4.7.7 Create a District Summary DataFrame

Maria is eager to see the district summary so that she can pass the information along to stakeholders. You'll need to combine all of the metrics we just calculated and put them in a new DataFrame to provide Maria with a table that contains all the data.

Now that we have performed all the calculations needed for the district summary, let's add the following values and columns to a new DataFrame named `district_summary_df`.

- Total number of schools in the column "Total Schools"
- Total number of students in the column "Total Students"
- Total budget in the column "Total Budget"
- Average reading score in the column "Average Reading Score"
- Average math score in the column "Average Math Score"
- Percentage of students passing reading in the column "% Passing Reading"
- Percentage of students passing math in the column "% Passing Math"

- Overall passing percentage in the column "% Overall Passing"

REWIND

Remember, one way to create a new DataFrame is to convert a list of dictionaries to a DataFrame.

To create `district_summary_df` DataFrame, we can create a list of dictionaries, where the keys are column names and the values are the metrics we calculated. We do this because the DataFrame has no index, and lists have natural indexing.

Add the following code to a new cell and run the cell.

```
# Adding a list of values with keys to create a new DataFrame.
district_summary_df = pd.DataFrame(
          [{"Total Schools": school_count,
          "Total Students": student_count,
          "Total Budget": total_budget,
          "Average Math Score": average_math_score,
          "Average Reading Score": average_reading_score,
          "% Passing Math": passing_math_percentage,
         "% Passing Reading": passing_reading_percentage,
        "% Overall Passing": overall_passing_percentage}])
district_summary_df
```

When we execute this code, we get the following district summary DataFrame.

	Total Schools	Total Students	Total Budget	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
0	15	39170	24649428	78.985371	81.87784	74.980853	85.805463	65.172326