Assignment: Accessing and Modifying Data

Question 1:

Retrieve the English score of 'Charlie'.

Solution: df.loc[2, 'English Score']

Question 2:

Get the Math scores of all students.

Solution: df[['Name','Math Score']]

Question 3:

Access the English score of the first student.

Solution: df.iloc[0,2]

Question 4:

Retrieve the Math score of the last student

Solution: df.iloc[-1,1]

Question 5:

Update Bob's Math score to 95

Solution: df.loc[1,'Math Score']=95

Question 6:

Increase Charlie's English score by 5 points

Solution: df.loc[2,'English Score'] = df.loc[2,'English Score'] +5

Question 7:

Add a new row for 'Eve' with Math Score 88 and English Score 95

Solution: df.loc[4] = ['Eve', 88,95]

Question 8:

Delete the row for 'David' from the DataFrame

Solution: df.drop(labels=3,inplace=True)

Question 9:

Insert a new column called 'Science Score' with values [92, 84, 89, 78]

Solution:

values = [92,84,89,78]

df.insert(loc=3, column = 'Science Score', value = values)

Question 10:

Delete the 'English Score' column from the DataFrame

Solution: del df['English Score']

Question 11:

Create a new column 'Total Score' that represents the sum of Math Score and English Score for each student.

Solution:

totals = df['Math Score']+df['Science Score']

df.insert(loc=3, column='Total Score', value = totals)

Question 12:

Find the student with the highest Total Score

Solution:

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df[['Name','Total Score']].max()
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