Overview Analysis Insights

1. Overall Performance

• Total Bookings: 103.7K

• Total Booking Value: \$1.6M

• Average Trip Value: \$15.0

• **Total Trip Distance**: 349K miles

• Average Trip Distance: 3 miles

• Average Trip Time: 16 minutes

2. Peak Patterns

• Most Active Days: End of the month (days 25–30) show higher booking volumes.

• Day vs Night Trips: 61.7% of trips occur during the day, and 38.3% at night.

3. Popular Locations

- Most Frequent Pickup: Penn Station / Madison Sq West
- Most Frequent Drop-off: Upper East Side North
- Farthest Trip: 144.1 miles (Lower East Side → Crown Heights North)

4. Vehicle Performance

- UberX dominates:
 - o 38.7K bookings (≈37.4%)
 - o Total value: \$583.9K
- Least Used: Uber Green (≈14.5K bookings, \$210.6K)

5. Payment Methods

- Most Used: Uber Pay (~67%)
- Least Used: Google Pay (~0.17%)

Recommendations

1. Marketing & Promotions

- Focus campaigns on peak days (last week of the month).
- **Promote night-time bookings** to balance trip loads.

2. Vehicle Strategy

- **UberX**: Maximize this fleet—it's clearly the most preferred.
- **Uber Green**: Consider promoting eco-rides with discounts or incentives.

3. Payment Partnerships

- Since **Uber Pay dominates**, consider:
 - o Cross-promotions with Uber Wallet.
 - o **Incentives for using alternate payment methods** (Google Pay, Amazon, etc.) to diversify dependency.

4. Location Optimization

- Strategic driver placement in/around:
 - o Penn Station and Upper East Side North to reduce rider wait times.
- Highlight these zones in driver apps for improved efficiency.

Q Time-Based Insights (With Filters Applied)

1. Booking Trends by Time of Day

Across all metrics (Bookings, Value, Distance), there's a **strong peak between 10 AM to 6 PM**, tapering off in the evening. This aligns well with:

- Workday commutes
- Midday errands
- Afternoon travel

Recommendation: Increase driver availability during peak hours, especially 10 AM–6 PM. Consider surge pricing or promotions post-6 PM to flatten the curve.

2. Booking Patterns by Day of Week

a. Total Bookings

- Highest: Saturday (19.2K) and Sunday (19.1K)
- Lowest: Friday (9.3K)

b. Total Booking Value

- Highest: Saturday (\$276K) and Sunday (\$283K)
- Lowest: Friday (\$146K)

c. Total Trip Distance

- Highest: Sunday (62K miles) and Saturday (62K miles)
- Lowest: Friday (36K miles)

Insight: Fridays consistently underperform across all metrics—possibly due to reduced demand or fewer available drivers.

Recommendations:

- Boost Friday performance: Launch "Friday ride deals" or promo codes.
- Weekend surge planning: Ensure more drivers are available Saturdays & Sundays.

3. Hour & Day Heatmap Analysis

All three heatmaps show that:

- Most active hours: 10 AM 7 PM
- Most active days: Saturday & Sunday
- Least active: Early morning hours (12 AM 6 AM), especially Monday through Friday

Recommendation:

- Leverage heatmap data for driver scheduling and dynamic pricing models.
- Explore targeted marketing to promote off-peak hour bookings with discounts.

♦ Overall Summary

High-Level Findings:

- Daytime (10 AM-6 PM) and weekends (Sat-Sun) dominate bookings.
- Friday is an outlier with low performance—needs strategic intervention.
- User habits suggest non-commuter, casual ride patterns (e.g., shopping, leisure).