

**BMAN73701 Programming in Python for Business Analytics 2023-24 1st Semester**

Course Content Week 4, Lecture 2 (Xian Yang): Data Tidying and Preprocessing

Review Test Submission: Self Check: L8-Data Preprocessing

## Review Test Submission: Self Check: L8-Data Preprocessing

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Course	BMAN73701 Programming in Python for Business Analytics 2023-24 1st Semester
Test	Self Check: L8-Data Preprocessing
Started	29/11/23 10:00
Submitted	29/11/23 10:04
Status	Completed
Attempt Score	30 out of 30 points
Time Elapsed	4 minutes
Results Displayed	All Answers, Submitted Answers, Correct Answers, Feedback

**Question 1**

10 out of 10 points

When faced with a data analytics problem, in which order should you perform the following steps?

**Answers**

- ✓ 1. Read/Access the data
- ✓ 2. Arrange (split, combine, group) the data in the appropriate format (Data Wrangling)
- ✓ 3. Transform / preprocess the data
- ✓ 4. Create a visualisation or apply statistics/machine learning

Response Feedback: Correct!

**Selected Answer**

- ✓ 1. Read/Access the data
- ✓ 2. Arrange (split, combine, group) the data in the appropriate format (Data Wrangling)
- ✓ 3. Transform / preprocess the data
- ✓ 4. Create a visualisation or apply statistics/machine learning

← OK

## Question 2

10 out of 10 points

df\_A

<b>Model</b>	<b>Store</b>	<b>Sales</b>
'X'	1	1.5
'X'	2	2.5
'X'	3	3.5
'Y'	1	4.5
'Y'	2	5.5
'Y'	3	6.5

df\_B

	<b>Store</b>		
<b>Model</b>	<b>1</b>	<b>2</b>	<b>3</b>
'X'	1.5	2.5	3.5
'Y'	4.5	5.5	6.5

Given the two dataframes above, complete the command below to convert from df\_A to df\_B ?

df\_B = df\_A.**[Q1]**(index=**[Q2]**, columns=**[Q3]**, values=**[Q4]**)

Specified Answer for: Q1 pivot

Specified Answer for: Q2 'Model'

Specified Answer for: Q3 'Store'

Specified Answer for: Q4 'Sales'

**Correct Answers for: Q1**

Evaluation Method	Correct Answer	Case Sensitivity
Exact Match	pivot	Case Sensitive

**Correct Answers for: Q2**

Evaluation Method	Correct Answer	Case Sensitivity
Pattern Match	"Model"   'Model'	

**Correct Answers for: Q3**

Evaluation Method	Correct Answer	Case Sensitivity
Pattern Match	"Store"   'Store'	

**Correct Answers for: Q4**


Evaluation Method	Correct Answer	Case Sensitivity
Pattern Match	"Sales"   'Sales'	


Response Feedback: Correct!


## Question 3


10 out of 10 points


```
import [q1] as pd
from [q2] import [q3]
x = pd.read_csv(filename)
scaler = [q4].MaxMinScaler()
x_scaled = [q5].fit_transform([q6])
```

Specified Answer for: q1  pandas

Specified Answer for: q2  sklearn


Specified Answer for: q3  preprocessing

Specified Answer for: q4  preprocessing


Specified Answer for: q5  scaler

Specified Answer for: q6  x


#### Correct Answers for: q1

Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	pandas	Case Sensitive


#### Correct Answers for: q2

Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	sklearn	Case Sensitive


#### Correct Answers for: q3

Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	preprocessing	Case Sensitive


#### Correct Answers for: q4

Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	preprocessing	Case Sensitive

#### Correct Answers for: q5

Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	scaler	Case Sensitive

#### Correct Answers for: q6

Evaluation Method	Correct Answer	Case Sensitivity
 <i>Exact Match</i>	x	Case Sensitive

Response Feedback: Very good

Wednesday, 29 November 2023 10:04:51 o'clock GMT