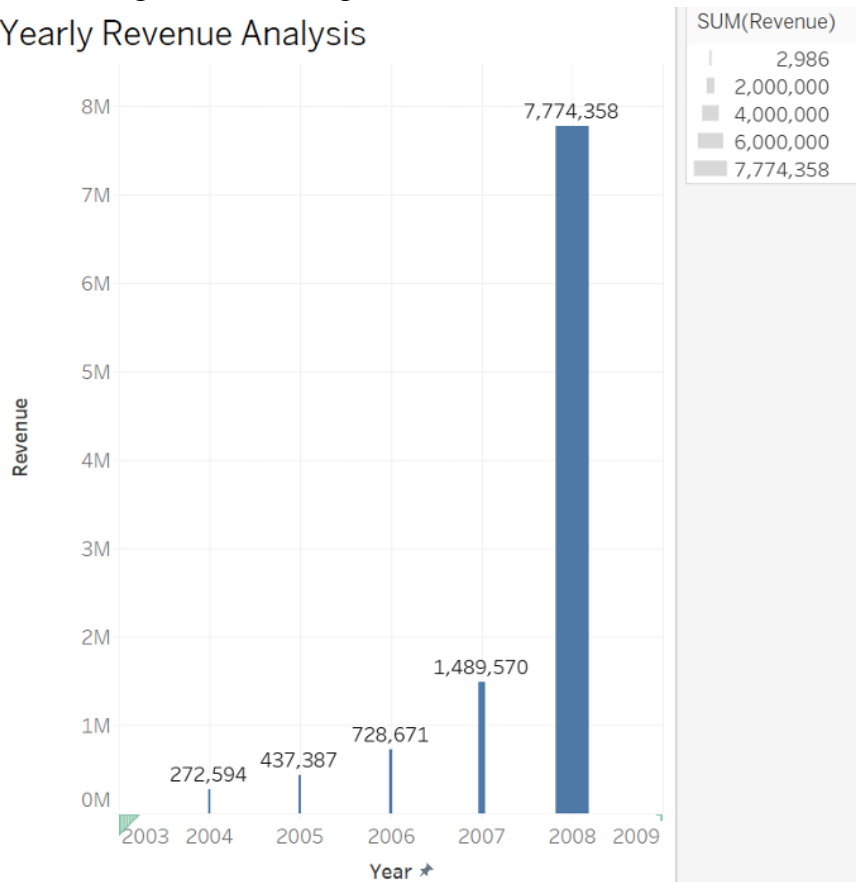
SELECT
    b.Year,
    b.Quarter,
    b.Month,
    c.Country,
    c.StateOrProvince,
    SUM(a.Revenue) AS Revenue,
    SUM(a.Quantity) AS Quantity
FROM
    FactTable AS a
JOIN
    TimeDimension AS b
    ON a.DateId = b.DateId
JOIN
    StateOrProvince AS c
    ON c.StoreId = a.StoreID
GROUP BY
    b.Year,
    b.Quarter,
    b.Month,
    c.Country,
    c.StateOrProvince;

```

**3. A) Which year generated the highest revenue?**

Year 2008 generated the highest revenue

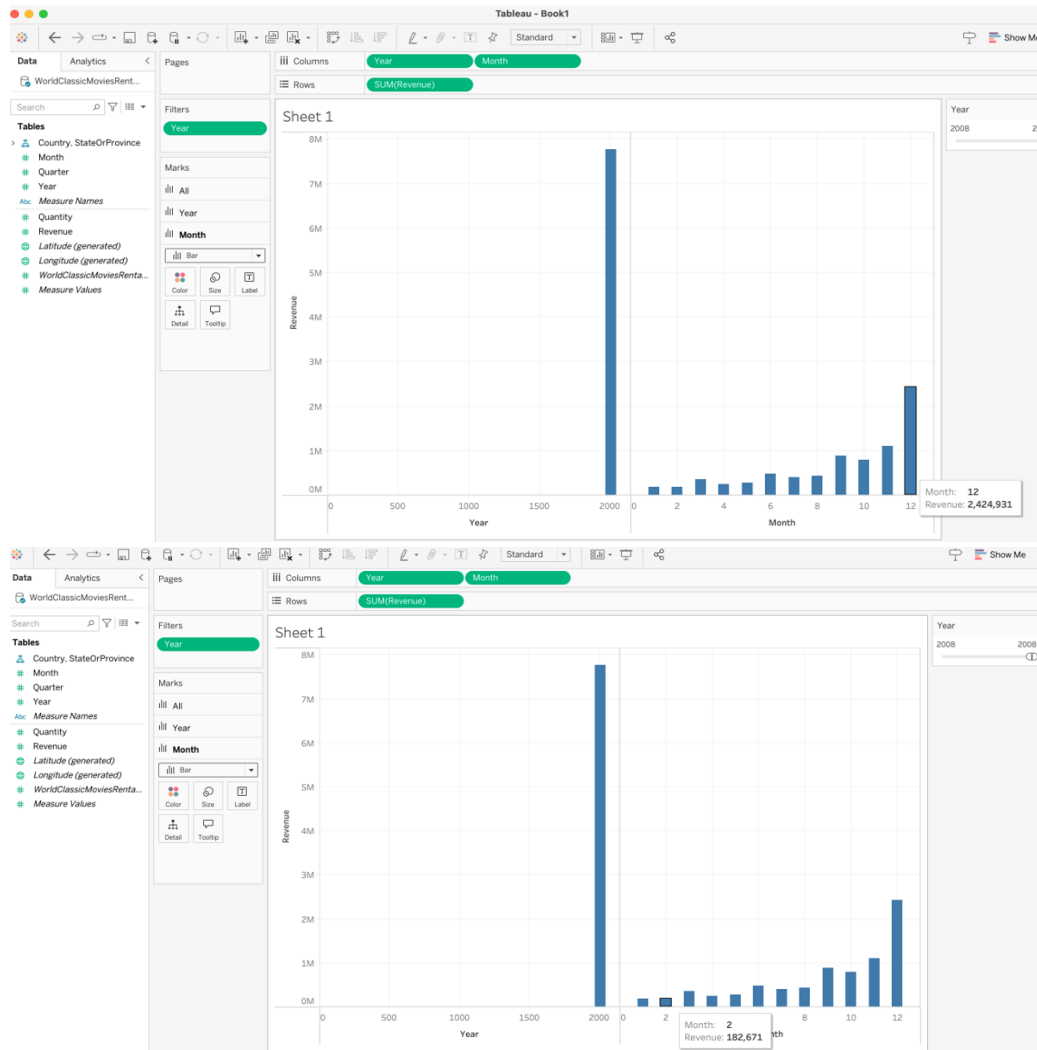
Yearly Revenue Analysis



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Homework – 5

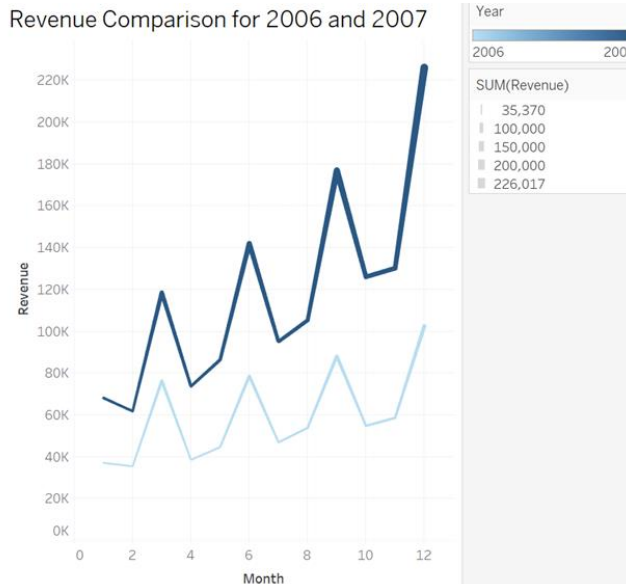
**B) In that year (answer from the previous question), which month generated the highest revenue and which month generated the lowest?**

Month 12 (December) generated the highest revenue whereas Month 2 (February) generated the lowest revenue.



**C) Show the revenue by month in country: “US” and year: 2006 and 2007. Do you find a similar seasonality in revenue in these two years?**

The revenue in 2006 is lower compared to 2007. However, both years show a consistent pattern in revenue fluctuations. For example, if a particular month in 2006 has lower revenue, the same month in 2007 also shows lower revenue. Similarly, if a month's revenue increases in 2006, the same happens in 2007. This indicates a similar seasonality, as the peaks and dips in revenue occur at the same times in both years.



**D) Which three states/provinces generated the highest revenue in the first two quarters of 2007?**

The states CA, TX and NY have the highest generated revenue in the first 2 quarters of 2007.

