Dataset Explanations

Attributes

1) id - Assigned number for Project head who will be in charge of the

project.

2) name - person handling the project.

3) gender – Male(M), Female(F)

4) city - locations of the project

5) age - number of years the project will be active.

6) status - status of the project

7) designation level - position of the project head

o excessive failures indicate designation grades to reduce.

o a person with a good reputation means a very high chance to

increase his designation.

Designation scale -

a) 1-highest

b) 2, 3 mid positions and 4 being the least

c) If anyone crosses 4 then he loses eligibility

for heading the project.

Project DataFrame

ID Project Cost Status

A001 Project 1 1002000 Finished

A002 Project 2 2000000 Ongoing

A003 Project 3 4500000 Finished

A004 Project 4 5500000 Ongoing

A005 Project 5 Finished

A002 Project 6 680000 Failed

A005 Project 7 400000 Finished

A003 Project 8 350000 Failed

A001 Project 9 Ongoing

A003 Project 10 300000 Finished

A001 Project 11 2000000 Failed

A004 Project 12 1000000 Ongoing

A004 Project 13 3000000 Finished

A005 Project 14 200000 Finished

Employee DataFrame

ID Name Gender City Age

A001 John Alter M Paris 25

A002 Alice

Luxumberg F London 27

A003 Tom

Sabestine M Berlin 29

A004 Nina Adgra F Newyork 31

A005 Amy Johny F Madrid 30

Seniority Level DataFrame

ID Designation Level

A001 2

A002 2

A003 3

A004 2

A005 3

Problems

Task 1

There are three different tables as given above. Please make three dataframe in python

and save them as three .csv files. From Task 2 to Task 10, use the saved .csv files only.

Task 2

The cost column in the dataframe “Project” has some missing values. Your task is to

compute these missing values. Replace the missing values by running average. You

should use the “For” loop for this task.

Task 3

Split the name column in the Employee dataframe into two new columns “First Name”,

and “LastName” and remove the older “name” column.

Task 4

Join all three dataframes in one single dataframe. Name it “Final”

Task 5

Add a new bonus column in the Final dataframe. Give a 5% bonus concerning project

cost only to employees who have finished the projects.

Task 6

Demote the designation level by 1, whose projects have status “fail”. Delete the

employees record whose designation level is above 4.

Task 7

Add “Mr.” and “Mrs.” to the first name column and drop the gender column.

Task 8

Promote designation level by 1 for the employees whose age is more than 29 years using

IF condition.

Task 9

Add the cost of all projects for each Employee and save it in new dataframe

“TotalProjCost” with three columns ID, First Name, and Total cost

Task 10

Print all the employee details whose city name contains the letter “o” in it.