PROJECT: ANALYZING CRIME IN LOS ANGELES





Los Angeles, California 😎. The City of Angels. Tinseltown. The Entertainment Capital of the World!

Known for its warm weather, palm trees, sprawling coastline, and Hollywood, along with producing some of the most iconic films and songs. However, as with any highly populated city, it isn't always glamorous and there can be a large volume of crime. That's where you can help!

You have been asked to support the Los Angeles Police Department (LAPD) by analyzing crime data to identify patterns in criminal behavior. They plan to use your insights to allocate resources effectively to tackle various crimes in different areas.

The Data

They have provided you with a single dataset to use. A summary and preview are provided below.

It is a modified version of the original data, which is publicly available from Los Angeles Open Data.

crimes.csv

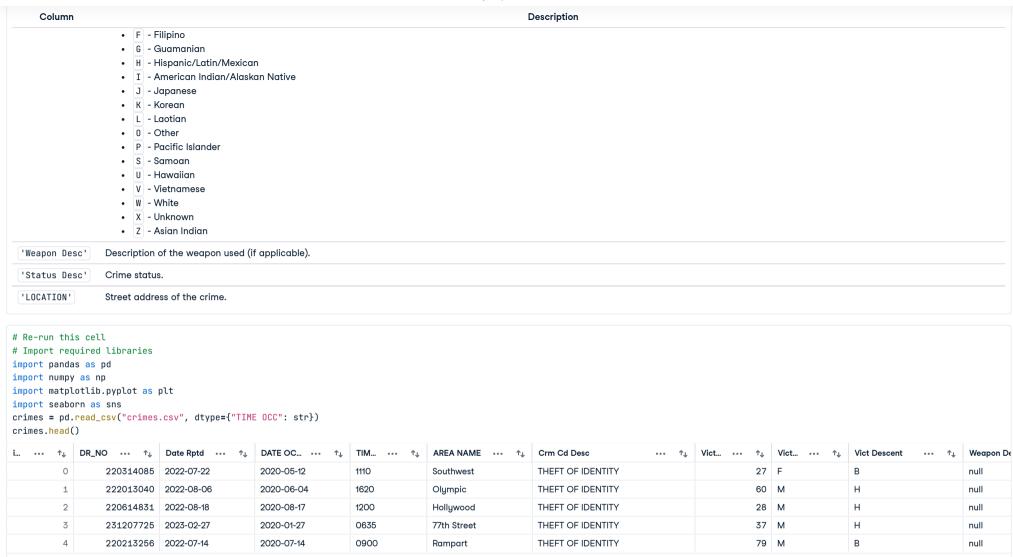
Column	Description
'DR_NO'	Division of Records Number: Official file number made up of a 2-digit year, area ID, and 5 digits.
'Date Rptd'	Date reported - MM/DD/YYYY.
'DATE OCC'	Date of occurrence - MM/DD/YYYY.
'TIME OCC'	In 24-hour military time.
'AREA NAME'	The 21 Geographic Areas or Patrol Divisions are also given a name designation that references a landmark or the surrounding community that it is responsible for. For example, the 77th Street Division is located at the intersection of South Broadway and 77th Street, serving neighborhoods in South Los Angeles.
'Crm Cd Desc'	Indicates the crime committed.
'Vict Age'	Victim's age in years.

How likely are you to recommend DataLab to a friend or co-worker?

Not at all likely 0 1 2 3 4 5 6 7 8 9 10 Extremely likely

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Rows: 5



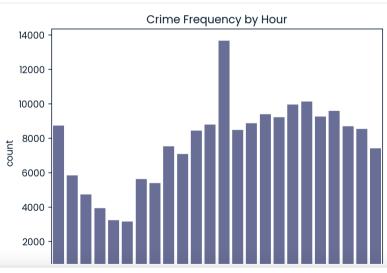
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Expand

```
# Start coding here
# Use as many cells as you need
crimes["HOUR OCC"] = crimes["TIME OCC"].str[:2].astype(int)
sns.countplot(data=crimes, x="HOUR OCC")
plt.xticks(rotation=90)
plt.title("Crime Frequency by Hour")
plt.show()
peak_crime_hour = crimes["HOUR OCC"].value_counts().idxmax()
night_hours = [22, 23, 0, 1, 2, 3]
night_crimes = crimes[crimes["HOUR OCC"].isin(night_hours)]
peak_night_crime_location = night_crimes["AREA NAME"].value_counts().idxmax()
age_bins = [0, 17, 25, 34, 44, 54, 64, np.inf]
age_labels = ["0-17", "18-25", "26-34", "35-44", "45-54", "55-64", "65+"]
crimes["Age Bracket"] = pd.cut(crimes["Vict Age"], bins=age_bins, labels=age_labels, right=True)
victim_ages = crimes["Age Bracket"].value_counts().sort_index()
print("peak_crime_hour:", peak_crime_hour)
print("peak_night_crime_location:", peak_night_crime_location)
print("victim_ages:\n", victim_ages)
```



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victim_ages: 0-17 4528 18-25 28291 47470 26-34 35-44 42157 45-54 28353 55-64 20169 65+ 14747 Name: Age Bracket, dtype: int64

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 (x)