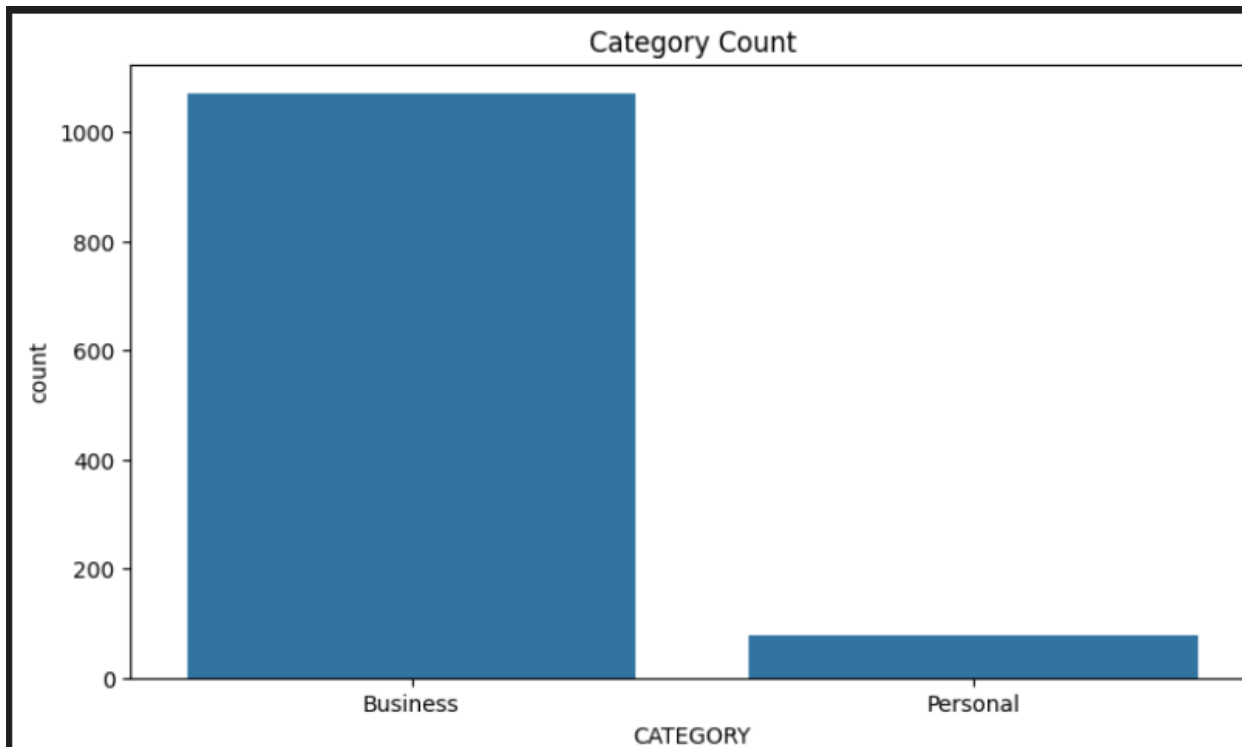


# Problem Statement

## 1. In which category do people book the most Uber rides?



### Output:

Looking at your **Category Count chart**, the answer is clear:

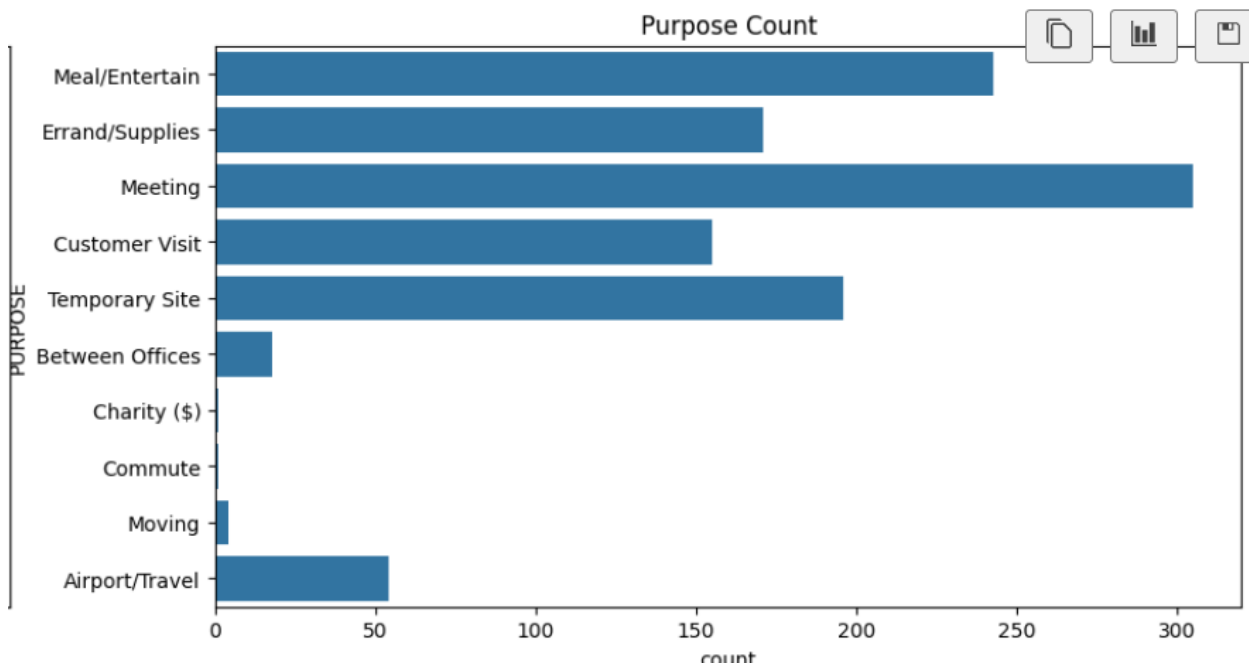
#### ➤ Most booked category:

- **Business rides** dominate the dataset.
- The bar for **Business** is significantly taller (slightly above 1000 rides), compared to **Personal** (just above 100 rides).

#### ➤ Explanation:

- **Business category:** People book far more Uber rides for business purposes — commuting to work, client meetings, airport transfers, etc.
- **Personal category:** While present, it's much smaller, suggesting fewer rides are logged as personal trips.

## 2. For which purpose do people book Uber rides the most?



**Output:**

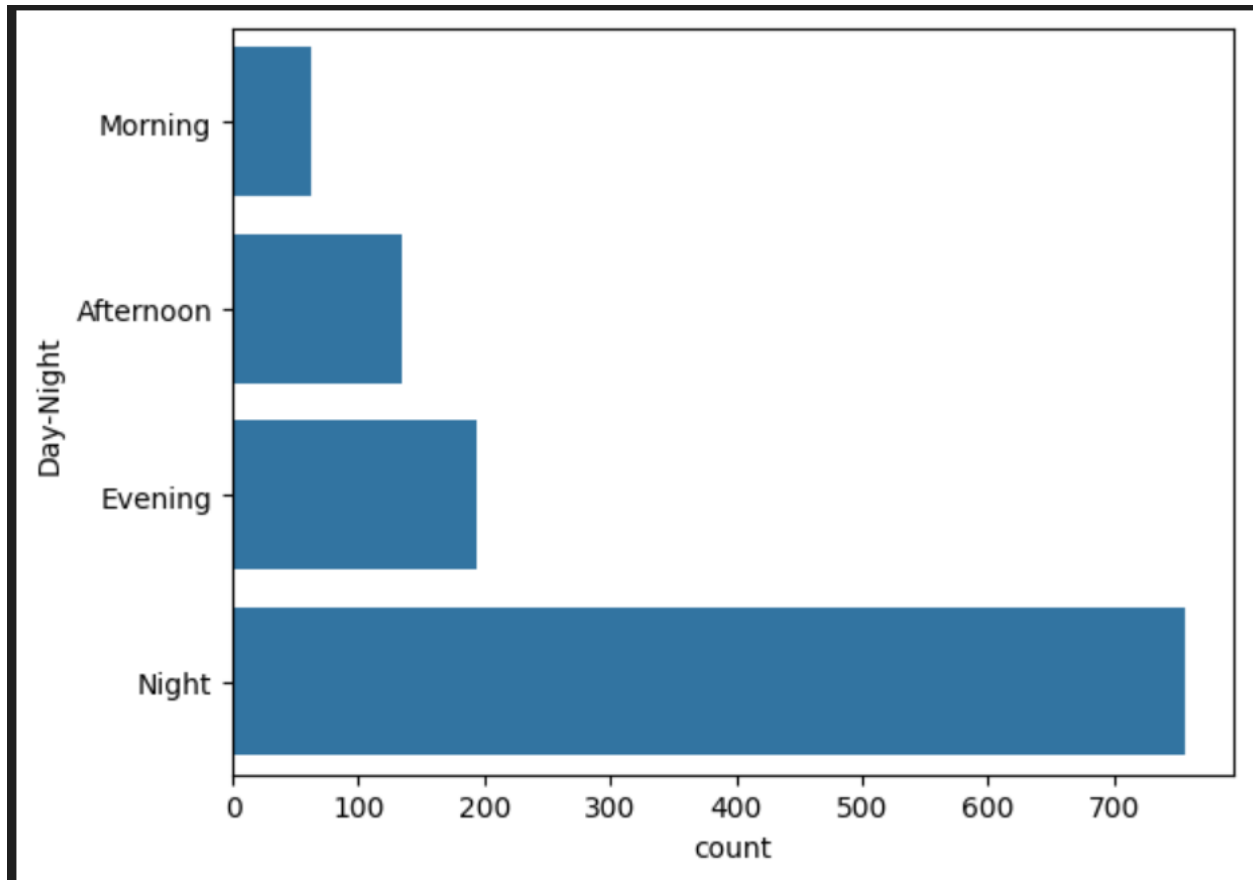
➤ **Most booked purpose:**

- The **Meeting** category has the highest count (around 300 rides).
- Other common purposes include **Meal/Entertain (~275)** and **Errand/Supplies (~200)**, but they are slightly lower.
- Purposes like **Commute, Charity, Moving, Between Offices** are very rare or almost negligible

➤ **Explanation:**

- **Meetings dominate:** This suggests that Uber rides are most often booked for professional or business-related meetings.
- **Meal/Entertain and Errand/Supplies:** These are also significant, showing that Uber is used for social outings and everyday tasks.
- **Low-frequency categories:** Airport/Travel, Customer Visits, and others are much less common, indicating they are occasional rather than routine uses.

**3. At what time do people book cabs the most from Uber?**



Output:

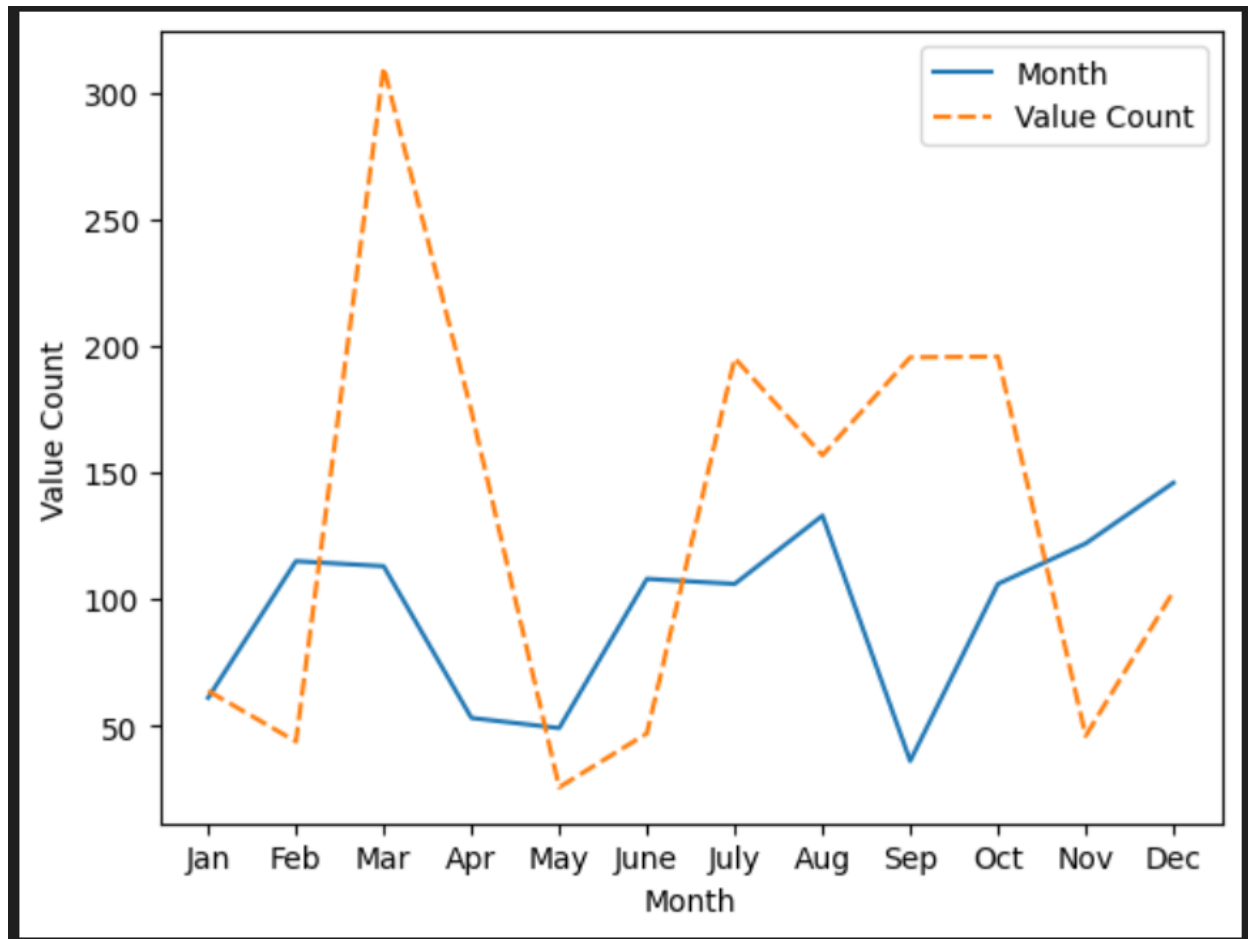
➤ **Most booked time:**

- **Night** has the highest count, with well over **700 rides**.
- **Evening** follows at around **200 rides**, then **Afternoon (~150)**, and finally **Morning (~75)**.

➤ **Explanation:**

- **Night dominates:** People book Uber cabs most frequently at night. This could be due to late-night social outings, returning from work shifts, or airport travel during off-peak hours.
- **Evening and Afternoon:** These are secondary peaks, likely tied to after-work commutes, errands, or social activities.
- **Morning:** The lowest usage, suggesting fewer people rely on Uber for early commutes compared to other times.

4. In which months do people booking Uber rides less frequently?



Output:

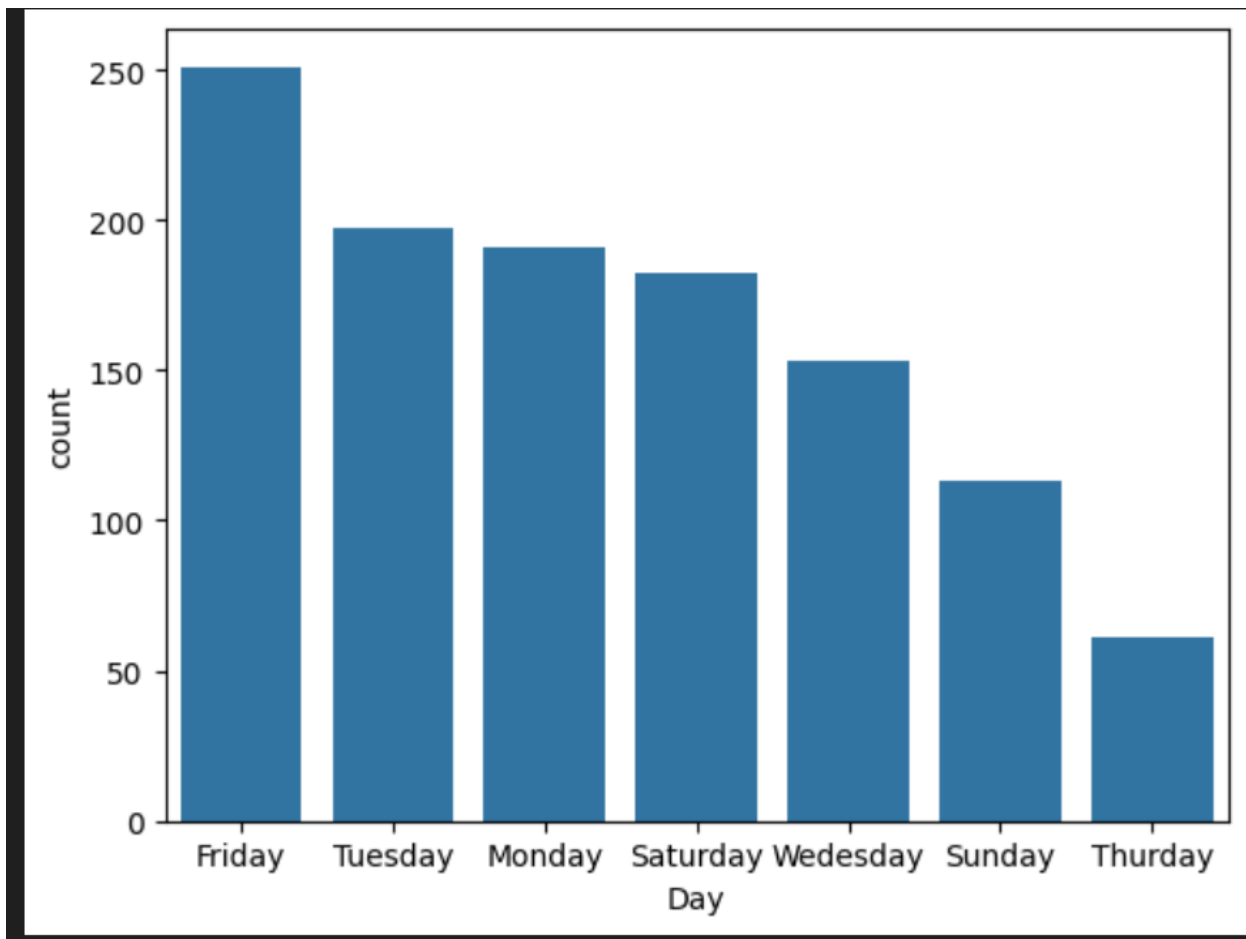
➤ **Months with fewer Uber bookings:**

- **September** shows a sharp drop in bookings the lowest point in the chart.
- **January and November** also appear relatively low compared to other months.
- Peaks occur in **April** and again in **September for Value Count**, but the solid line (Month trend) dips significantly in September, confirming reduced activity.

➤ **Explanation:**

- **September dip:** This could be seasonal — fewer business trips or reduced travel demand during that period.
- **January and November:** Often quieter months, possibly due to post-holiday slowdown (January) and pre-holiday planning (November).
- **Overall pattern:** The dataset shows that ride demand is not evenly distributed; certain months consistently attract fewer bookings.

5. On which days of the week do people book Uber rides the most?



**Output:**

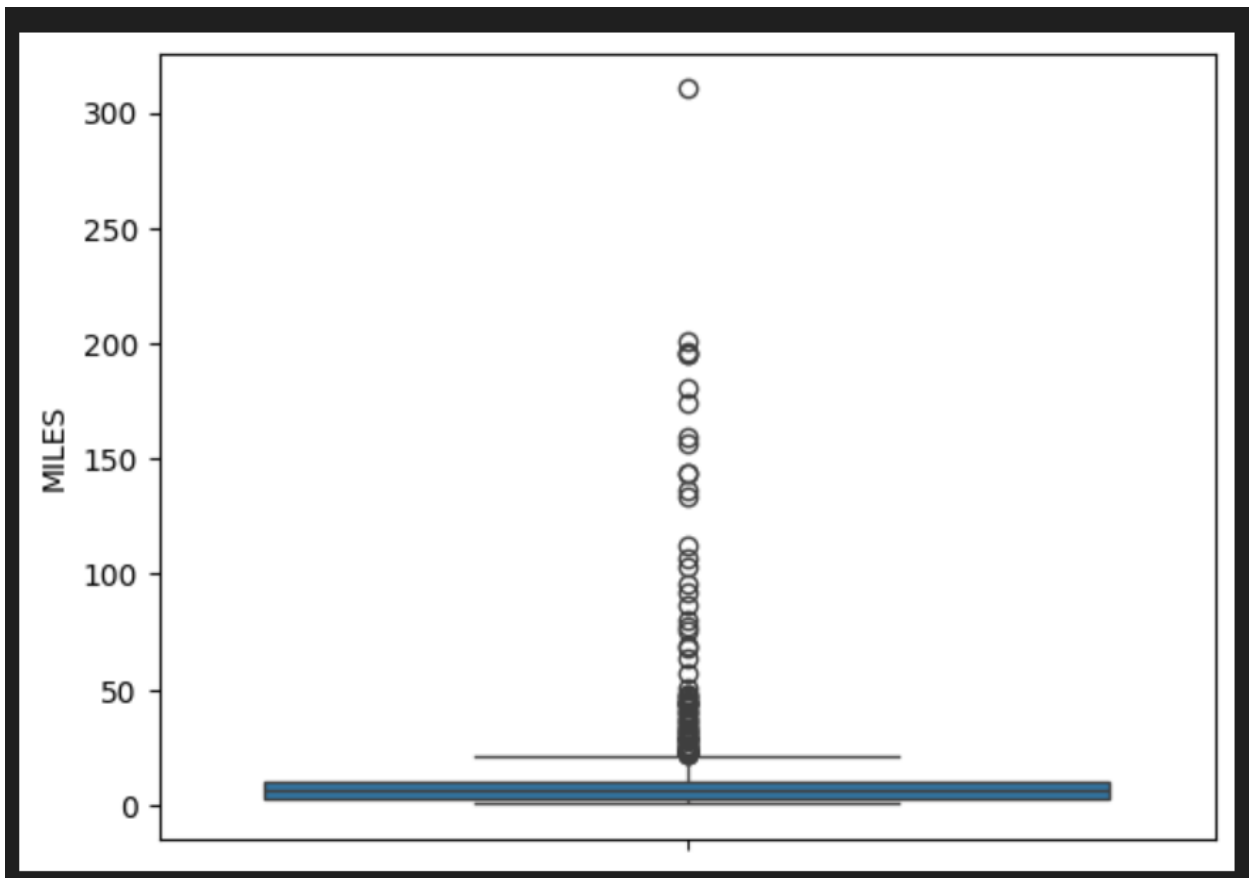
➤ **Most booked day:**

- **Friday** has the highest count, making it the day when people book Uber rides the most.
- It is followed by **Tuesday** and **Monday**, which also show relatively high counts.
- The lowest booking activity is on **Thursday**, with Sunday and Wednesday sitting in the middle range.

➤ **Explanation:**

- **Friday peak:** This makes sense — Fridays often involve social outings, late-night plans, and end-of-week work meetings, all of which drive higher demand for rides.
- **Tuesday and Monday:** These are strong weekdays, likely reflecting business travel, commuting, and meetings early in the week.
- **Thursday dip:** The lowest demand suggests fewer events or travel needs compared to other days.
- **Weekend (Saturday & Sunday):** Moderate usage, probably tied to leisure activities rather than business.

**6. How many miles do people usually book a cab for through Uber?**



**Output:**

➤ **Typical ride distance:**

- The **median** (middle line in the box) is around **5–10 miles**, meaning half of the rides are shorter than this and half are longer.
- The **interquartile range (IQR)** — the box itself — shows most rides fall between roughly **3 miles and 15 miles**.
- This range represents the “usual” ride distance for most users.
- There are rare but indicate occasional very long trips (e.g., intercity travel, airport transfers).

➤ **Explanation:**

- **Most Uber rides are short to medium trips** (commutes, errands, meetings), typically within **3–15 miles**.
- The presence of extreme outliers shows that while Uber is mainly used for local travel, it can also serve long-distance needs.