Practice Exercises

1. Load the dataset from `"https://raw.githubusercontent.com/mwaskom/seaborn-data/master/tips.csv"`
2. Show first 10 rows
3. Display columns and data types
4. Show average tip given per day
5. Find max tip amount and who gave it
6. Add a column `Tip_Percent = (tip / total_bill) * 100`
7. Show only rows where tip percentage > 20
8. Group by gender and find average total_bill

Question 2
https://raw.githubusercontent.com/ybifoundation/Dataset/main/EmployeeAttrition.csv

1. Display the first 8 rows of the dataset and check the total number of columns.
2. How many employees are working in each **Department**?
3. What is the average **MonthlyIncome** and **YearsAtCompany** for the whole company?
4. List all employees who have **Attrition = "Yes"** and also work **OverTime = "Yes"**.
5. Show the average **MonthlyIncome** for each **JobRole**.
6. Find the **maximum, minimum, and average Age** of employees in the dataset.
7. Which **EducationField** has the highest average salary?
8. Find all employees with **MonthlyIncome > 15000** and **PerformanceRating = 4**.

9. Add a new column `IncomeCategory`:

- “Low” if MonthlyIncome < 5000
- “Medium” if between 5000 and 10000
- “High” if >10000

10. For each `IncomeCategory`, find the percentage of employees who left the company (`Attrition = "Yes"`).

11. Group employees by `Department` and `Gender`, and count how many are in each group.

12. Find the top 10 employees with the **highest MonthlyIncome**.

13. Among employees with `OverTime = "Yes"`, find the **average PerformanceRating** and **YearsAtCompany**.