Rush Patterns & Utilization Report
CAVE CAFE

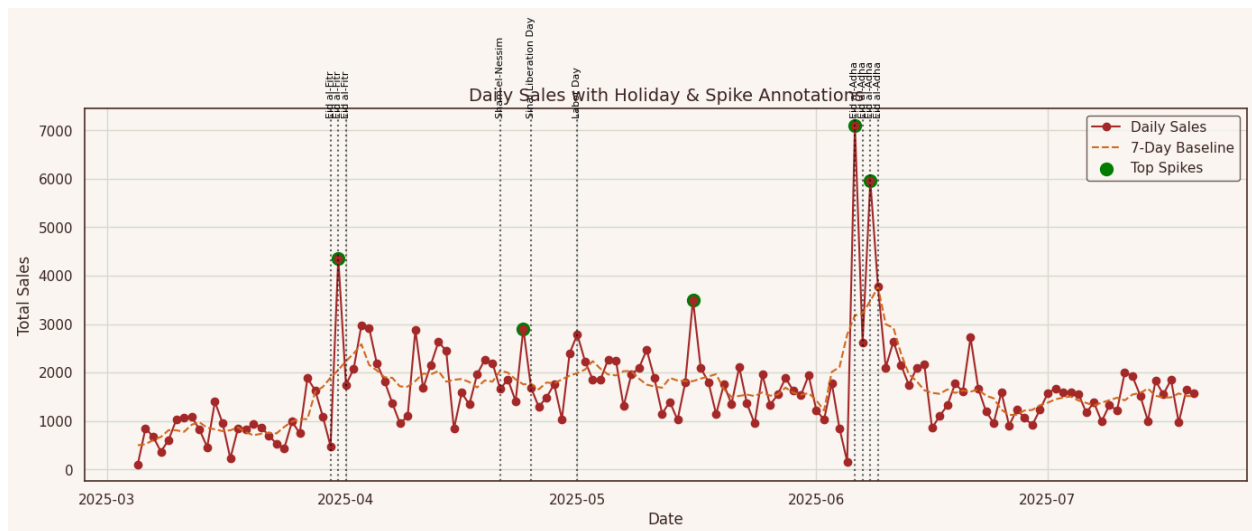## Executive summary

- **Consistent rush week:** Week 4 of each month is the most active on average (≈ 312 orders), confirming a reliable end-of-month rush.

- **Peaks over time:** A modest negative correlation (−0.315) between month index and weekly orders suggests **later months are slightly weaker**, even though the week-4 pattern holds.

- **Holiday surges outside week-4:**

    ○ April, week 1 shows a large positive deviation (+118) aligned with Eid al-Fitr.

    ○ June, week 2 spikes (+104) aligned with Eid al-Adha.

- **Rush hours and shifts**: Night shift dominates revenue (173.6k vs 52.6k Day).
- **Top hours**: 22:00 and 20:00 (by revenue and orders). However, **Day shift:** peaks at 15:00 and 17:00.

- **Strong calendar effects**: April and May are top months (by both revenue and orders). Friday/Saturday lead by weekday by orders , Friday/Thursday by revenue

- **Tables hot spots**: Tables 1, 8, 3, 6, 14 are consistently most used; these are likely bottlenecks during 21:00–22:00.
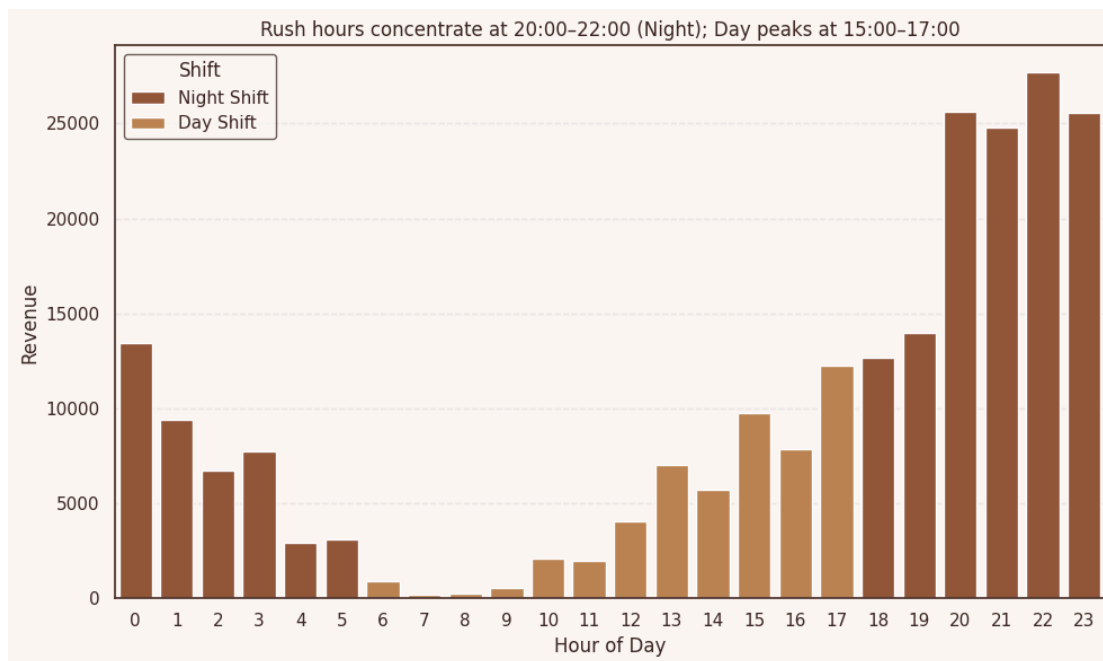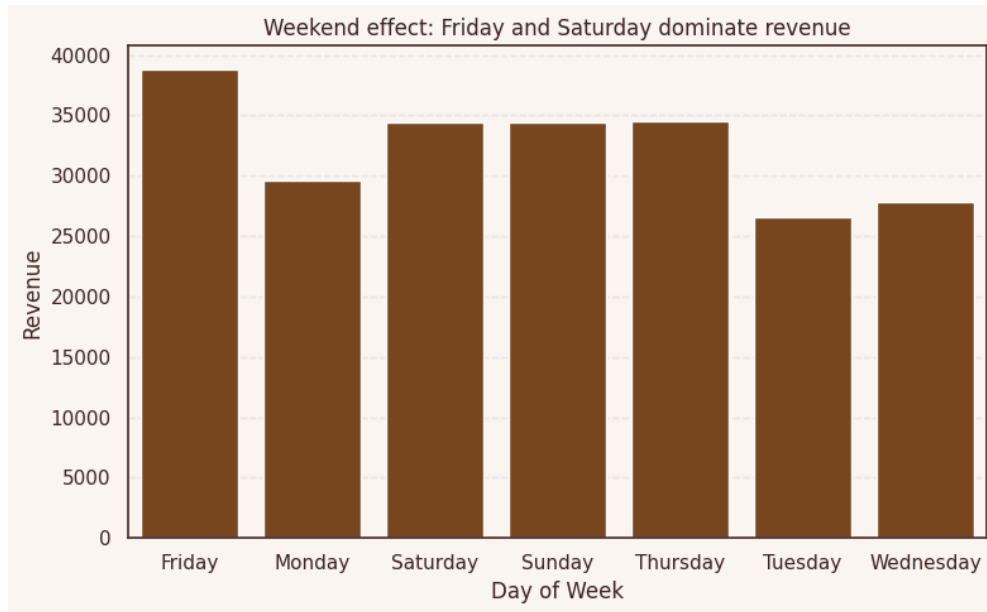
Visualizations

Daily revenue with annotated Egyptian holidays. Notice surges in early April (Eid al-Fitr) and mid-June (Eid al-Adha).
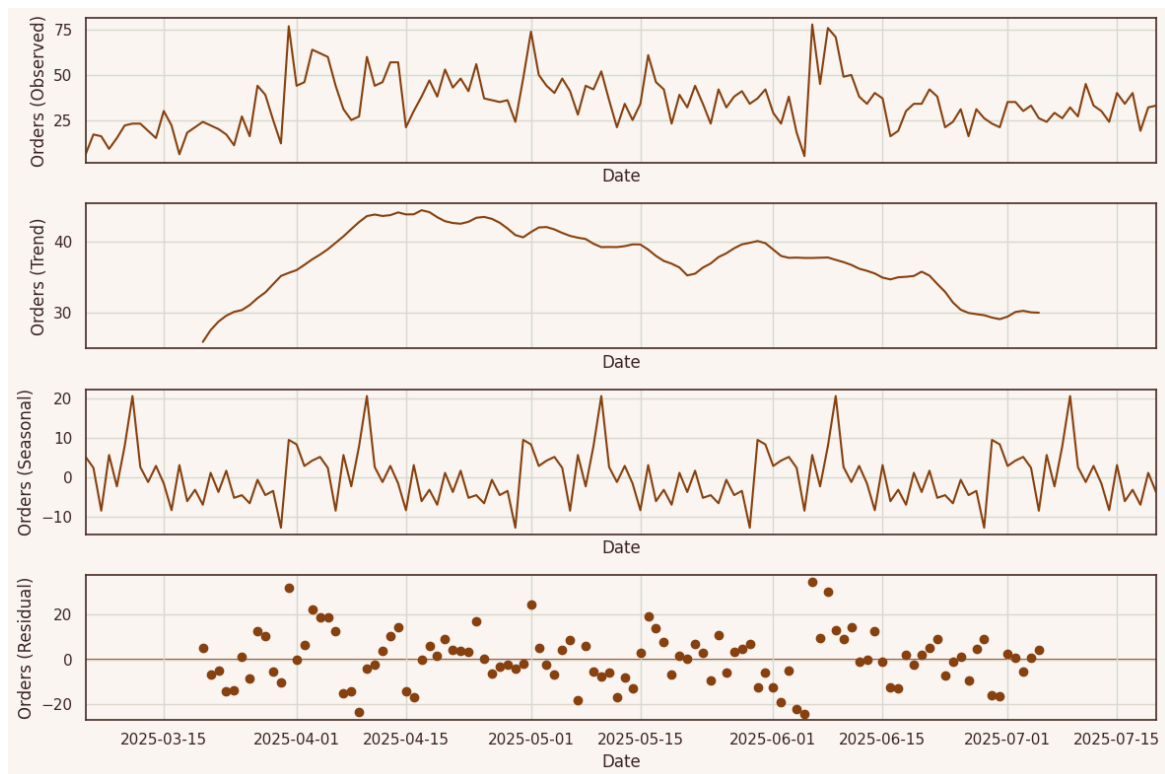

Rush hours concentrate at 20:00–22:00 (Night); Day peaks at 15:00–17:00.

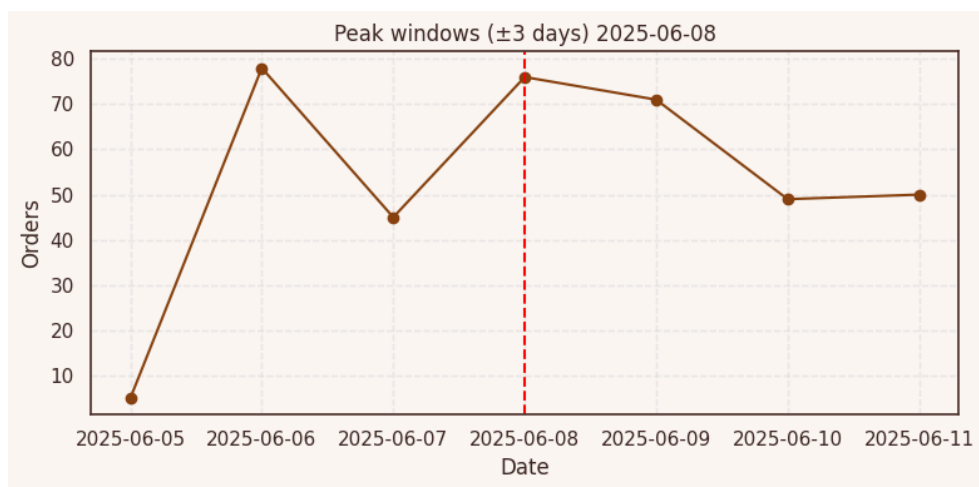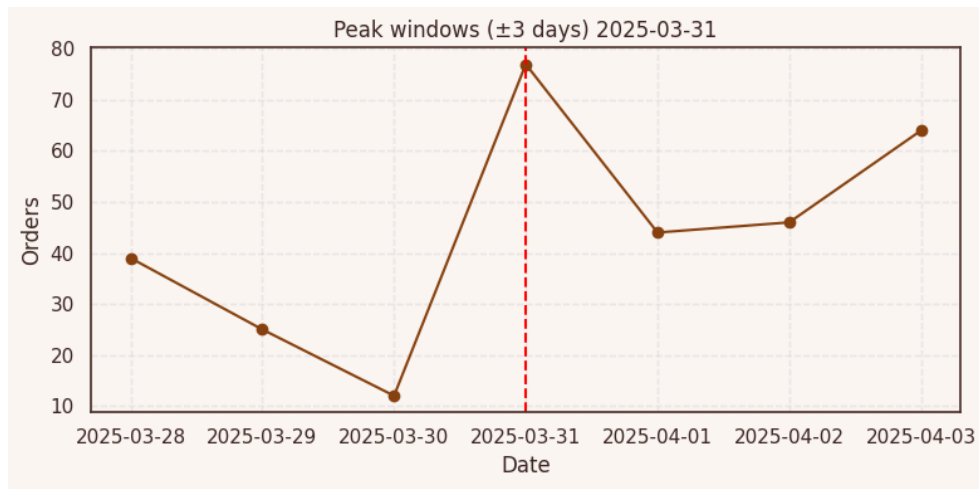Weekend effect: Friday and Saturday dominate revenue.

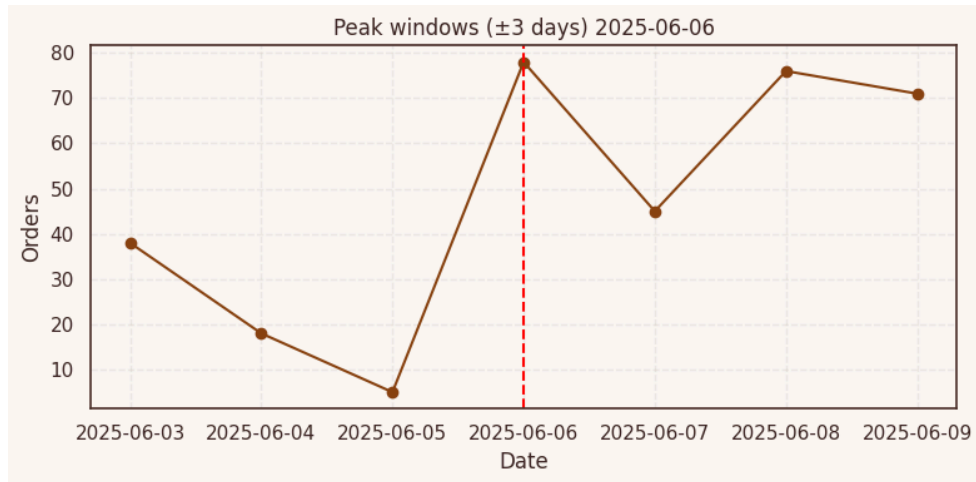Weekend effect: Friday and Saturday dominate revenue
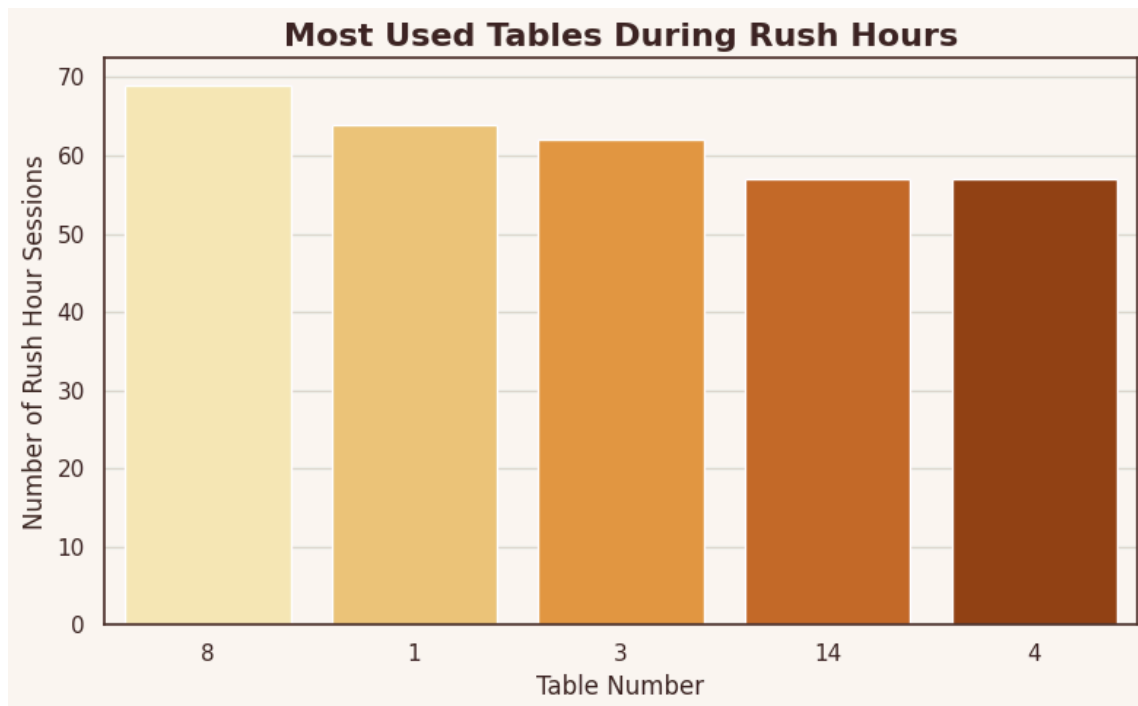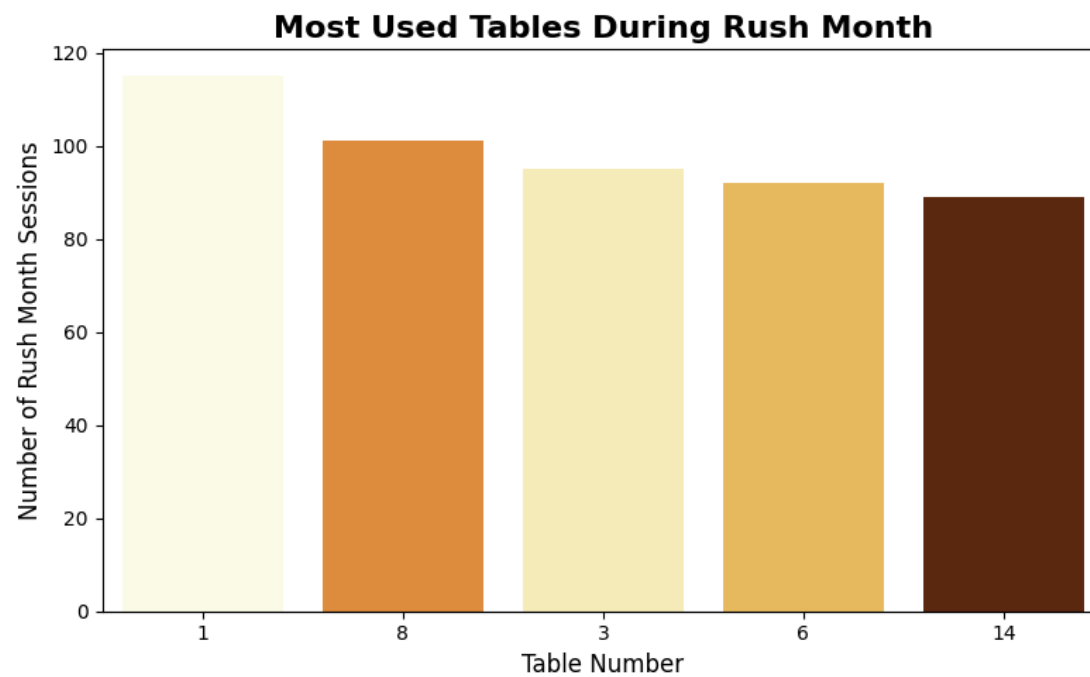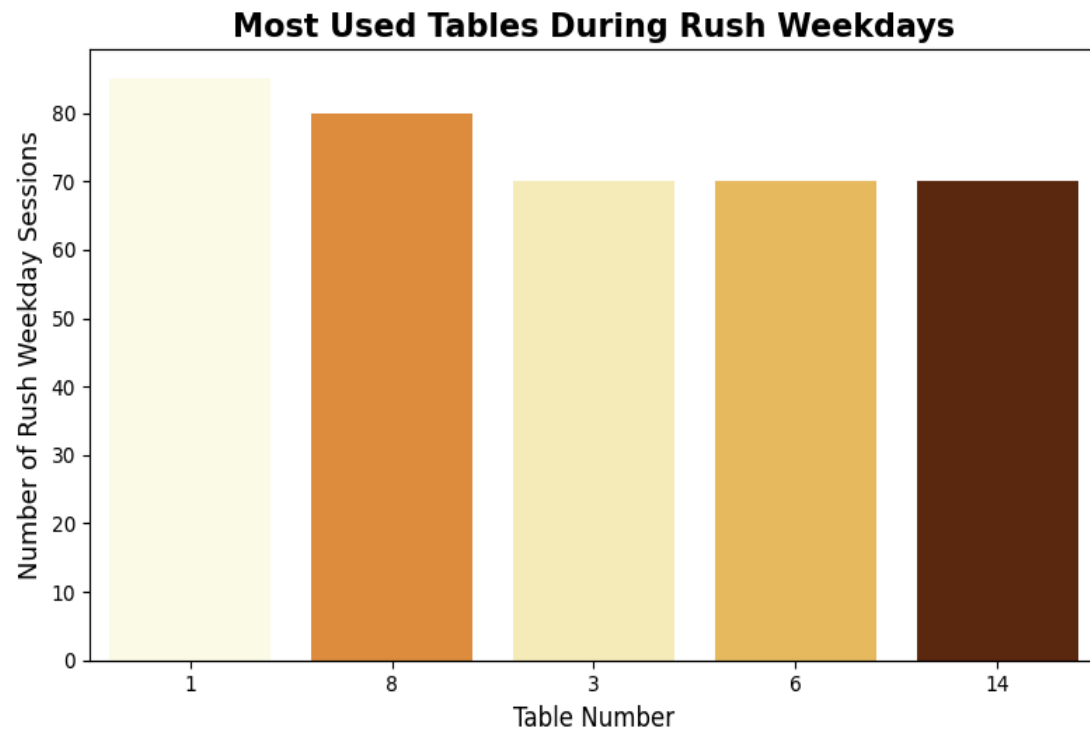
Seasonal decomposition

Peak-focus zooms (±3 days)

Peak windows (±3 days) 2025-06-06

Peak windows (±3 days) 2025-03-31

Peak windows (±3 days) 2025-06-08

Where :

Date	Day of Week	Holiday Context
March 31	Monday	2nd day of **Eid al-Fitr**
June 6	Friday	1st day of **Eid al-Adha**
June 8	Sunday	Within **Eid al-Adha** period

Top tables by utilization—focus on balancing load for tables 1, 8, 3, 6, 14

Most Used Tables During Rush Weekdays

Most Used Tables During Rush Month

Table Number	Table ID	Total Session Count
1	b1_7OZYBC	409
8	b1_0V4WSM	427
3	b1_50357Z	382
6	b1_BJL0T4	301
14	b1_LES6SG	325