Session Plan: Hands-on Project Lab session : Crime\_LA

**Learning Outcomes:**

* The objective of this session is to refresh all the critical concepts in SQL and Databases and to ask questions that can unblock your progress towards project completion.

**Agenda of the Session:**

* Recap of learnings from the SQL and Databases course
* Project Solution Approach
* Clarification of all the doubts related to the concepts involved in the solution

**Session Structure:**

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| **Duration** | **Topic** | **Details** |
| 5 min | Introduction and Learning Outcomes | * Explanation of the Session Structure and Learning Outcomes of the session |
| 25 min | Project Context and Objectives | * Go over the problem statement and explain the different sections mentioned in the problem statement. * Download the crime\_la\_sample\_QBR\_template.pdf file and explain how to create a presentation for the project * Download the crime\_la\_proj.zip file and explain the solution architecture, E-R diagram, and walkthrough of data along with data description. * Download the submission\_myname.sql file and give a quick walkthrough of the steps involved in the completion of the project and what types of questions can be asked in the project. * Refresh the concepts covered in the videos for the previous weeks. * Answer both conceptual and hands-on queries that the group might have. |
| 50 min | Hands-on Crime\_LA case study | * Download the submission\_myname\_solution.sql file and use it to summarise all of the concepts covered and proceed to write and run the SQL queries in the workbench. Explain each query, including the purpose, the syntax, and the result. * For the recommendation questions, in the end, connect the result to the business context and frame the recommendations as you would present them to the business stakeholders. * Download the crime\_LA.ipynb and explain how to create a plot for the presentation. * Download the Crime\_LA.pdf and explain what the final presentation looks like. |
| 20 min | Clarification of the doubts in Practice Exercises | * Clarify all doubts that the learners may have about the Practice quizzes or the videos of the week. |
| 15 min | Buffer Zone for Question and Answers | * Use this time to clarify any additional doubts. * Examples from the industry based on the mentor's experience. |
| 5 min | Summary of the  session | * Summary of the week with the key takeaways. * Next steps and how to practise what the group has learned over the last weeks. |

**Important points to note:**

* Log in for your session five minutes early and make sure you are ready with all the materials to be used for the session.
* Be well prepared for the session. Make sure to watch all the videos, related codes, and datasets.

**Power Ahead!**