**🧪 Exercise Set for EDA Practice (using the Fake Customer Dataset)**

**🧼 Basic Exploration**

1. Load the dataset into a pandas DataFrame.
2. View the first 10 rows.
3. Check the data types of all columns.
4. Count how many missing values there are per column.
5. Get a summary of the numeric columns (mean, std, min, max, etc.).

**📊 Univariate Analysis**

1. What are the unique values in the Region column, and how many customers are in each?
2. What is the distribution of ServicePlan?
3. Calculate the churn rate (% of customers with Churned = 1).
4. Plot a histogram of AnnualRevenue.

**📈 Bivariate Analysis**

1. What is the average AnnualRevenue by Region?
2. Compare TenureMonths for churned vs. non-churned customers.
3. Does average AnnualRevenue differ across ServicePlan?

**🧠 Advanced (Optional)**

1. Create a new column: RevenuePerMonth = AnnualRevenue / TenureMonths.
2. Fill missing AnnualRevenue with the mean value for their region.
3. Find the correlation between AnnualRevenue, TenureMonths, and Churned.