

🚖 Uber Trip Analysis – Insight Report

1. Overview Analysis

Total Summary (01 June - 30 June 2024)

Total Bookings: 103.7K

Total Booking Value: \$1.6M

Average Booking Value: \$15.0

Total Trip Distance: 349K miles

Average Trip Distance: 3 miles

• Average Trip Time: 16 minutes

Booking Patterns

Most Frequent Pickup Point: Penn Station / Madison Sq West

Most Frequent Drop-off Point: Upper East Side North

• Farthest Trip: Lower East Side → Crown Heights North (14.4 miles)

Vehicle Type Performance

Vehicle Type	Total Bookings	Avg Booking Value	Total Distance
UberX	38,744	\$15	93.5K miles
Uber Comfort	17,078	\$15	56.7K miles
Uber Black	16,710	\$15	56.1K miles
UberXL	16,598	\$15	55.7K miles
Uber Green	14,948	\$15	48.4K miles

Insight: UberX is the most used service, followed by Uber Comfort.

Payment Type and Time-of-Day Patterns

Payment Type (by trip distance):

Uber Pay: 71%

o Cash: 27%

Trip Time Distribution:

Day Trips: 60.1%

• **Night Trips:** 39.9%

🕓 2. Time Analysis

Filtered Duration: 01 June - 13 June 2024

• Total Bookings: 39.6K

• Total Booking Value: \$590.3K

• Average Booking Value: \$14.9

• Total Trip Distance: 134K miles

Booking by Pickup Time

Peak booking hours are 10:00 AM - 6:00 PM

Bopking sharply increases from 6:00 AM, peaks around 12:00 PM - 1:00 PM, then declines after 8:00

Booking by Day Name

Day	Bookings
Monday	6.5K
Tuesday	6.5K
Wednesday	6.4K
Thursday	5.1K
Friday	6.5K
Saturday	6.4K
Sunday	6.4K

insight: Thursday sees a slight dip; other days have consistent bookings.

3. Detailed Data View

• Total Booking Records: 103,728

• Total Trip Distance: 348,933.81 miles

• Total Booking Value: \$1,563,672.8

Sample Record Insight:

- Most trips are **short-distance** (~3-6 miles) with an average fare of ~\$15
- Passenger count is mostly 1, indicating solo rides dominate

🗩 4. Data Model Overview

Entity Relationships:

- Trip Details (Fact Table)
 - Linked to:
 - Location Table via LocationID
 - Calendar Table via Date
- **Dynamic Measure Table** for dynamic aggregation across visualizations
 - Insight: Well-normalized star schema enhances performance and scalability

Key Insights & Recommendations

Insights:

- High Dependence on UberX: Indicates it's preferred for affordability and availability
- **Uber Pay Dominance:** Majority of users prefer digital payment
- Strong Daytime Activity: Aligns with office commute and daytime errands
- **Location Relevance:** Pickup hotspots suggest these areas may benefit from fleet optimization.

Recommendations:

- 1. Optimize Vehicle Allocation in peak pickup locations like Penn Station and Upper East Side.
- 2. **Promote Off-Peak Discounts** to increase night-time or Thursday bookings.
- 3. Introduce Loyalty Programs for UberX and Uber Comfort riders to boost engagement.
- 4. Enhance App Experience during 10 AM-6 PM for smoother trip handling and quick ride-matching.