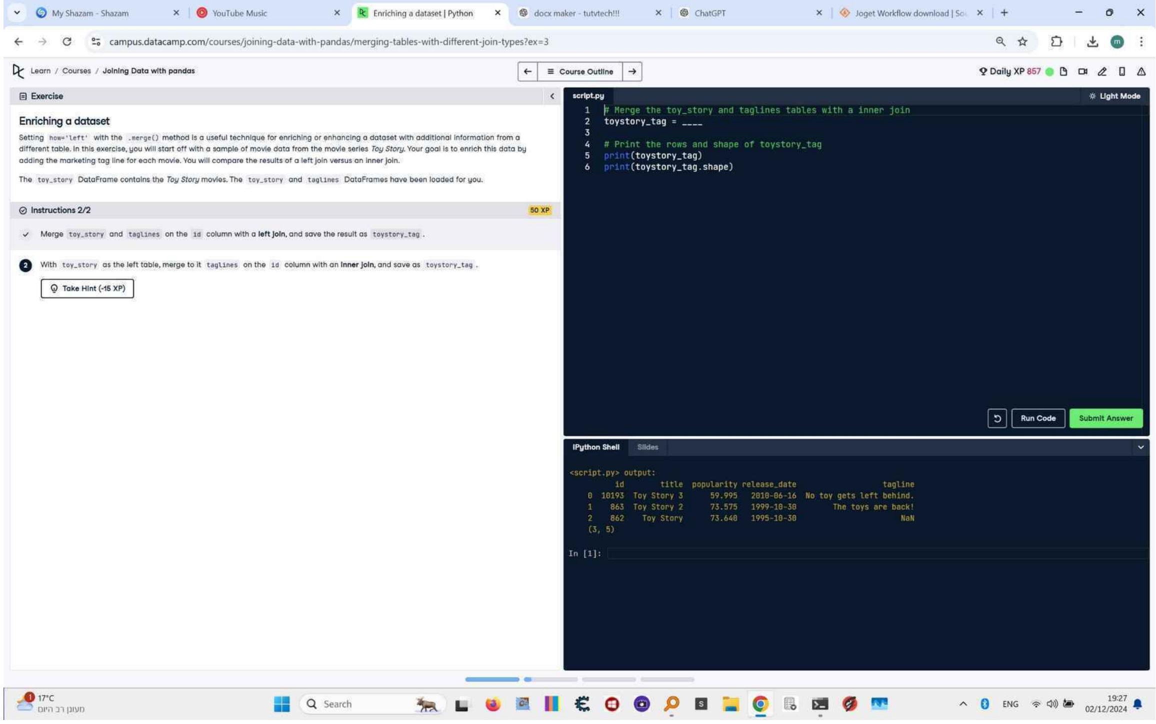
Enriching a Dataset - Inner Join Implementation



Enriching a dataset

Setting `how='left'` with the `.merge()` method is a useful technique for enriching or enhancing a dataset with additional information from a different table. In this exercise, you will start off with a sample of movie data from the movie series *Toy Story*. Your goal is to enrich this data by adding the marketing tag line for each movie. You will compare the results of a left join versus an inner join.

The `toy_story` DataFrame contains the *Toy Story* movies. The `toy_story` and `taglines` DataFrames have been loaded for you.

✓ Merge `toy_story` and `taglines` on the `id` column with a **left join**, and save the result as `toystory_tag`.

2 With `toy_story` as the left table, merge to it `taglines` on the `id` column with an **inner join**, and save as `toystory_tag`.

```
# Merge the toy_story and taglines tables with a inner join
toystory_tag = ____

# Print the rows and shape of toystory_tag
print(toystory_tag)
print(toystory_tag.shape)
```

```
<script.py> output:
        id        title  popularity release_date                 tagline
    0  10193  Toy Story 3      59.995   2010-06-16  No toy gets left behind.
    1    863  Toy Story 2      73.575   1999-10-30      The toys are back!
    2    862    Toy Story      73.640   1995-10-30                     NaN
    (3, 5)

In [1]:
```

Question:

In this exercise, you are tasked with enriching a dataset of movies from the Toy Story series by adding taglines using the `merge` method. You will perform an inner join and analyze the resulting DataFrame.

Instructions:

1. Merge the `toy_story` and `taglines` tables using an inner join on the `id` column.
2. Save the resulting DataFrame to `toystory_tag`.
3. Print the contents and the shape of the resulting DataFrame.

Answer:

```
# Step 1: Merge `toy_story` and `taglines` with an inner join
toystory_tag = toy_story.merge(taglines, on='id', how='inner')

# Step 2: Print the rows and shape of the merged DataFrame
print(toystory_tag)
print(toystory_tag.shape)
```

Explanation of the Code:

1. `toy_story.merge(taglines, on='id', how='inner')`: This performs an inner join between the `toy_story` and `taglines` tables on the `id` column. It

ensures that only rows with matching `id` values in both tables are included in the result.

2. `print(toystory_tag)`: Displays the contents of the merged DataFrame to verify the inner join operation.

3. `print(toystory_tag.shape)`: Outputs the shape of the resulting DataFrame (number of rows and columns), which can be used to verify that only matching rows are included.