

## Comparing Salaries by Location

This exercise involves comparing the average salaries of employees in the USA and Great Britain (GB). A subset of the data is created to include only employees from these locations, and a bar plot is used to visualize the average salary by location.

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Exercise

### Comparing salaries

Exploratory data analysis is a crucial step in generating hypotheses!

You've had an idea you'd like to explore—do data professionals get paid more in the USA than they do in Great Britain?

You'll need to subset the data by "Employee\_Location" and produce a plot displaying the average salary between the two groups.

The salaries DataFrame has been imported as a pandas DataFrame.

pandas has been imported as pd, matplotlib.pyplot as plt and seaborn as sns.

Instructions 100 XP

- Filter salaries where "Employee\_Location" is "US" or "GB", saving as usa\_and\_gb.
- Use usa\_and\_gb to create a barplot visualizing "Salary\_USD" against "Employee\_Location".

💡 Take Hint (-30 XP)

script.py Light Mode

```
1 # Filter for employees in the US or GB
2 usa_and_gb = salaries[salaries["Employee_Location"].isin(["US", "GB"])]
3
4 # Create a barplot of salaries by location
5 sns.barplot(data=usa_and_gb, x="Employee_Location", y="Salary_USD")
6 plt.show()
```

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IPython Shell Slides

In [1]:

## Answer

```
# Filter for employees in the US or GB
usa_and_gb = salaries[salaries['Employee_Location'].isin(['US', 'GB'])]
```

```
# Create a barplot of salaries by location
sns.barplot(data=usa_and_gb, x='Employee_Location', y='Salary_USD')
plt.show()
```

Explanation: The ``isin`` method is used to filter the DataFrame for employees located in the US or GB. The resulting subset is stored in ``usa_and_gb``. Seaborn's ``barplot`` function is then used to create a bar plot showing the average salary ('Salary\_USD') for each location ('Employee\_Location'). The ``plt.show()`` command displays the plot, which helps compare average salaries between the two countries.