

≡ 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

QUIZ QUESTION::

Match the correct values

ANSWER CHOICES:

0.287938

0.485597

0.486

0.514

| Feature | Value |
|--|----------|
| Proportion of students that are female | 0.514 |
| Proportion of students that are male | 0.486 |
| Admission rate for females | 0.287938 |
| Admission rate for males | 0.485597 |

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

admissions process:

☐ Females

☒ Males

QUIZ QUESTION::

Match the correct values

ANSWER CHOICES:

- 0.742
- 0.121
- 0.926
- 0.516

| Feature | Value |
|---|-------|
| Proportion of females with physics majors | 0.121 |
| Proportion of males with physics majors | 0.926 |
| Admission rate for female physics majors | 0.742 |
| Admission rate for male physics majors | 0.516 |

Of the students applying as physics majors, who appears to be favored in the admissions process?

☒ Females

☐ Males

Who tends to have more physics majors than chemistry majors?

☐ Females

☒ Males

QUIZ QUESTION::

Match the correct values

ANSWER CHOICES:

- 0.226
- 0.074
- 0.111
- 0.879

| Feature | Value |
|---|-------|
| Proportion of females with chemistry majors | 0.879 |
| Proportion of males with chemistry majors | 0.074 |
| Admission rate for female chemistry majors | 0.226 |
| Admission rate for male chemistry majors | 0.111 |

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?

- ☐ Physics
- ☒ Chemistry

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