## **■** 13. Case Study in Python

## **Case Study in Python**

Use the Jupyter notebook to analyze admission\_data.csv to find the following values and for the quizzes below. Indexing, query, and groupby may come in handy!

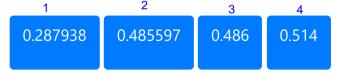
- 1. Proportion and admission rate for each gender
- 2. Proportion and admission rate for physics majors of each gender
- 3. Proportion and admission rate for chemistry majors of each gender
- 4. Admission rate for each major

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### QUIZ QUESTION::

Match the correct values

#### **ANSWER CHOICES:**



Feature	Value
Proportion of students that are female	4
Proportion of students that are male	3
Admission rate for females	1
Admission rate for males	2

By only looking at gender and admission rates, who appears to be favored in the

aumissions process:		
○ Females		
Males		
QUIZ QUESTION::		
Match the correct values		
ANSWER CHOICES:  3 4		
0.742 0.121 0.926 0.516		
Feature		Value
Proportion of females with physics majors		2
Proportion of males with physics majors	It should be : 0.87890625	3
Admission rate for female physics majors		1
Admission rate for male physics majors		4
Of the students applying as physics mapprocess?	ajors, who appears to be favored in th	e admissions
Females		
○ Males		
Who tends to have more physics major	rs than chemistry majors?	
○ Females		
Males		

# Match the correct values **ANSWER CHOICES:** 0.879 0.226 0.074 0.111 **Value Feature** Proportion of females with chemistry majors It should be: 0.9262295081967213 4 Proportion of males with chemistry majors 2 Admission rate for female chemistry majors Admission rate for male chemistry majors 3 Of the students applying as chemistry majors, who appears to be favored in the admissions process? Females ○ Males : Who tends to have more chemistry majors than physics majors? Females ○Males Which major has a lower admission rate? O Physics Chemistry

**QUIZ QUESTION:**:

