In [23]:
```python
import pandas as pd
```

In [24]:
```python
sales_data=pd.DataFrame({
    "Timestamp":["21-07-2021", "28-07-2021", "04-08-2021", "11-08-2021", "18-08-2021", "25-08-2021", "0
1-09-2021", "08-09-2021", "15-09-2021", "22-09-2021","29-09-2021", "06-10-2021", "13-10-2021"],
    "Sales":[129420, 150990, 107850, 53925, 215700, 291195, 107850, 312765, 431400, 97065, 204915, 2157
00, 53925]
})
```

In [25]:
```python
tv_data=pd.DataFrame({
    "Timestamp":["4-08-2021", "11-08-2021", "18-08-2021", "25-08-2021", "1-08-2021"],
    "TV GRPs":[5, 17, 25, 29, 23]
})
```

In [26]:
```python
video_data=pd.DataFrame({
    "Timestamp":["21-07-2021", "28-07-2021", "04-08-2021", "11-08-2021", "18-08-2021",
                 "25-08-2021", "01-09-2021"],
    "Video Impressions":[2500, 5000, 10000, 7500, 11250, 7000, 5750]
})
```

In [27]:
```python
m_df=sales_data.merge(tv_data, on='Timestamp',how='left')
m_df=m_df.merge(video_data, on='Timestamp',how='left')
print(merged_df)
```

```
     Timestamp    Sales  TV GRPs  Video Impressions
0   21-07-2021   129420      NaN             2500.0
1   28-07-2021   150990      NaN             5000.0
2   04-08-2021   107850      NaN            10000.0
3   11-08-2021    53925     17.0             7500.0
4   18-08-2021   215700     25.0            11250.0
5   25-08-2021   291195     29.0             7000.0
6   01-09-2021   107850      NaN             5750.0
7   08-09-2021   312765      NaN                NaN
8   15-09-2021   431400      NaN                NaN
9   22-09-2021    97065      NaN                NaN
10  29-09-2021   204915      NaN                NaN
11  06-10-2021   215700      NaN                NaN
12  13-10-2021    53925      NaN                NaN
```

In [17]:
```python
# SELECT s.Timestamp, s.Sales, t.[TV GRPs], v.[Video Impressions] FROM sales_data s LEFT JOIN tv_data t
ON s.Timestamp = t.Timestamp LEFT JOIN video_data v ON s.Timestamp = v.Timestamp;
```

In [ ]: