**Dataset 1**

You have been provided with a database classicmodels.

About the dataset

The database schema consists of the following tables:

* Customers: stores customer’s data.
* Products: stores a list of scale model cars.
* ProductLines: stores a list of product line categories.
* Orders: stores sales orders placed by customers.
* OrderDetails: stores sales order line items for each sales order.
* Payments: stores payments made by customers based on their accounts.
* Employees: stores all employee information as well as the organization structure such as who reports to whom.
* Offices: stores sales office data.

1.SAVE all your queries in MYSQL as a script named queryDB1.sql

* Write two meaningful queries which uses different SQL operators and retrieves information from a single table in your database and save it in queryDB1.sql

For your PPT/Canva [See below]

* List aim of the queries you have created
* Explain the relevance of one of the queries for a business organisation in your PPT
* Include the SQL code [explain it] and the output of query in your PPT  
  [You may have a large results set; therefore, it is fine to show the first 5 rows of the result].
* Suggestion: Use no more than two slides.

\*\*Use meaningful names for columns in the output result set which users can understand

2.SAVE the queries in MYSQL in the same script as Task 1.2

* Write FOUR meaningful queries which uses JOIN and save it in queryDB1.sql

For your PPT/Canva [See below]

* List the objective of four queries you have created
* Explain relevance of one of the queries for a business organisation in your PPT
* Include the SQL code [explain it] and the output of query in your PPT  
  [You may have a large results set; therefore, it is fine to show the first 5 rows of the result].
* Suggestion: Use no more than two slides.

\*\*Use meaningful names for columns in the output result set which users can understand

3.SAVE the queries in MYSQL in the same script as Tasks before

* Write TWO meaningful queries having subqueries (any two of the following)
  + One query having a subquery in SELECT clause
  + One query having a subquery in FROM clause
  + One query having a subquery in WHERE clause

For your PPT/Canva [See below]

* List the objective of both queries you have created
* Explain the relevance of one of the queries for a business organisation in your PPT
* Include the SQL code [explain it] and the output of query in your PPT  
  [You may have a large results set; therefore, it is fine to show the first 5 rows of the result].
* Suggestion: Use no more than two slides.

\*\*Use meaningful names for columns in the output result set which users can understand

4.SAVE the queries in MYSQL in the same script as Tasks before

* Write TWO meaningful queries using windows function

For your PPT/Canva [See below]

* List the objective of both queries you have created
* Explain the relevance of one of the queries for a business organisation in your PPT
* Include the SQL code (explain it) and the output of query in your PPT  
  [You may have a large results set; therefore, it is fine to show the first 5 rows of the result].
* Suggestion: Use no more than two slides.

\*\*Use meaningful names for columns in the output result set which users can understand

5.Based on all the queries you have generated, propose FOUR INSIGHTS which are meant for organisation [include this in PPT only]

For e.g.:

* + About sales?
  + About employee reward programme?
  + In your PPT clearly state
    - the insight [WHAT],
    - WHO is it for
    - rationale (WHY, i.e., based on which query or queries)

Suggestion: USE no more than TWO-FOUR slides.

**Dataset 2**

You have been provided with a dataset from THE Green Future Index compiled by MIT Technology Review.

<https://www.technologyreview.com/2021/01/25/1016648/green-future-index/>

About the dataset

The Green Future Index is a ranking of 76 leading countries and territories on their progress and commitment toward building a low carbon future. It measures the degree to which their economies are pivoting toward clean energy, industry, agriculture, and society through investment in renewables, innovation, and green finance.

1.SAVE the queries in MYSQL in a script named queryDB2.sql

* Write FOUR meaningful queries which uses multiple tables

For your PPT/Canva [See below]

* List the objective of all the queries you have created
* Explain the relevance of any one of the queries for organisations/policymakers/people in general
* Include the SQL code [explain it] and the output of query in your PPT  
  [You may have a large results set; therefore, it is fine to show the first 5 rows of the result].
* Suggestion: Use no more than two-four slides.

\*\*Use meaningful names for columns in the output result set which users can understand

2.Based on all the queries you have create, propose TWO recommendations which are meant for business owners OR policy makers [government] OR people in general

For e.g.:

* + Recommendation for a country
  + Recommendation for a group of countries
  + In your PPT clearly state
    - What is the recommendation [WHAT],
    - WHO is it for
    - rationale for the recommendation (WHY you are recommending, i.e., based on which queries)

Suggestion: USE no more than TWO slides.

**Dataset 3**

1.Select any dataset available over the internet (e.g., one CSV file). Please ensure the dataset is meaningful to develop queries.

E.g., Source: <https://www.kaggle.com/datasets>

Example IMDB dataset: <https://www.kaggle.com/datasets/asaniczka/tmdb-movies-dataset-2023-930k-movies>

* Step 1: Create a new database in your MYSQL
* Step 2: Import the csv file to mysql workbench to create a table
* Step 3: Check everything in the table (column names and data) looks good
* Step 4: Use the database to develop queries

SAVE the queries in MYSQL as a script named queryDB3.sql

In your PPT/Canva

Explain the dataset used, show the contents of the table and briefly explain why this dataset is relevant to build queries.

2.SAVE the queries in MYSQL in the script named queryDB3.sql

* Write FOUR meaningful queries ,
  + One query should use group by clause
  + One query should use windows function
  + One query should use views
  + One query as you may like

For your PPT/Canva

* List the purpose of all the queries you have created
* Explain the relevance of any ONE query for business/policymaker/as applicabl
* Include the SQL code (explain it) and the output of queries in your PPT  
  [You may have a large results set; therefore, it is fine to show the first 5 rows of the result].
* Suggestion: Use no more than two-four slides.

\*\*Use meaningful names for columns in the output result set which users can understand

**Task 4**

* Please state TWO- FOUR things you have learnt, after working on this project
  + For e.g., this can include challenges you faced in the project and how your team overcame these challenges OR knowledge you have gained
* Suggestion: Use no more than ONE-TWO slides
* Keep the reflections brief and concise.