## CASE COMPETITION INTRODUCTION

**Bruin Actuarial Society** 



#### AGENDA

- What to Know
- Prior to First Meeting
- Walkthrough
- Final Words and Tips



#### WHAT TO KNOW

- Underclassmen ≠ burdens
- Expect to spend long hours on the case
- There is no single correct solution

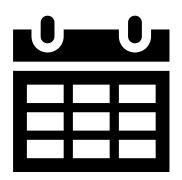






#### PRIOR TO FIRST MEETING

- Set aside a ton of time to meet up, and meet as early and as much as possible
- Decide how to meet in the virtual environment
  - You can set up meeting on zoom or another platform
- After you receive the case, read it thoroughly and come to first meeting ready to discuss
- Advice: Don't waste valuable group time reading the case







### WALKTHROUGH



#### 1) WRITE DOWN YOUR ACTION PLAN

- Prioritize more immediate tasks.
  - e.g. understanding the Excel workbook
- Look closely. The case might give you a to-do list!

#### 2020 Case:

- 1. Analyze the data by the bands provided. For each factor, consider if the win rates are intuitive. If so, explain the intuition. If not, explain why these results might've occurred.
  - (a) Assuming the same amount of utilization, what are some other factors that could cause one group to have a higher loss ratio than others?
  - (b) In the past, some groups with a higher loss ratio had a lower rate increase. Give some reasons as to why this might've occurred.



#### 2) LOOK FOR INFORMATION IN CASE

- Read any definitions and look up words and concepts you don't know
  - More experienced team members may be a good resource
- This will help with your overall understanding of the case as well as the to-do list

#### 2019 Case:

The company offers four main auto insurance coverages: Bodily Injury Liability (BI), Physical Damage Liability (PD), Comprehensive (COMP), and Collision (COLL).

Besides the "Driver Averaging", another common option used for driver level rating is called "Driver Assignment" – Each vehicle in the policy will be assigned to a primary driver, whose driver profile will be used to determine the driver level factors.



#### 3) EXAMINE DATA

- Comparing the data to your action plan, determine what information you need to know
  - Is there any terminology in the workbook you need to look up?
  - Do you understand what the data represents?
- Think about what you know and what you do not know. Discuss with your teammates
  what steps need to be taken to accomplish your task



#### 4) DELEGATE DUTIES APPROPRIATELY

- Excel isn't like Google Sheets where you can collaborate in real-time
- The person most experienced with Excel can be the "keeper" of the data
- People with design or research skills can work on other parts of the case in non-Excel roles
- Roles are fluid and are NOT strict



#### 4A) DEEP DIVE INTO EXCEL ROLE

- Rearrange data to best suit team's needs at different times
  - Ex: Between group meetings, the Excel person creates columns using COUNTIF to sort data
- Convene with rest of the team when there is a major obstacle to overcome
- Explain Excel procedures to another member (who may also be experienced with Excel) to catch potential errors



#### 4B) DEEP DIVE INTO NON-EXCEL ROLES

- Don't avoid Excel (e.g. may help fill in gaps)
- Research background info, like qualitative trends that may be associated with quantitative trends in data
- Discuss how to make certain calculations. Once everyone agrees on the methods, assign calculations to each person
- Create charts and graphics for the presentation



#### 4C) ROLES ARE NOT ISOLATED

- If multiple team members are experienced with Excel, you should swap roles
  periodically and check in with each other
- Non-Excel people can ask Excel person to determine useful numbers for calculations or to creates graphs to illustrate a point
- Excel person contributes to major discussions and must also agree with methods for calculations
- Non-Excel people can double check Excel person's work and progress



#### 4D) COLLABORATION BETWEEN ROLES

To work around the lack of real-time collaboration in Excel:

- Non-Excel people can make calculations and graphs in their own Excel sheets
- Individual sheets are sent to Excel person to be compiled into one central document
- Excel person regularly sends out consolidated sheets to the rest of the team so everyone has updated info to work with



#### 5) ASSIGN TASKS TO EACH PERSON

- Excel person starts organizing data in a useful manner
- Other team members select independent parts to work on
- Re-assign new tasks as they're completed
  - e.g. Researching qualitative trends, creating other figures, etc.
- For some tasks, it may be helpful to brainstorm together
  - Such as for tasks that require ideas, start by discussing the problem as a group
  - Then one person can develop the ideas further



#### 6) ASSIGN PARTS OF THE PRESENTATION

- Decide together on the theme and format of the presentation
- Each person create slides for their respective parts
  - This may be the parts they worked on and understand
- Send slides to one person who compiles them, making edits as needed, into a single uniform presentation
- Send the unified presentation out to the whole team



#### 7) ALL WRITE EXECUTIVE SUMMARY

- Use google docs for real-time collaboration may be a good idea
- Discuss content to be included and create an outline
- Assign each person a part to write
- Read over the entire summary individually and as a group, making edits as needed





#### 8) PRACTICE PRESENTING

- Decide who will present what slides
- Practice individually
  - Think about and practice gestures and body posture
  - It should sound natural and not like you are reading off a script
- Run through entire presentation as a group
  - Think about timing and transitions
  - Don't be afraid to give each other feedback
- When you are ready, record your presentation

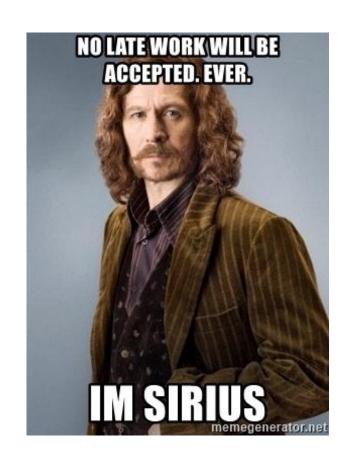






#### 9) SUBMIT DELIVERABLES ON TIME

- Include
  - Presentation slides
  - Executive summary
  - Excel workbook
  - Presentation video
- You can't compete with what you don't submit!





#### RECAP OF WALKTHROUGH

- 1) Write down action plan
- 2) Look for information/definitions
- 3) Examine data
- 4) Delegate duties
- 5) Assign tasks

- 6) Make the presentation
- 7) Write the executive summary
- 8) Practice presenting
- 9) SUBMIT DELIVERABLES



# FINAL WORDS AND TIPS



#### FINAL WORDS AND TIPS

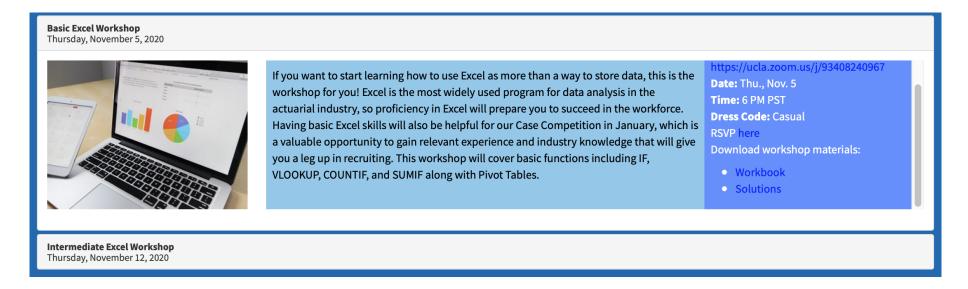
- Try your best and present ANYTHING you come up with, even if you don't think you have much to present
- There's nothing wrong with stating what you know and don't know
  - If you know you don't have time to do something, don't waste time on it; focus on getting something that CAN be presented
- Use presentations from previous years' finalists (found on BAS website) as examples





#### FINAL WORDS AND TIPS

- ABSOLUTELY talk to each other constantly
  - Explain thought process of Excel procedures, recommendations, conclusions, etc.
     to each other to reveal errors or details that were overlooked
- Keep a running list of any assumptions you make, calculation methodologies, etc.
- Don't stress over lack of Excel experience
  - Attend BAS Excel workshops and use workbooks on BAS website as a resource





#### FINAL WORDS AND TIPS

- Prepare for the unexpected
  - My team 100% didn't think we'd make it to the final round, but we ended up winning
  - Don't be intimidated out of doing the case competition!

The Case Competition is a worthwhile experience regardless of the outcome. What are you waiting for?



