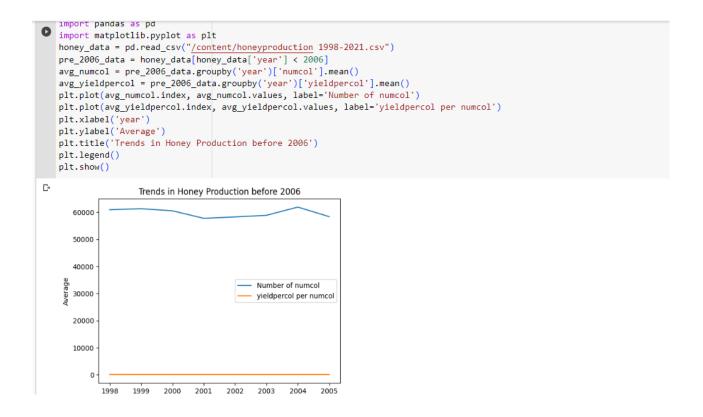
1. How has honey production yield changed from 1998 to 2021?

```
import pandas as pd
    import matplotlib.pyplot as plt
    df = pd.read_csv("/content/honeyproduction 1998-2021.csv")
    df['year'] = pd.to_datetime(df['year'])
    plt.plot(df['year'], df['yieldpercol'])
    plt.xlabel('Year')
    plt.ylabel('Honey Yield')
    plt.title('Honey Production Yield from 1998 to 2021')
C•
                  Honey Production Yield from 1998 to 2021
       140
       120
       100
    Honey Yield
        80
        60
        40
        20
         0
               1970
                                   Year
```

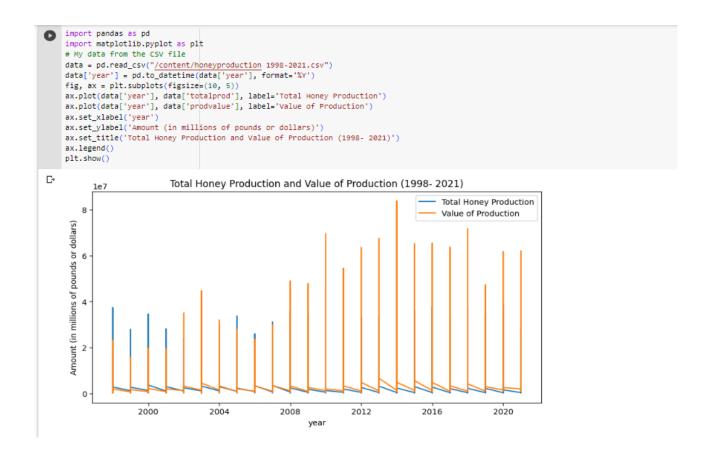
2. Over time, what are the major production trends across the states?

```
import pandas as pd
import matplotlib.pyplot as plt
#the CSV file
honey_df = pd.read_csv("/content/honeyproduction 1998-2021.csv")
# Calculate the total honey production by state aur year
state_year_df = honey_df.groupby(["State", "year"])["totalprod"].sum().reset_index()
state_year_pivot = state_year_df.pivot(index="year", columns="State", values="totalprod")
# Plot the trends in honey production across the states over time state_year_pivot.plot(figsize=(12, 8))
plt.xlabel("Year")
plt.ylabel("Honey Production (lbs)")
plt.title("Trends in Honey Production by State (1998-2021)")
plt.show()
            Trends in Honey Production by State (1998-2021)
   0.8
 Honey Production (lbs)
    0.0
                                                    0.8
```

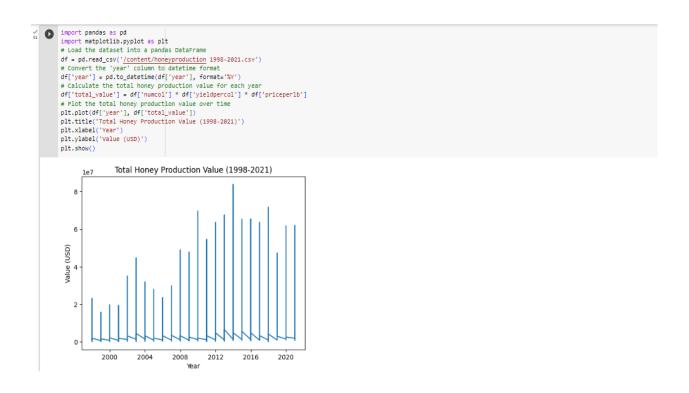
3.Does the data show any trend sin term soft he number of honey producing colonies and yield per colony before 2006, which was when concern over Colony Collapse Disorder spread nation wide?



4.Are there any patterns that can be observed between total honey production and value of production every year?



5. How has the value of production, which in some sense could be tied to demand, changed every year?



6.Constructs the related plots using Seaborn and Matplot apply customization and derive insights from the visualization.

```
| Convert | Saving_... | Import pands as pd | import pands pands betaframe | import pands pands
```

