In [10]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.express as px
%matplotlib inline

In [11]: datas=pd.read\_csv("Unemployment\_Rate\_upto\_11\_2020.csv")

In [50]: datas.head() # descending

## Out[50]:

	Region	Date	Frequency	Estimated Unemployment Rate (%)	Estimated Employed	Estimated Labour Participation Rate (%)	Region.1	longitude	latitude
0	Andhra Pradesh	31 <b>-</b> 01- 2020	М	5.48	16635535	41.02	South	15.9129	79.74
1	Andhra Pradesh	29-02- 2020	М	5.83	16545652	40.90	South	15.9129	79.74
2	Andhra Pradesh	31-03- 2020	М	5.79	15881197	39.18	South	15.9129	79.74
3	Andhra Pradesh	30-04- 2020	М	20.51	11336911	33.10	South	15.9129	79.74
4	Andhra Pradesh	31-05- 2020	М	17.43	12988845	36.46	South	15.9129	79.74

In [35]: datas.tail() # reverse

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	Region	Date	Frequency	Estimated Unemployment Rate (%)	Estimated Employed	Estimated Labour Participation Rate (%)	Region.1	longitude	latitude
262	West Bengal	30-06- 2020	М	7.29	30726310	40.39	East	22.9868	87.855
263	West Bengal	31-07- 2020	М	6.83	35372506	46.17	East	22.9868	87.855
264	West Bengal	31-08- 2020	М	14.87	33298644	47.48	East	22.9868	87.855
265	West Bengal	30-09- 2020	М	9.35	35707239	47.73	East	22.9868	87.855
266	West Bengal	31-10- 2020	М	9.98	33962549	45.63	East	22.9868	87.855

In [51]: datas.isnull().sum() # finding null value according to field

```
Out[51]: Region 0
Date 0
Frequency 0
Estimated Unemployment Rate (%) 0
Estimated Employed 0
Estimated Labour Participation Rate (%) 0
Region.1 0
Iongitude 0
Iatitude 0
dtype: int64
```

```
In [42]: datas.isnull().sum().sum() # finding null values in table
```

Out[42]: 0

In [11]: datas.fillna(method='pad') # filling empty rows with previous value

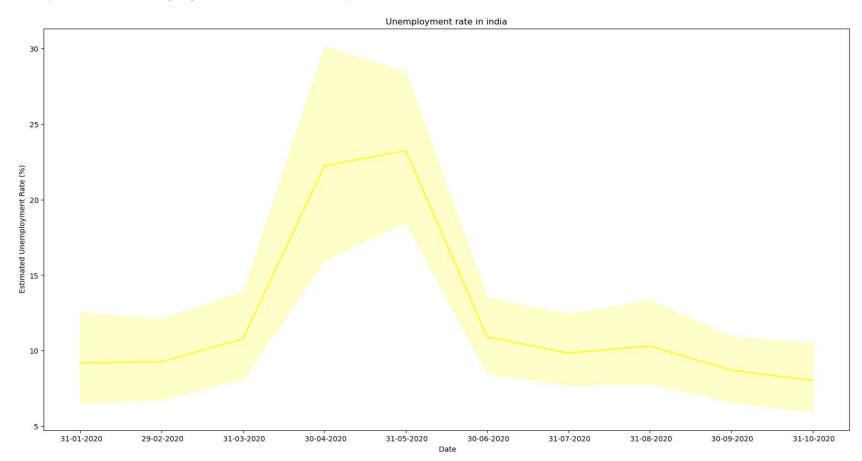
Out[11]:

	Region	Date	Frequency	Estimated Unemployment Rate (%)	Estimated Employed	Estimated Labour Participation Rate (%)	Region.1	longitude	latitude
0	Andhra Pradesh	31-01- 2020	М	5.48	16635535	41.02	South	15.9129	79.740
1	Andhra Pradesh	29-02- 2020	М	5.83	16545652	40.90	South	15.9129	79.740
2	Andhra Pradesh	31-03- 2020	М	5.79	15881197	39.18	South	15.9129	79.740
3	Andhra Pradesh	30-04- 2020	М	20.51	11336911	33.10	South	15.9129	79.740
4	Andhra Pradesh	31-05- 2020	М	17.43	12988845	36.46	South	15.9129	79.740
262	West Bengal	30-06- 2020	М	7.29	30726310	40.39	East	22.9868	87.855
263	West Bengal	31-07- 2020	М	6.83	35372506	46.17	East	22.9868	87.855
264	West Bengal	31-08- 2020	М	14.87	33298644	47.48	East	22.9868	87.855
265	West Bengal	30-09- 2020	М	9.35	35707239	47.73	East	22.9868	87.855
266	West Bengal	31-10- 2020	М	9.98	33962549	45.63	East	22.9868	87.855

267 rows × 9 columns

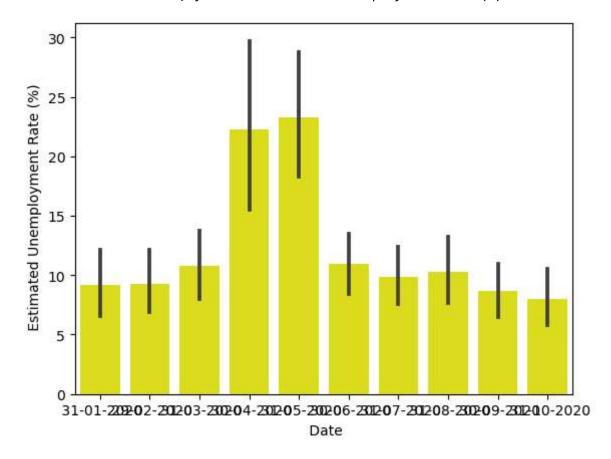
```
In [53]: plt.figure(figsize=(20,10)) #Unemployment rate in india
sns.lineplot(data=datas,x= ' Date',y=' Estimated Unemployment Rate (%)',color='yellow')
plt.title("Unemployment rate in india")
```

Out[53]: Text(0.5, 1.0, 'Unemployment rate in india')

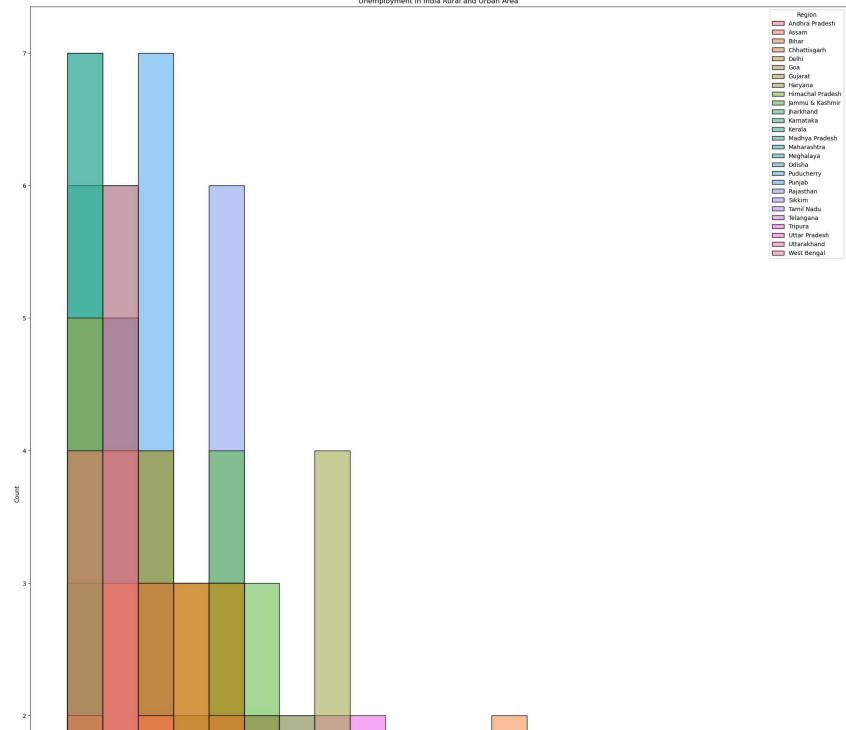


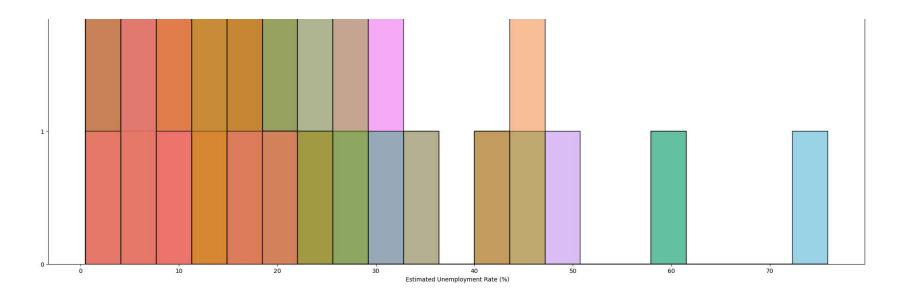
```
In [55]: sns.barplot(data=datas,x= ' Date',y=' Estimated Unemployment Rate (%)',color='yellow')
```

Out[55]: <Axes: xlabel=' Date', ylabel=' Estimated Unemployment Rate (%)'>



```
In [63]: plt.figure(figsize=(25,30)) #histplot
    datas.columns=('Region', ' Date', ' Frequency', ' Estimated Unemployment Rate (%)', ' Estimated Employed', ' E
    plt.title("Unemployment in India Rural and Urban Area")
    sns.histplot(x=' Estimated Unemployment Rate (%)',hue='Region',data=datas)
    plt.show()
```





```
In [67]: plt.figure(figsize=(30,25)) #histplot
    datas.columns=('Region', ' Date', ' Frequency', ' Estimated Unemployment Rate (%)', ' Estimated Employed', ' E
    plt.title("Unemployment in India Rural and Urban Area")
    sns.histplot(x='Region',hue='longitude',data=datas)
    plt.show()
```

```
In [72]: sns.heatmap(datas.corr(),annot=True) #heatmap
```

C:\Users\DB Tech\AppData\Local\Temp\ipykernel\_5780\1653070210.py:1: FutureWarning: The default value of numer ic\_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid col umns or specify the value of numeric\_only to silence this warning.

sns.heatmap(datas.corr(),annot=True)

Out[72]: <Axes: >

