Problem statement:

People all throughout Los Angeles are concerned about recent reports of crimes in numerous locations. The mayor of Los Angeles has established a new Criminal Investigation Division to study how and why crime is on the rise, as well as the elements that contribute to it, so that officials may take the necessary steps to keep the city's residents safe.

Objective:

As a member of the Analytics Division, you are aware that there are numerous questions that must be answered utilizing CID data. Import the dump file that contains various tables that are present in the database. Using the data, react to the questions and write a detailed report for the authorities to utilize in taking action against crimes in Los Angeles.

Data Description:

You have information on several types of crimes that occurred in different areas throughout Los Angeles: what was the crime, who was the victim, and where did the incident occur? What is the age of the victim and so on?

The data dictionary (crime_la.txt), which has detailed descriptions of each column, and the dump file (crime_la_dumpfile.sql), can be found in the same **data** folder. The **crime_la_proj.rar** file contains the data folder and the diagram folder which contains the ER diagram.

Solution Approach:

- Download the dump file present on Olympus and import it into MySQL.
- You can find the questions that need to be answered for the business in the project guideline document-submission_myname*.sql*.
- Once these questions have been answered by writing SQL queries, you can use those results to create the Weekly Business Report. Use the results from the queries***** to generate visuals in Python/Excel. A template report, *crime_la_sample_QBR_template.pdf,* has been uploaded to this module.

You can download the results of queries from SQL workbench using the download button as shown below:

Submission Guidelines:

There are two files that are expected in the submission of this project:

Script: This should have the *submission_myname.sql file which contains the below things-*

Note: Use the submission_myname.sql (project guideline document) and write all the codes in the same provided document and save it as a .sql file, called submission_myname.sql.

Slides: This should have the Quarterly Business Report in the form of a **.pdf**

- **In case the supporting file is not submitted, the assessment will be graded zero**

Any assignment found copied/plagiarized with other groups will not be graded and will be awarded zero marks.

Please ensure timely submission as any submission post-deadline will not be accepted for evaluation. Submission will not be evaluated if it is submitted post-deadline.

Best Practices for SQL Scripts:

- The solution script file should be well-documented, with comments (if needed) explaining the functionality of code or the observations and insights.
- It is important to have **no errors** before submission.
- It is recommended that you read the problem statement and go through the criteria and description mentioned in the rubric before starting the project.

Best Practices for Report/Presentation:

- The report should be made keeping in mind that the audience will be the top government officials.
- The presentation **can** contain additional charts apart from the questions answered in the project.
- The key points in the report should be the following:
  - Business Overview of the problem and solution approach
  - Key findings and insights in each section
  - Business recommendations that can drive decisions
- Focus on explaining the key takeaways in an easy-to-understand manner
- The **Weekly Report** should be submitted as a .**pdf** file

A business report template has been provided for reference. *It is **not** mandatory to make your presentation in the same style or manner as this sample report. You can get creative!*

Power Ahead!