Mini–Project Week 3
Output

Step 1: Import packages

```python
import polars as pl
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

Step 2: Load dataset

```python
df = pl.read_csv("gss2.csv", infer_schema_length=10000)
```

Step 3: Describe data frame

```python
print(df.median())
print(df.describe())
```

```
shape: (1, 12)

| region | income | happy | age  | … | wrkstat | partyid | sex  | year   |
| ---    | ---    | ---   | ---  |   | ---     | ---     | ---  | ---    |
| str    | str    | str   | str  |   | str     | str     | str  | f64    |

| null   | null   | null  | null | … | null    | null    | null | 1993.0 |

shape: (9, 13)

| describe   | region         | income        | happy      | … | wrkstat          | partyid           | sex    | year        |
| ---        | ---            | ---           | ---        |   | ---              | ---               | ---    | ---         |
| str        | str            | str           | str        |   | str              | str               | str    | f64         |

| count      | 53474          | 53474         | 53474      | … | 53474            | 53474             | 53474  | 53474.0     |
| null_count | 0              | 0             | 0          | … | 0                | 0                 | 0      | 0.0         |
| mean       | null           | null          | null       | … | null             | null              | null   | 1991.954894 |
| std        | null           | null          | null       | … | null             | null              | null   | 10.948351   |
| min        | E. NOR. CENTRAL| $1000 TO 2999 | DK         | … | KEEPING HOUSE    | IND NEAR DEM      | FEMALE | 1973.0      |
| 25%        | null           | null          | null       | … | null             | null              | null   | 1983.0      |
| 50%        | null           | null          | null       | … | null             | null              | null   | 1993.0      |
| 75%        | null           | null          | null       | … | null             | null              | null   | 2002.0      |
| max        | W. SOU. CENTRAL| REFUSED       | VERY HAPPY | … | WORKING PARTTIME | STRONG REPUBLICAN | MALE   | 2010.0      |
```

Step 4: Visualization