Lab Assignment 8

Write a program in python which performs the following tasks on MySQL. Also ensure that you use github for version control. Specifically use the commands commit, branching etc to manage your work.

1) Given input as salary of three months (jan, feb, march), write a program that returns the total salary for quarter 1 (Q1).
2) Commit your work on github
3) Create table 'instructor' with the columns as ID, name, dept_name, salary, age. Add the following tuples to the table.

   (10101,'Srinivasan','Comp. Sci.',65000, 34),

   (12121,'Wu','Finance',90000, 38),

   (15151,'Mozart','Music',40000, 45),

   (22222,'Einstein','Physics',95000, 55)

   OR

4) Alter the existing instructor table and add a column of age and fill in the values in it.
5) Create a function that helps distinguish whether an instructor is eligible for sabbatical or not. An instructor can avail sabbatical only if his/her age is greater than 40. So, write a program that takes as input an integer (representing age) and returns affirmatively if the integer is greater than 40.
6) Commit your work on github.
7) Find all instructors who can avail sabbatical from the database.
8) Commit your work on github.
9) Add columns of monthly salary, exemptions, taxes, gross_salary etc.

Small Project

Create a python program/application which asks users to fill up a form (say name, address, contact number etc) and inserts those values into a corresponding table in a database. Use git to manage the code. Further allow each users to edit their entry and view only name & contact number of other applicants.