EXCELR
Raising Excellence

Data Analyst Assignments

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1. Write a Pandas program to select the specified columns and rows from a given data frame. Go to the editorSample Python dictionary data and list labels:

Select 'name' and 'score' columns in rows 1, 3, 5, 6 from the following data frame.

exam_data = {'name': ['Anastasia', 'Dima', 'Katherine', 'James', 'Emily', 'Michael', 'Matthew', 'Laura', 'Kevin', 'Jonas'],

score': [12.5, 9, 16.5, np.nan, 9, 20, 14.5, np.nan, 8, 19],

attempts': [1, 3, 2, 3, 2, 3, 1, 1, 2, 1],

qualify': ['yes', 'no', 'yes', 'no', 'no', 'yes', 'yes', 'no', 'no', 'yes']}

labels = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j']

Expected Output:

Select specific columns and rows:

name score

b Dima 9.0

d James NaN

f Michael 20.0

g Matthew 14.5

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2. Use Crime dataset from LMS

I) find the aggregations like all moments of business decisions for all columns,value counts.

II) do the plottings like plottings like histogram, boxplot, scatterplot, barplot, piechart,dot chart.

3. use mtcars dataset from LMS

A) delete/ drop rows-10 to 15 of all columns

B)drop the VOL column

C)write the forloop to get value_counts of all cloumns

4. Use Bank Dataset from LMS

A)change all the categorical columns into numerical by creating Dummies and using label encoder.

B) rename all the column names DF

C) Rename only one specific column in DF

5. After doing all the changes in bank data(Q19). save the file in your directory in Csv Format.