

Assignment 4

Semester: Spring 2023

Submission deadline: 20th March 2023 at 14:00.

Objective of this compulsory assignment

This assignment is about developing REST APIs for database interactivity:

- Connect the Python environment with a MySQL database
- Develop REST APIs for database interactivity

Submission Instructions

Upload your document in pdf format along with your code under Assignment 4 by 20th March. You should also submit your Python file as well. The document should contain the screenshot of output from Postman.

Prerequisites

We will be using the MySQL database and phpMyAdmin setup used in **Assignment 1**. If you do not have this setup already, refer to **Assignment 1** for more instructions. You have already been given tutorial for setting up Python environment and developing a GET APIs using Flask in python. You have to use same scheme provided in Assignment 1.

You have to make REST APIs for following queries!

1. Retrieve the customers who are living in “Trondheim” (Returns 5 records)
2. Retrieve the customers who have their domain (.com) (Returns 5 records)
3. Retrieve the information of loans given to the customers in each branch between 2019-06-01 and 2020-06-01. (Returns 4 records)
4. Retrieve the youngest customer who has taken a loan. (Returns 1 record)
5. Write a SQL query that retrieves customers without any loans. (Returns 4 records)

Make all APIs in single python file, you can use any IDE like VSCode or PyCharm. Once you APIs are running test the output with Postman application.