**Introduction**

We've explored various Pandas methods such as .unique () and .value\_counts () to gain insights into our dataset. Now, let's delve into another powerful tool: the Pandas **group by function**.

This function allows us to group our data based on specific criteria, opening up opportunities for in-depth analysis.

**Learning Objectives:**

Understand the purpose and functionality of the **group by function** in Pandas.

* Apply the **group by function** to group data based on certain columns.
* Utilize aggregation functions to extract meaningful information from grouped data.

**Exercise**

Put your newfound knowledge into practice by answering the following questions using the **group by function**:

**Average Loan Amount by Education Level:**

Utilize the group by function to find the average loan amount for each education level in our dataset.

**Count of Loans by Marital Status:**

Practice grouping data by marital status using group by and determine the count of loans for each marital status.

**Maximum Credit Score by Employment Type:**

Extend your skills by grouping data based on employment type and finding the maximum credit score within each group.

**Total Income and Average DTIRatio by Loan Purpose:**

Apply the group by function to calculate the total income and average DTIRatio for each loan purpose.

**Percentage of Defaults by Education Level:**

Challenge yourself by calculating the percentage of defaults for each education level using the **group by function**.

**N:B** All the columns are in the data we used yesterday