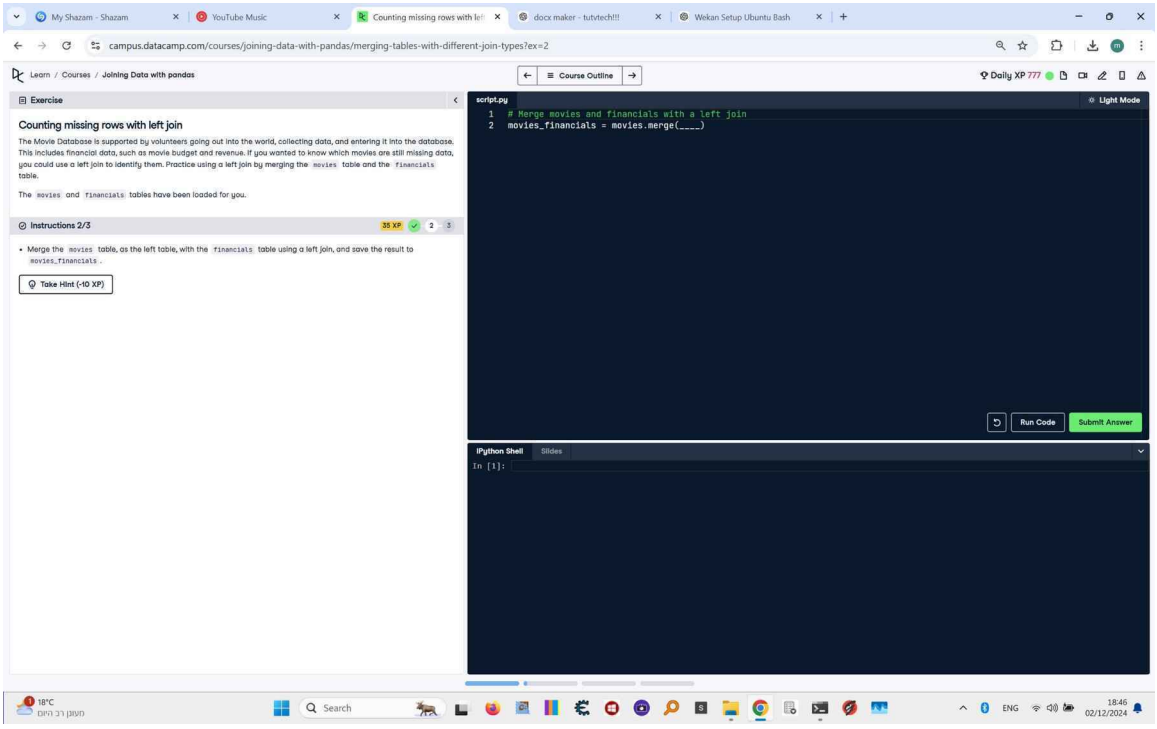
Counting Missing Rows with Left Join



Question:

The Movie Database is supported by volunteers collecting and entering data into the database. This data includes financial information such as movie budgets and revenue. Your task is to merge the `movies` table with the `financials` table using a left join, to identify movies that are missing financial data.

Instructions:

1. Use the `movies` table as the left table and merge it with the `financials` table.
2. Perform a left join using the `merge()` method.
3. Save the result to a variable named `movies_financials`.

Answer:

```
# Merge `movies` and `financials` with a left join
movies_financials = movies.merge(financials, on='id', how='left')

# Print the first few rows of the merged DataFrame to verify the join
print(movies_financials.head())
```

Explanation of the Code:

1. `movies.merge(financials, on='id', how='left')`: This merges the `movies` table with the `financials` table on the `id` column, using a left join. The `id` column serves as the key to match records between the two tables.

2. `how='left'`: Specifies that all rows from the `movies` table (left table) should be included in the result, even if there is no matching record in the `financials` table. Missing values in unmatched rows will be represented as `NaN`.

3. `print(movies_financials.head())`: Displays the first few rows of the merged DataFrame to verify that the join has been performed correctly.