df.head(5)

| 1 | [D | Severity | Start_Time | End_Time | Start_Lat | Start_Lng | End_Lat | End_Lng | Distance(mi) | Description | Roundabout | Stat |
|---|-----------------|----------|------------------------|----------------------------|-----------|-------------|-----------|-------------|--------------|---|----------------|------|
| 0 | ۹- 1 | 2 | 2019-05-21 08:29:55 | 2019-05- 21 09:29:40 | 34.808868 | -82.269157 | 34.808868 | -82.269157 | 0.0 | Accident on Tanner Rd at Pennbrooke Ln. | False | F |
| 1 | ۹- 2 | 2 | 2019-10-07 17:43:09 | 2019-10- 07 19:42:50 | 35.090080 | -80.745560 | 35.090080 | -80.745560 | 0.0 | Accident on Houston Branch Rd at Providence Br | False | F |
| | ۸- 3 | 2 | 2020-12-13 21:53:00 | 2020-12- 13 22:44:00 | 37.145730 | -121.985052 | 37.165850 | -121.988062 | 1.4 | Stationary traffic on CA- 17 from Summit Rd (CA | False | F |
| | ۸- 4 | 2 | 2018-04-17 16:51:23 | 2018-04- 17 17:50:46 | 39.110390 | -119.773781 | 39.110390 | -119.773781 | 0.0 | Accident on US-395 Southbound at Topsy Ln. | False | F |
| 4 | A - 5 | 3 | 2016-08-31 17:40:49 | 2016-08- 31 18:10:49 | 26.102942 | -80.265091 | 26.102942 | -80.265091 | 0.0 | Accident on I-595 Westbound at Exit 4 / Pine I | False | F |

```
selected_columns = ['ID', 'Severity', 'Start_Time', 'End_Time', 'Source']
important_columns = ['Severity', 'Start_Time']
df.dropna(subset=important_columns, inplace=True)
df['Start_Time'] = pd.to_datetime(df['Start_Time'], errors='coerce')
df.dropna(subset=['Start_Time'], inplace=True)
df['Hour'] = df['Start_Time'].dt.hour
hourly_accidents = df.groupby('Hour').size()
weather_accidents = df.groupby('Weather_Condition').size().sort_values(ascending=False).head(10)
city_accidents = df.groupby('City').size().sort_values(ascending=False).head(10)
plt.figure(figsize=(10, 6))
\verb|sns.barplot(x=hourly_accidents.index, y=hourly_accidents.values, color='skyblue')| \\
plt.title('Hourly Accident Counts')
plt.xlabel('Hour of Day')
plt.ylabel('Number of Accidents')
plt.xticks(rotation=45)
plt.grid(axis='y')
plt.show()
```

