

In [1]: `pip install plotly`

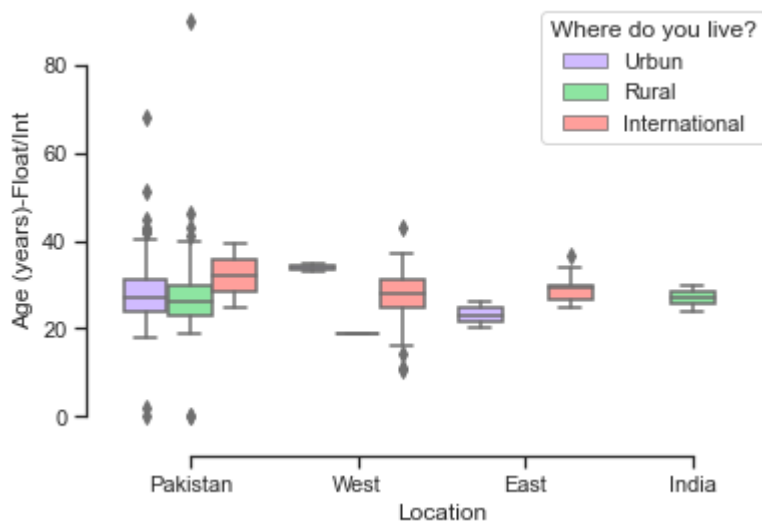
Requirement already satisfied: plotly in c:\newfolder\lib\site-packages (5.6.0)
 Requirement already satisfied: six in c:\newfolder\lib\site-packages (from plotly) (1.16.0)
 Requirement already satisfied: tenacity>=6.2.0 in c:\newfolder\lib\site-packages (from plotly) (8.0.1)
 Note: you may need to restart the kernel to use updated packages.

In [2]: `import seaborn as sns
import pandas as pd

sns.set_theme(style="ticks", palette="pastel")

Load the example tips dataset
chilla = pd.read_csv("Chilla_data2_for_plots.csv")

Draw a nested boxplot to show bills by day and time
sns.boxplot(x="Location", y="Age (years)-Float/Int",
 hue="Where do you live?", palette=["m", "g", "r"], saturation=1,
 data=chilla)
sns.despine(offset=10, trim=True)`



In [3]: `chilla = pd.read_csv("Chilla_data2_for_plots.csv")
chilla.head()`

Out[3]:

Gender	Location	Age	Qualification_completed	field_of_study	Purpose_for_chilla	What are you?	Blood group
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	Gender	Location	Age	Qualification_completed	field_of_study	Purpose_for_chilla	What are you?	Blood group
0	Male	Pakistan	36-40	Masters	Natural Sciences	to boost my skill set	Unemployed	B+
1	Male	Pakistan	26-30	Bachelors	CS/IT	to boost my skill set	Student	B+
2	Male	Pakistan	31-35	Masters	Enginnering	Switch my field of study	Employed	B+
3	Female	Pakistan	31-35	Masters	CS/IT	to boost my skill set	Employed	O+
4	Female	Pakistan	26-30	Masters	Enginnering	to boost my skill set	Student	A

5 rows × 23 columns



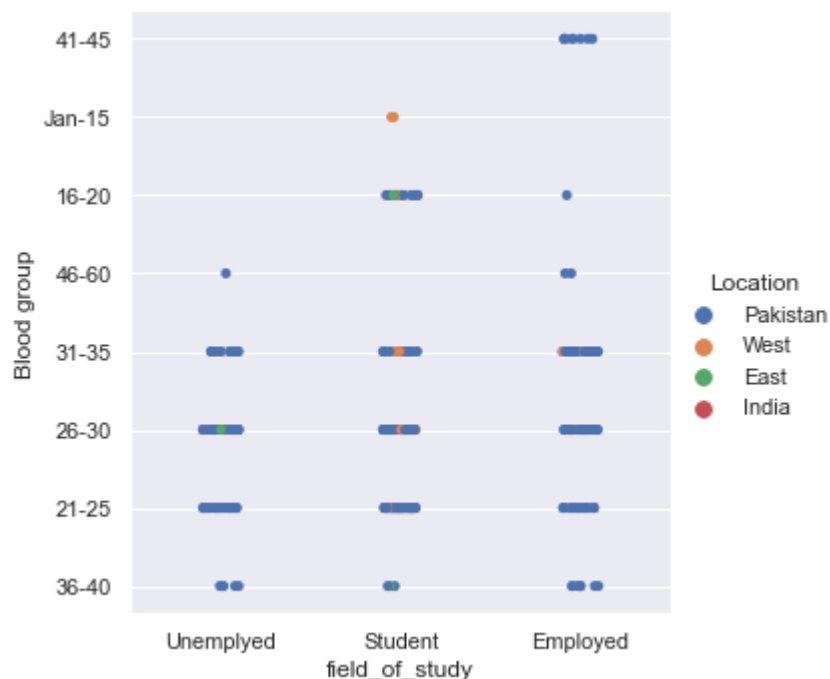
In [4]:

```
import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
sns.set_theme()

# Load the chilla dataset
chilla = pd.read_csv("Chilla_data2_for_plots.csv")

# Plot sepal width as a function of sepal_Length across days

g=sns.catplot(x="What are you?",y="Age",hue="Location",data=chilla)
# Use more informative axis labels than are provided by default
g.set_axis_labels("field_of_study", "Blood group")
plt.show()
```



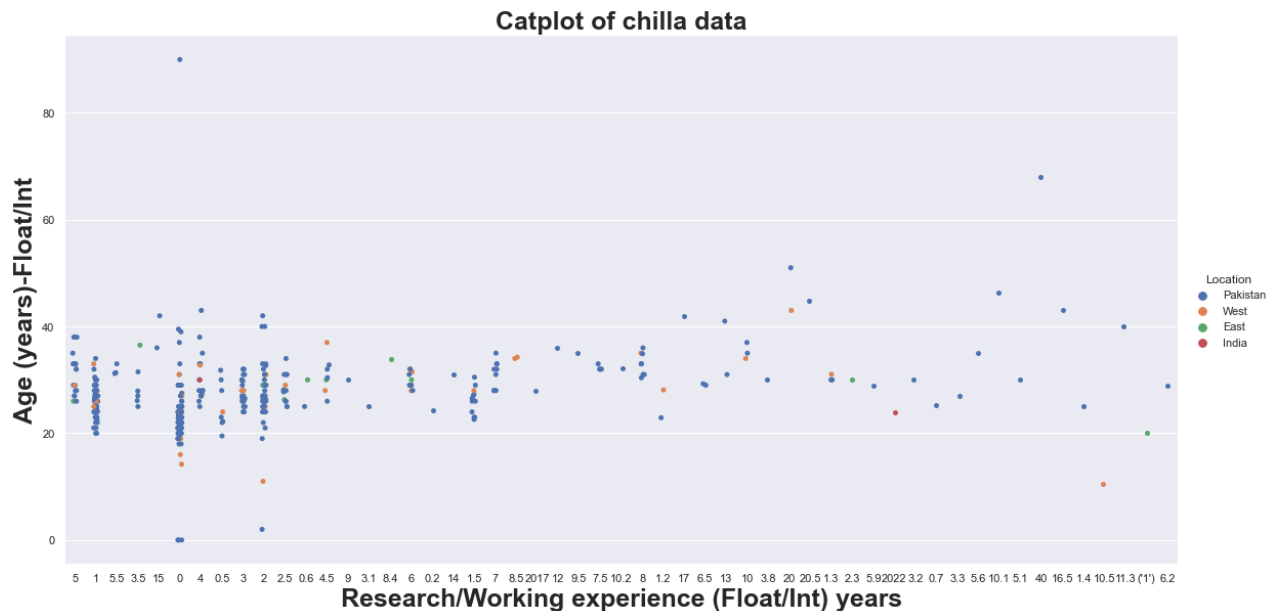
In [5]:

```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt

chilla = pd.read_csv ("Chilla_data2_for_plots.csv")

p=sns.catplot(x="Research/Working experience (Float/Int) years", y="Age (years)-Float/I
              hue="Location",data=chilla,height=8,aspect=2)
plt.xlabel("Research/Working experience (Float/Int) years",size=25,weight="bold")
plt.ylabel("Age (years)-Float/Int",size=25,weight="bold")
plt.title("Catplot of chilla data",size=25,weight="bold")

plt.show()
```



In [6]:

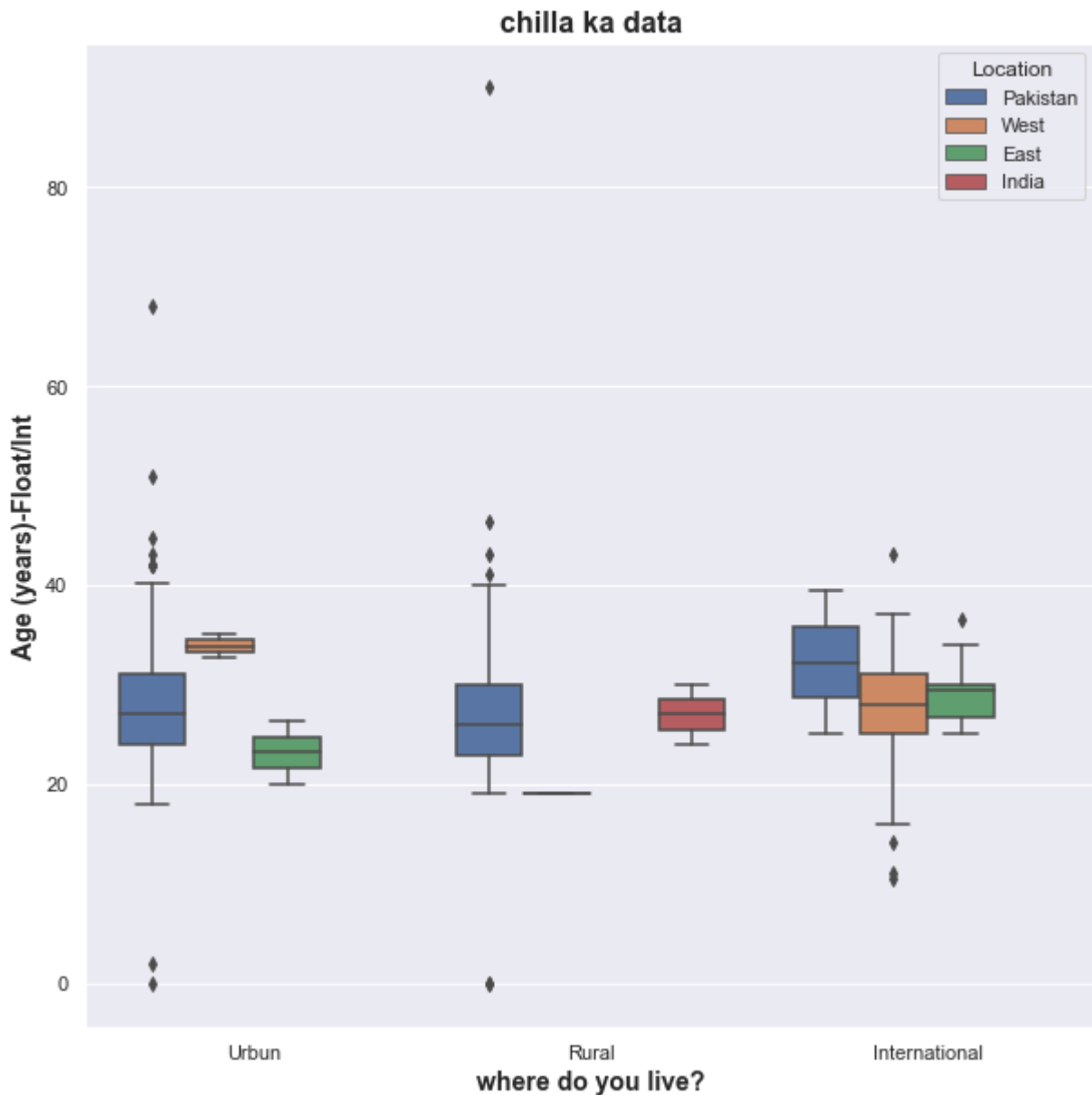
```
import seaborn as sns
```

```
import pandas as pd
import matplotlib.pyplot as plt

p=pd.read_csv("Chilla_data2_for_plots.csv")

plt.figure(figsize=(10,10))
p=sns.boxplot(x="Where do you live?", y="Age (years)-Float/Int",hue="Location",data=chi
plt.xlabel("where do you live?",size=14,weight="bold")
plt.ylabel("Age (years)-Float/Int",size=14,weight="bold")
plt.title("chilla ka data",size=16,weight="bold")
```

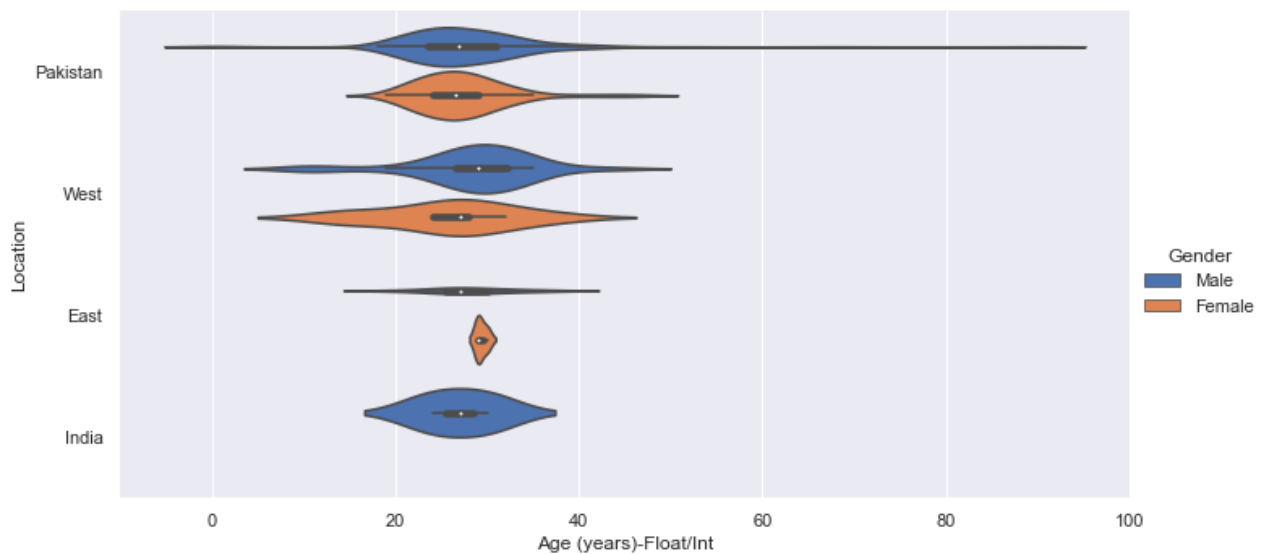
Out[6]: Text(0.5, 1.0, 'chilla ka data')



```
In [7]: import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
chilla=pd.read_csv("Chilla_data2_for_plots.csv")

sns.catplot( x="Age (years)-Float/Int",y="Location", hue="Gender",
             kind="violin", data=chilla,height=5,aspect=2,saturation=1)
```

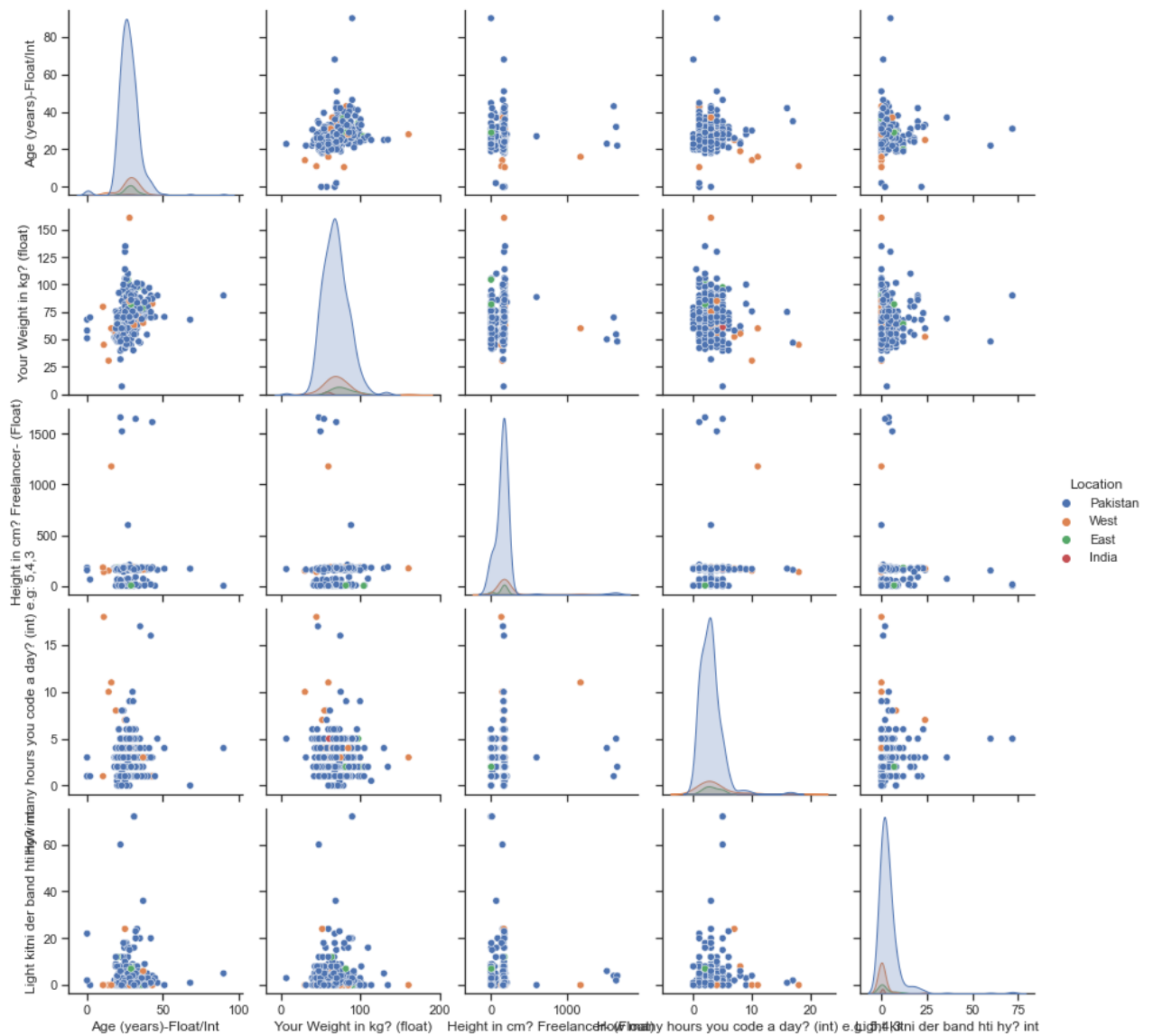
Out[7]: <seaborn.axisgrid.FacetGrid at 0xc729f35b0>



```
In [16]: import seaborn as sns
sns.set_theme(style="ticks")

df = pd.read_csv("Chilla_data2_for_plots.csv")
sns.pairplot(df, hue="Location")
```

Out[16]: <seaborn.axisgrid.PairGrid at 0xc72b52760>

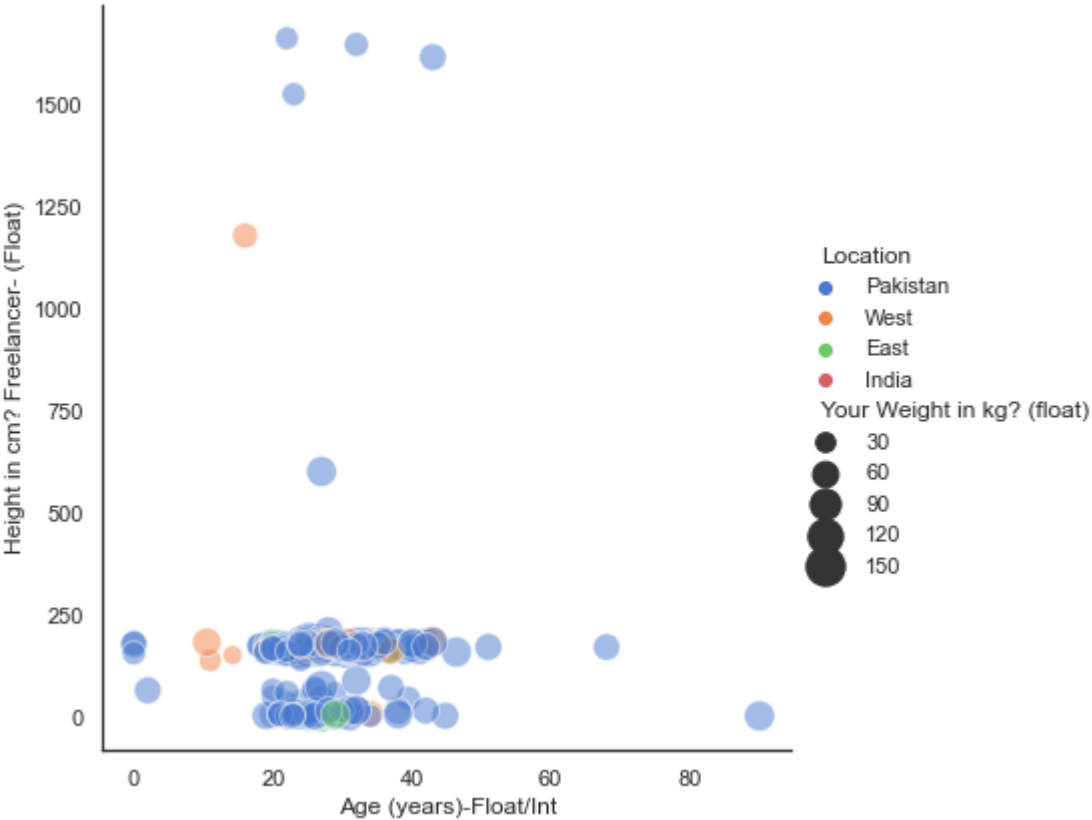


```
In [18]: import seaborn as sns
sns.set_theme(style="white")

# Load the example mpg dataset
chilla=pd.read_csv("Chilla_data2_for_plots.csv")

# Plot miles per gallon against horsepower with other semantics
sns.relplot(x="Age (years)-Float/Int", y="Height in cm? Freelancer- (Float)", hue="Location",
            sizes=(40, 400), alpha=.5, palette="muted",
            height=6, data=chilla)
```

```
Out[18]: <seaborn.axisgrid.FacetGrid at 0xc6b77beb0>
```



```
In [20]: import pandas as pd
chilla=pd.read_csv("Chilla_data2_for_plots.csv")
chilla.head()
```

Out[20]:

	Gender	Location	Age	Qualification_completed	field_of_study	Purpose_for_chilla	What are you?	Blood group
0	Male	Pakistan	36-40	Masters	Natural Sciences	to boost my skill set	Unemployed	B+
1	Male	Pakistan	26-30	Bachelors	CS/IT	to boost my skill set	Student	B+
2	Male	Pakistan	31-35	Masters	Enginnering	Switch my field of study	Employed	B+
3	Female	Pakistan	31-35	Masters	CS/IT	to boost my skill set	Employed	O+
4	Female	Pakistan	26-30	Masters	Enginnering	to boost my skill set	Student	A

5 rows × 23 columns

```
In [34]: import plotly.express as px
import pandas as pd
chilla=pd.read_csv("Chilla_data2_for_plots.csv")
fig = px.scatter(chilla, x="Age (years)-Float/Int", y="Light kitni der band hti hy? int",
                 marginal_x="box", trendline="ols", template="simple_white")
fig.show()
```

```
In [37]: import plotly.express as px
import pandas as pd
chilla=pd.read_csv("Chilla_data2_for_plots.csv")

fig = px.scatter(chilla, x="Gender", y="Age", color="Location")
fig.show()
```



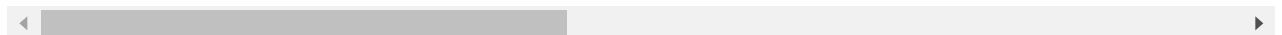
```
In [47]: import plotly.express as px
import pandas as pd
df=pd.read_csv("Chilla_data2_for_plots.csv")
df["e"] = df["Purpose_for_chilla"]
fig = px.scatter(df, x="Age", y="Location", color="What are you?")
fig.show()
```

```
In [48]: import pandas as pd
chilla=pd.read_csv("Chilla_data2_for_plots.csv")
chilla.head()
```

Out[48]:

	Gender	Location	Age	Qualification_completed	field_of_study	Purpose_for_chilla	What are you?	Blood group
0	Male	Pakistan	36-40	Masters	Natural Sciences	to boost my skill set	Unemployed	B+
1	Male	Pakistan	26-30	Bachelors	CS/IT	to boost my skill set	Student	B+
2	Male	Pakistan	31-35	Masters	Enginnering	Switch my field of study	Employed	B+
3	Female	Pakistan	31-35	Masters	CS/IT	to boost my skill set	Employed	O+
4	Female	Pakistan	26-30	Masters	Enginnering	to boost my skill set	Student	A

5 rows × 23 columns



```
In [ ]: import plotly.express as px
df = px.data.gapminder().query("year == 2007").query("continent == 'Europe'")
df.loc[df['pop'] < 2.e6, 'country'] = 'Other countries' # Represent only large countries
fig = px.pie(df, values='pop', names='country', title='Population of European continent')
fig.show()
```

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