TV Show Report: *Desperate Housewives*

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TV series analysis

1. Description

Desperate Housewives is an American mystery comedy-drama television series created by Marc Cherry, and produced by ABC Studios and Cherry Productions. (https://en.wikipedia.org/wiki/Desperate_Hou

2. Picture of the show

Figure 1: Desperate Housewives Photo

3. Viewership Data

Below is a summary of the viewership (in millions) per episode.

```
!pip install Jinja2

# Import pandas
import pandas as pd

# Define data
data = {
    "Season 1": [21.64, 20.03, 20.87, 21.49, 22.14, 24.60, 24.21, 27.24, 21.56, 22.34],
    "Season 2": [28.36, 27.11, 26.06, 25.78, 25.22, 23.93, 25.93, 25.92, 25.89, 25.52],
    "Season 3": [24.09, 21.42, 20.96, 20.64, 19.71, 21.24, 22.65, 22.27, 21.63, 21.43],
    "Season 4": [19.32, 17.82, 18.89, 18.21, 18.28, 18.58, 18.63, 18.64, 20.65, 19.78],
    "Season 5": [18.68, 15.69, 15.51, 15.49, 15.95, 15.93, 15.85, 16.84, 15.81, 16.09],
    "Season 6": [13.64, 14.64, 13.42, 13.68, 14.18, 14.08, 13.80, 14.72, 12.78, 14.86],
    "Season 7": [13.06, 13.23, 12.38, 12.67, 12.16, 11.10, 12.72, 11.92, 11.36, 11.60],
    "Season 8": [9.93, 9.16, 8.63, 8.27, 9.17, 9.28, 8.78, 9.29, 8.20, 8.84]
}
# Create DataFrame
df = pd.DataFrame(data)
df.index = range(1,11)

# Display table
df.style.format("{:.2f}")
```

```
Requirement already satisfied: Jinja2 in c:\users\hp\.conda\envs\myenv\lib\site-packages (3.
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\hp\.conda\envs\myenv\lib\site-pacl
```

Table 1

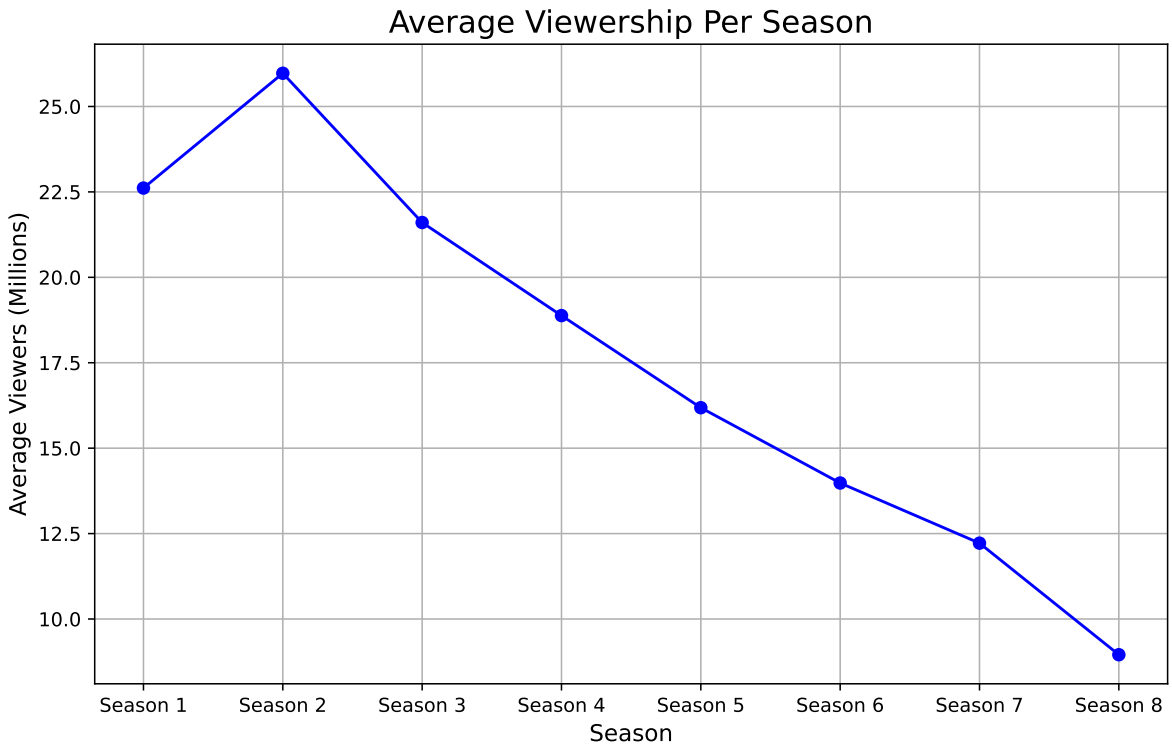
	Season 1	Season 2	Season 3	Season 4	Season 5	Season 6	Season 7	Season 8
1	21.64	28.36	24.09	19.32	18.68	13.64	13.06	9.93
2	20.03	27.11	21.42	17.82	15.69	14.64	13.23	9.16
3	20.87	26.06	20.96	18.89	15.51	13.42	12.38	8.63
4	21.49	25.78	20.64	18.21	15.49	13.68	12.67	8.27
5	22.14	25.22	19.71	18.28	15.95	14.18	12.16	9.17
6	24.60	23.93	21.24	18.58	15.93	14.08	11.10	9.28
7	24.21	25.93	22.65	18.63	15.85	13.80	12.72	8.78
8	27.24	25.92	22.27	18.64	16.84	14.72	11.92	9.29

	Season 1	Season 2	Season 3	Season 4	Season 5	Season 6	Season 7	Season 8
9	21.56	25.89	21.63	20.65	15.81	12.78	11.36	8.20
10	22.34	25.52	21.43	19.78	16.09	14.86	11.60	8.84

4. Analysis of data

```
import matplotlib.pyplot as plt
# Calculate average viewership per season
average_viewers = df.mean()

# Plot trend
plt.figure(figsize=(10, 6))
average_viewers.plot(kind='line', marker='o', color='b')
plt.title('Average Viewership Per Season', fontsize=16)
plt.xlabel('Season', fontsize=12)
plt.ylabel('Average Viewers (Millions)', fontsize=12)
plt.grid(True)
plt.show()
```



The number of audiences reached peak at season 2, then there is a consistent decreasing trend from season 3 to the last.