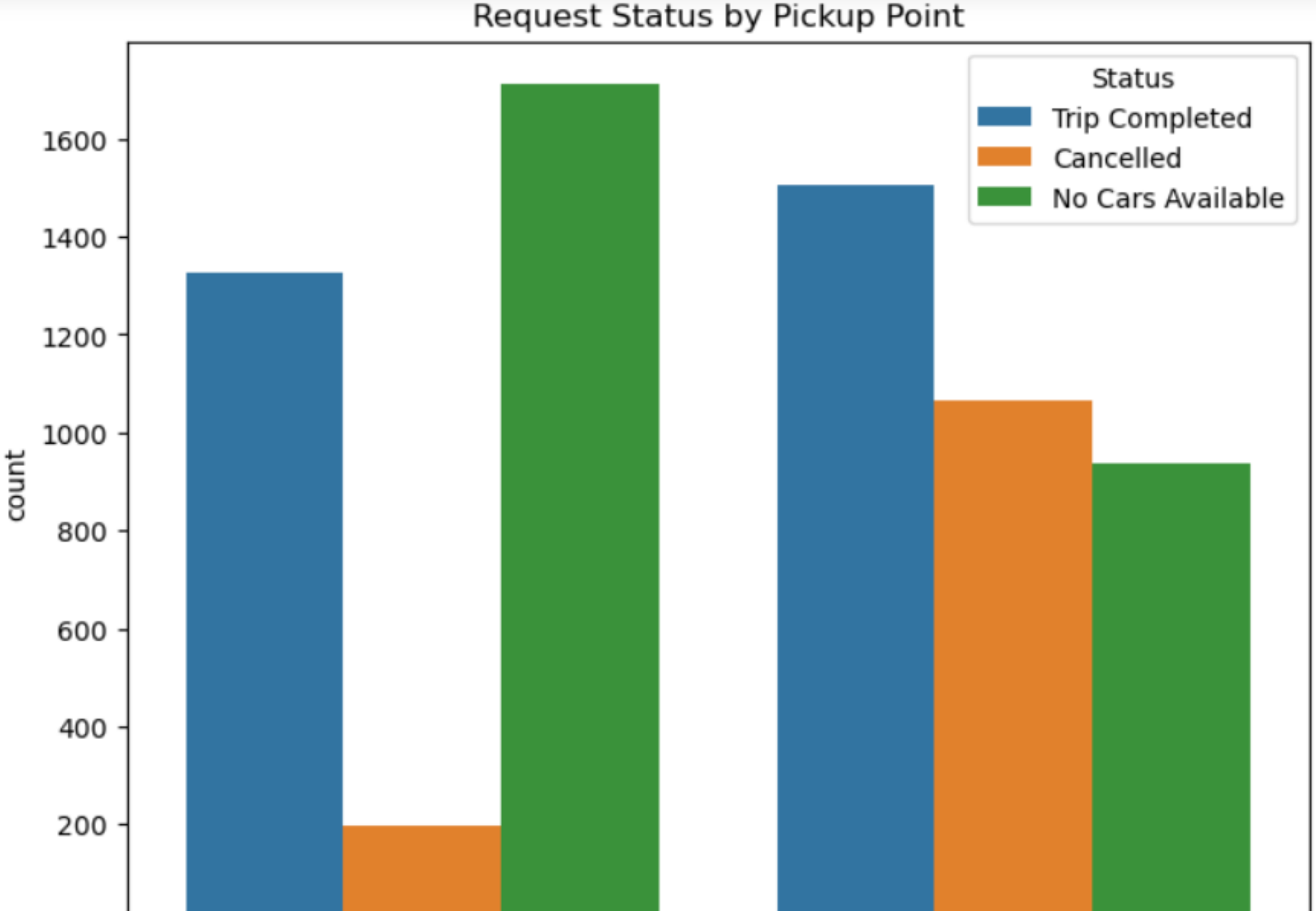
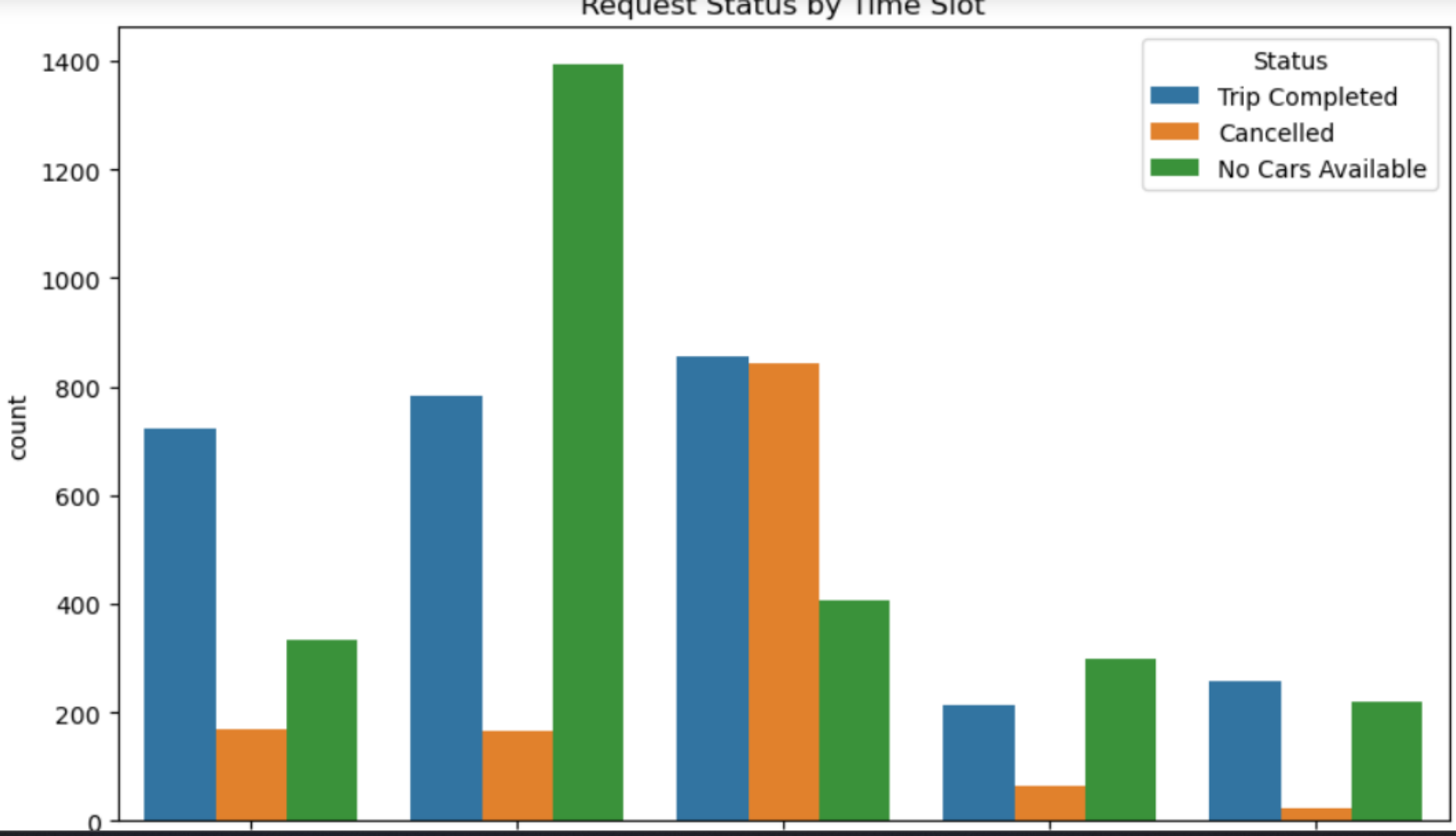
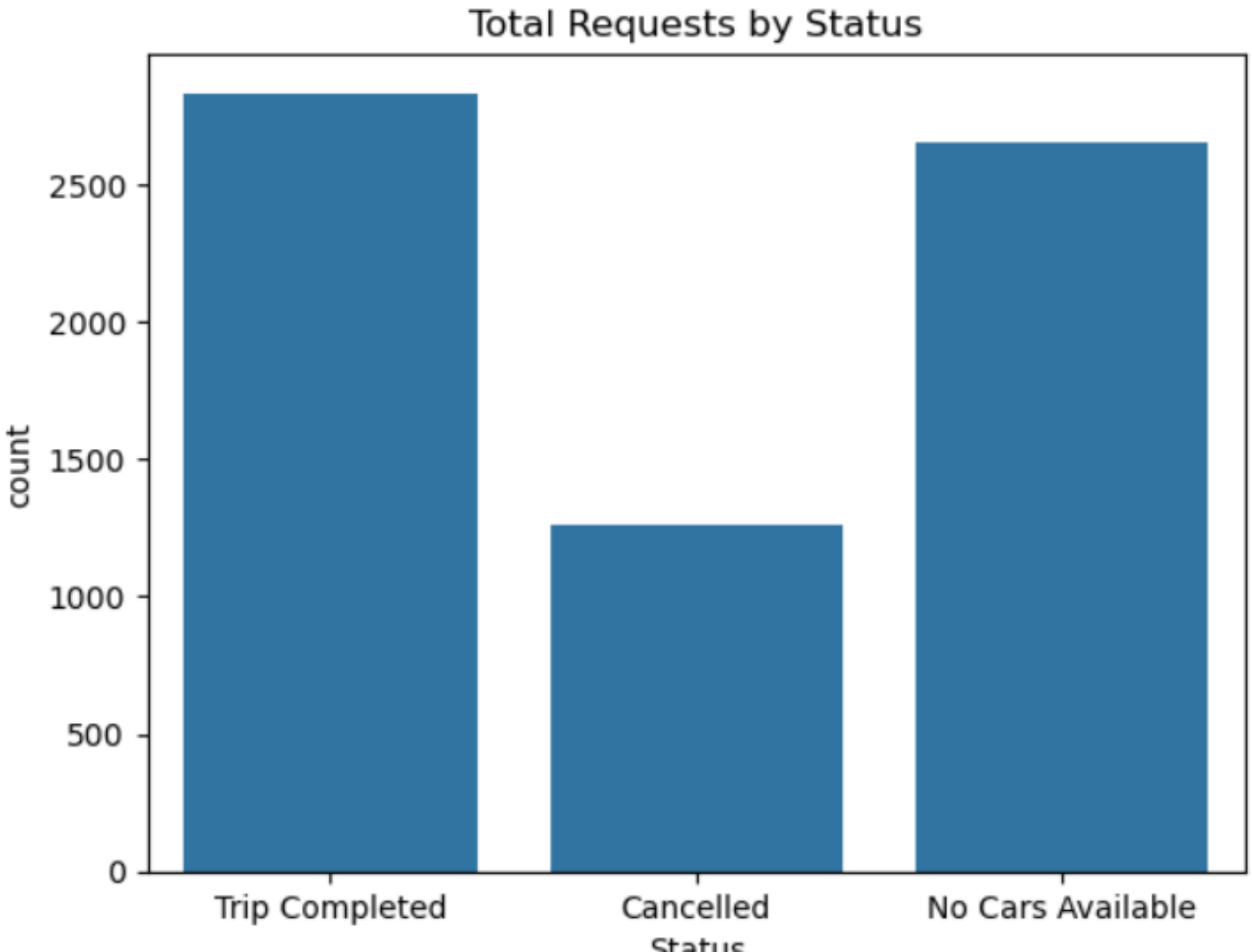

Request Status by Pickup Point
Status
Trip Completed
Cancelled
No Cars Available
count
1600
1400
1200
1000
800
600
400
200


Request Status by Time Slot
Status
Trip Completed
Cancelled
No Cars Available
count
1400
1200
1000
800
600
400
200
0

In [19]:
```
plt.figure(figsize=(10, 6))
sns.countplot(data=df, x="Time Slot", hue="Status")
plt.title("Request Status by Time Slot")
plt.xticks(rotation=15)
plt.show()
```


Total Requests by Status
count
2500
2000
1500
1000
500
0
Trip Completed
Cancelled
No Cars Available
Status

In [17]:
```
import seaborn as sns
import matplotlib.pyplot as plt
```

In [18]:
```
sns.countplot(data=df, x="Status")
plt.title("Total Requests by Status")
plt.show()
```

In [16]:
```
%%sql
SELECT [Pickup point], Status, COUNT(*) AS count
FROM uber
GROUP BY [Pickup point], Status
ORDER BY [Pickup point];
```

```
   sqlite://
 * sqlite:///uber_data.db
Done.
```

Out[16]:

Pickup point	Status	count
Airport	Cancelled	198
Airport	No Cars Available	1713
Airport	Trip Completed	1327
City	Cancelled	1066
City	No Cars Available	937
City	Trip Completed	1504

Out[15]:

Time Slot	Status	count
Day	Cancelled	168
Day	No Cars Available	334
Day	Trip Completed	722
Early Morning	Cancelled	843
Early Morning	No Cars Available	406
Early Morning	Trip Completed	854
Evening	Cancelled	166
Evening	No Cars Available	1392
Evening	Trip Completed	784
Late Night	Cancelled	65
Late Night	No Cars Available	299
Late Night	Trip Completed	214
Night	Cancelled	22
Night	No Cars Available	219
Night	Trip Completed	257

Done.

Out[14]:

Status	request_count
Trip Completed	2831
No Cars Available	2650
Cancelled	1264

In [15]:
```
%%sql
SELECT [Time Slot], Status, COUNT(*) AS count
FROM uber
GROUP BY [Time Slot], Status
ORDER BY [Time Slot];
```

```
   sqlite://
 * sqlite:///uber_data.db
Done.
```

Out[15]:

Time Slot	Status	count
Day	Cancelled	168
Day	No Cars Available	334
Day	Trip Completed	722
Early Morning	Cancelled	843

In [13]:
```
# Load SQL magic extension
%reload_ext sql

# Connect to the SQLite DB file you created
%sql sqlite:///uber_data.db

# Fix SQL table formatting display (avoids prettytable errors/warnings)
%config SqlMagic.style = 'PLAIN_COLUMNS'
```

In [14]:
```
%%sql
SELECT Status, COUNT(*) AS request_count
FROM uber
GROUP BY Status
ORDER BY request_count DESC;
```

```
   sqlite://
 * sqlite:///uber_data.db
Done.
```

In [11]:
```
import pandas as pd
from sqlalchemy import create_engine

# Load the Excel file (make sure it's uploaded in the same folder as your notebook)
df = pd.read_excel("Final_Uber_Dashboard_With_Charts.xlsx", sheet_name="Data")

# Create SQLite file-based DB to allow SQL queries to access the same data
engine = create_engine('sqlite:///uber_data.db', echo=False)

# Save DataFrame to SQL table
df.to_sql('uber', con=engine, if_exists='replace', index=False)

# Preview
df.head()
```

Out[11]:

	Request id	Pickup point	Driver id	Status	Request timestamp	Drop timestamp	Request hour	Request day	Time Slot
0	619	Airport	1.0	Trip Completed	2016-07-11 11:51:00	2016-07-11 13:00:00	11	Monday	Day
1	867	Airport	1.0	Trip Completed	2016-07-11 17:57:00	2016-07-11 18:47:00	17	Monday	Evening
2	1807	City	1.0	Trip Completed	2016-07-12 09:17:00	2016-07-12 09:58:00	9	Tuesday	Early Morning
3	2532	Airport	1.0	Trip Completed	2016-07-12 21:08:00	2016-07-12 22:03:00	21	Tuesday	Evening
4	3112	City	1.0	Trip Completed	2016-07-13 08:33:16	2016-07-13 09:25:47	8	Wednesday	Early Morning

In [20]:
```
plt.figure(figsize=(8, 6))
sns.countplot(data=df, x="Pickup point", hue="Status")
plt.title("Request Status by Pickup Point")
plt.show()
```