



Indium Academy Evaluation Details

SQL Common Program

- Project Based Assessment.

Note: This document is for educational purpose only for class discussion. This is being provided for learners in this SQL Common Program and not meant for circulation outside Indium Academy.

Implementation Document: Details

General Instructions: Key expectations

- The Capstone Project is a way to assess the learners understanding of the concepts discussed in the training. This is an evaluation which helps the Indium Academy to understand the capabilities across the learners by grouping them into the batches.
- The expectation here is that, according to the batch assignment the teammates should work as a community to share their views as per the demands of the project. The periodical review process will be there to present the progress work of each batch; accordingly, the members must submit the status and exhibit the implementations.
- Based on the given scenario the learners shall work together in a particular batch and collect the literature and identify the constructs to implement the project, it is highly expected that in every usage the optimized usage of the aspects and the benefit should be clearly mentioned.

Evaluation Concepts

This assessment focuses on your understanding and application of the below concepts:

- MySQL constructs SQL.
- Usage of – Constraints, Joins, Subqueries, and Possible Optimization techniques.

Implementation Document Structure

Challenge Statement

- Based on your understanding define the challenge statement and expectations for the given data sets.

Implementation Approach

- Showcase the application of the concepts, the rationale behind using the concept, assumptions and any alternatives that can be taken in future.

Evidence of Implementation

- Paste the key code snippets and outcomes achieved and highlight any other tools/integrations used based on your research.

Vehicle Booking Application

Problem Statement:

- Consider the scenario of Vehicle Booking System they provide services of local, rental based for the customers on demand.
- All the Implementations are in the context of MySQL.
 - Establish a schema to support the implementation.
 - Use draw.io(or any other suitable tool) to show the logical flow of the data.
 - Prepare the Tables like Vehicle Data, Customer_Requests, Bookings etc., with suitable constraints to store the records.
 - Populate the data and display the most frequently Booked Route in Chennai.
 - Display the Number of Customers who travelled **in each data and in each Route**
 - Display the Bookings count is >50 in each Day.
 - List out most booked type of Vehicle (SUV, Mini etc.,) in Bangalore City.
 - Display the 5 star rated driver details to initiate incentives by Company.
 - Comment your observations to suggest betterment customer experience.
 - Take any existing Vehicle Providers such as OLA, UBER etc., and observe the process of data base management and list out some of the important and possible implementations for our Project.

The submission document consists of the following:

- The Abstract of the Problem statement involves what is the problem, why you are implementing the problem and what is the outcome of the implementation.
- Literature of the existing methods.
- The proposed methodology like process models or Agile methodology.
- About the tools used in this case MySQL Objects like Tables, Views and Joins etc.,
- Implementation details with Code and Results.
- Test Cases
- Conclusion and Future scope of the project.

Outcome:

- The complete Documentation involves Analysis, Design, Coding, Results and Test Cases within 20 to 30 Pages.
- Presentation Document to Demonstrate the Flow of the Project with 15-20 Slides.
- The Documentation is the Major recordings of your day-to-day activities with Times new Roman, 12 Font with proper justification.
- The presentation should be in Indium Template and contains the preview of the entire implementation.

Note- You will be expected to share the code snippets as images, highlight the title and its significance to the outcome (According to the Guidelines given in the outcomes section)

Evaluation Methodology/Rubric

Sr. No	Evaluation Area	Evaluation Parameter	Score (1-5)
1	Challenge Statement	Definition of the challenge statement is clear and concise.	
2		The challenge statement is also able to understand of the business value.	
3	Analysis and Design Methodology	Flow diagram for the implementation	
4		Description of the components of the flow diagram with a rationale	
5	Code Snippets	Description of the code snippet to the expected outcome	
6		In line with the best practices shared	
7	Other Key Areas	Presentation of the understanding and meeting the guidelines	
8		Justify the suitability of the functions to the given requirement.	
9	Comments		

Note- the total score for the evaluation will be out of 100 and based on your approach to towards building on top the learning from the session. Some mentor comments may be shared if necessary.