**Individual Capstone Questions**

1. **Policy Term Analysis:** Most of our Commercial Lines policies are 12 month policies.  However, some policies are 6 month policies, which is our standard policy term for auto policies.  For policies active in a particular month, what are some of the differences in volume (policy count, earned or written premium amount) between the 6 month and the 12 month policies?   Are there any states, business types, or risk type codes that have more of one policy term type than the other?  What other differences can you find between the 6 month and 12 month policies?  Based on your analysis of current policy term, are there recommendations that you would make? –
   * **Past Assignments -** Cherie L King – Erik N Jones
2. **Channel Analysis:** Progressive sells insurance in both direct and agency channels.  What are some of the key differences between volume in direct and agency policies?  Do we sell more of one channel of policy by state, risk type, or business type?  Is one type growing faster than the other?  -
   * **Past Assignments** Deanna Crosby - Britt Shute-Orcutt
3. **PIF Growth Analysis:** Overall, the count of Commercial Lines policies went up in the time period of data provided (August 2022 through February 2023.)  Where do you notice that PIF counts grew (by state, risk type code, business type, channel, etc.) versus decreasing?   What policy attribute segments had the highest and lowest PIF growth in that time period?  Can you think of any macroeconomic factors that may have affected PIF growth? –
   * **Past Assignments** Zlatko Soldo- Anes Slijivo
4. **Years in Business Grouping Analysis:** This data includes a grouping for the years a company has been in business.  The companies that have been in business for a small amount of years are not grouped together, but companies in business between 6 and 10 years, 11 and 50 years, 51 to 100 years, and 100 to 400 years are grouped together, even though those grouping have a different number of years in them.   Based upon the behavior of the companies in these groups that you can see (volume, policy attributes, etc.), does this grouping for years in business make sense?   What are the benefits and drawbacks of the current grouping?  Would you propose a different grouping?  Why or why not?  -
   * **Past Assignments C**harles Battles- Ava P Ryan
5. **Market vs. Business Type Analysis:** Policies are grouped into a variety of different categories.  Compare and contrast the groupings for Market and Business Type.  Which attribute gives you more information about how to determine which segment is growing?  Is this different by state or channel or any other attribute?  -
   * **Past Assignments** Matthew-Singleton - Esequiel Caraballo
6. **State Comparison Analysis:** Select two states to analyze and compare and contrast the available metrics about that state.  (This could be done for multiple states!). delve into a more detailed analysis using the provided tables: Policy, Date, Coverage, State, Yrs, RMM, and BMT. –
   * **Past Assignments** Greg Walker- Charlonda M Bledsoe
7. **Risk Management and Product Segmentation Analysis**: Progressive operates in the insurance industry and collects extensive data on policies, including details related to coverage, risk management metrics (RMM), state of operation, policy tenure, and business types. They aim to gain deeper insights into their product portfolio's performance and risk profiles to inform strategic decision-making and enhance profitability. The objective is to conduct a comprehensive analysis of the company's insurance policies, segmenting them based on both product attributes and risk management metrics. This dual segmentation approach can help identify high-performing products, assess risk exposure, and prioritize risk mitigation efforts effectively. –
   * **Past Assignments** Chris Kimsey
8. ~~Looking at the East Zone (MI,RI,NY,NJ,VT,CT,ME,MA,PA,NH,FL) what is the loss ratio(LR) over the first 6 months of 2022 for the EZ, compare this to each state loss ratio(LR) who are the top and bottom 5 performing states? Which direction is each state's LR trending month over month (MoM), what would you recommend to improve performance? - Ivy~~

**Presentation Feedback:**

Need to ensure we are not missing any month’s data (or do we?)

Need to expand the database by 2 years to allow trends to be identified/compared for q1, q4 data comparisons

Need to consider maybe adding other CL data (BOP) to allow the participants to explore interproduct trends etc…

**Jermaine / Aleks Feedback:**

Keep the missing month’s data to provide an opportunity to show that not all data is clean/clear

Need to expand to 3 years

Ok to add more data but not sure how or where to add these data sets to support more complex questions/requests (need sue Franke’s opinion?)

**Current ADP Managers:**

Focus group information to calibrate expectations for exiting the program within inter-product to support capstone development.