

# AUTOMATIC DATA REPORT

04 September 2025

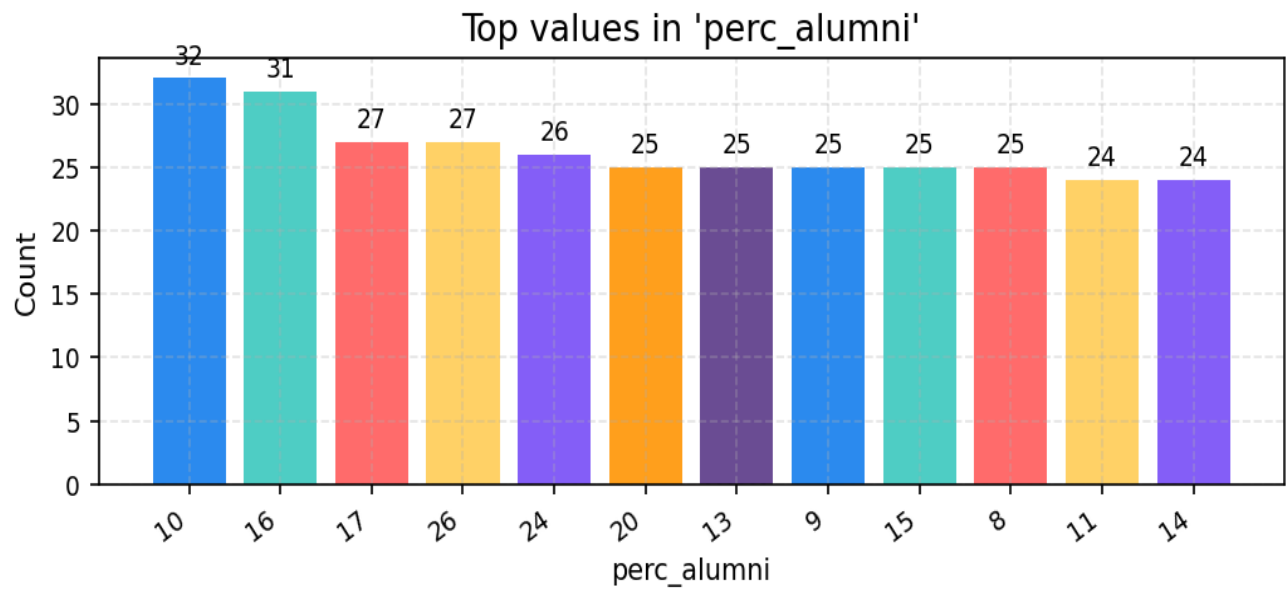
Data preview (first 8 rows)

| perc | Top25perc | F_Undergrad | P_Undergrad | Outstate | Room_Board | Books | Personal | PhD | Terminal | S_F_Ratio | perc_al |
|------|-----------|-------------|-------------|----------|------------|-------|----------|-----|----------|-----------|---------|
|      | 52        | 2885        | 537         | 7440     | 3300       | 450   | 2200     | 70  | 78       | 18.1      | 12      |
|      | 29        | 2683        | 1227        | 12280    | 6450       | 750   | 1500     | 29  | 30       | 12.2      | 16      |
|      | 50        | 1036        | 99          | 11250    | 3750       | 400   | 1165     | 53  | 66       | 12.9      | 30      |
|      | 89        | 510         | 63          | 12960    | 5450       | 450   | 875      | 92  | 97       | 7.7       | 37      |
|      | 44        | 249         | 869         | 7560     | 4120       | 800   | 1500     | 76  | 72       | 11.9      | 2       |
|      | 62        | 678         | 41          | 13500    | 3335       | 500   | 675      | 67  | 73       | 9.4       | 11      |
|      | 45        | 416         | 230         | 13290    | 5720       | 500   | 1500     | 90  | 93       | 11.5      | 26      |
|      | 68        | 1594        | 32          | 13868    | 4826       | 450   | 850      | 89  | 100      | 13.7      | 37      |

Numeric summary (basic stats)

| column      | count | mean      | std      | min    | 25%    | 50%    | 75%     | max     |
|-------------|-------|-----------|----------|--------|--------|--------|---------|---------|
| Names       | 0.0   | nan       | nan      | nan    | nan    | nan    | nan     | nan     |
| Apps        | 777.0 | 3001.638  | 3870.201 | 81.0   | 776.0  | 1558.0 | 3624.0  | 48094.0 |
| Accept      | 777.0 | 2018.804  | 2451.114 | 72.0   | 604.0  | 1110.0 | 2424.0  | 26330.0 |
| Enroll      | 777.0 | 779.973   | 929.176  | 35.0   | 242.0  | 434.0  | 902.0   | 6392.0  |
| Top10perc   | 777.0 | 27.559    | 17.64    | 1.0    | 15.0   | 23.0   | 35.0    | 96.0    |
| Top25perc   | 777.0 | 55.797    | 19.805   | 9.0    | 41.0   | 54.0   | 69.0    | 100.0   |
| F_Undergrad | 777.0 | 3699.907  | 4850.421 | 139.0  | 992.0  | 1707.0 | 4005.0  | 31643.0 |
| P_Undergrad | 777.0 | 855.299   | 1522.432 | 1.0    | 95.0   | 353.0  | 967.0   | 21836.0 |
| Outstate    | 777.0 | 10440.669 | 4023.016 | 2340.0 | 7320.0 | 9990.0 | 12925.0 | 21700.0 |
| Room_Board  | 777.0 | 4357.526  | 1096.696 | 1780.0 | 3597.0 | 4200.0 | 5050.0  | 8124.0  |
| Books       | 777.0 | 549.381   | 165.105  | 96.0   | 470.0  | 500.0  | 600.0   | 2340.0  |
| Personal    | 777.0 | 1340.642  | 677.071  | 250.0  | 850.0  | 1200.0 | 1700.0  | 6800.0  |
| PhD         | 777.0 | 72.66     | 16.328   | 8.0    | 62.0   | 75.0   | 85.0    | 103.0   |
| Terminal    | 777.0 | 79.703    | 14.722   | 24.0   | 71.0   | 82.0   | 92.0    | 100.0   |
| S_F_Ratio   | 777.0 | 14.09     | 3.958    | 2.5    | 11.5   | 13.6   | 16.5    | 39.8    |
| perc_alumni | 777.0 | 22.744    | 12.392   | 0.0    | 13.0   | 21.0   | 31.0    | 64.0    |
| Expend      | 777.0 | 9660.171  | 5221.768 | 3186.0 | 6751.0 | 8377.0 | 10830.0 | 56233.0 |
| Grad_Rate   | 777.0 | 65.463    | 17.178   | 10.0   | 53.0   | 65.0   | 78.0    | 118.0   |

## Top categorical distributions



## Share in 'perc\_alumni'

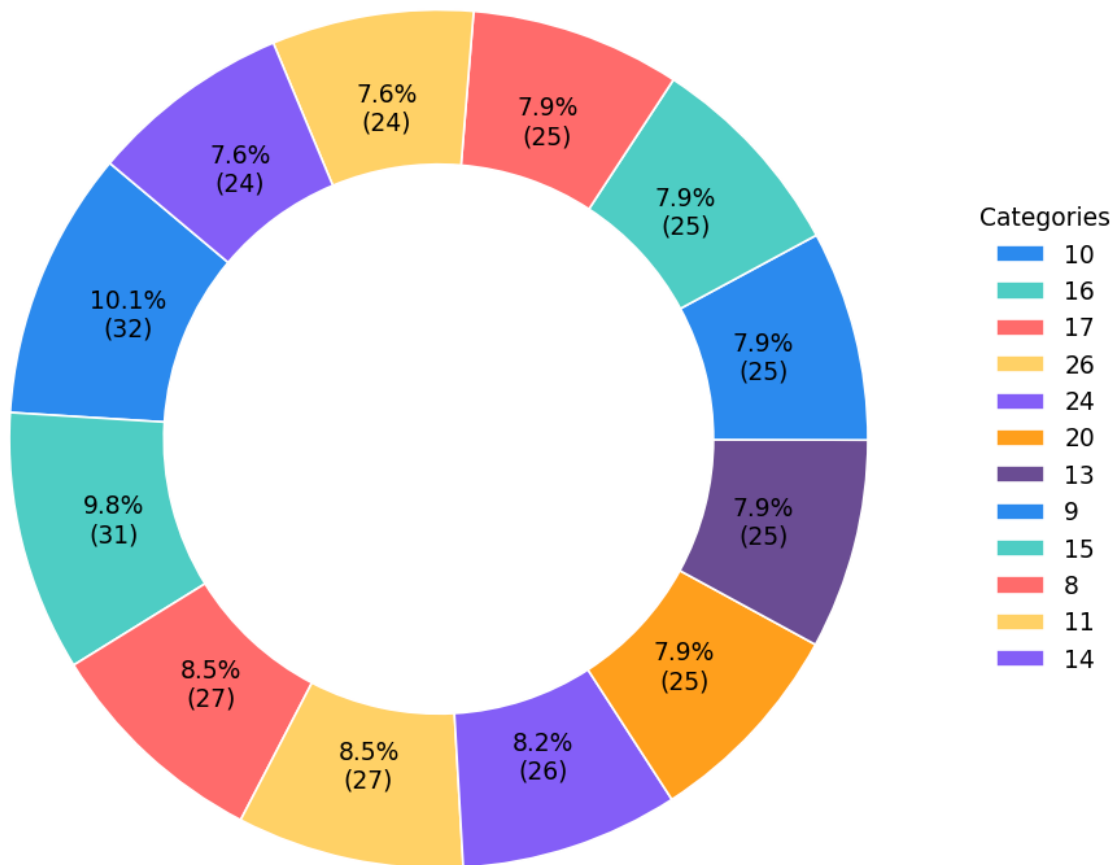


Figure: Distribution and share of top values in **perc\_alumni**.

## Time-series & trend analysis

Not enough time-series points to build a day-level trend (need  $\geq 3$  days).

## Distributions & outliers

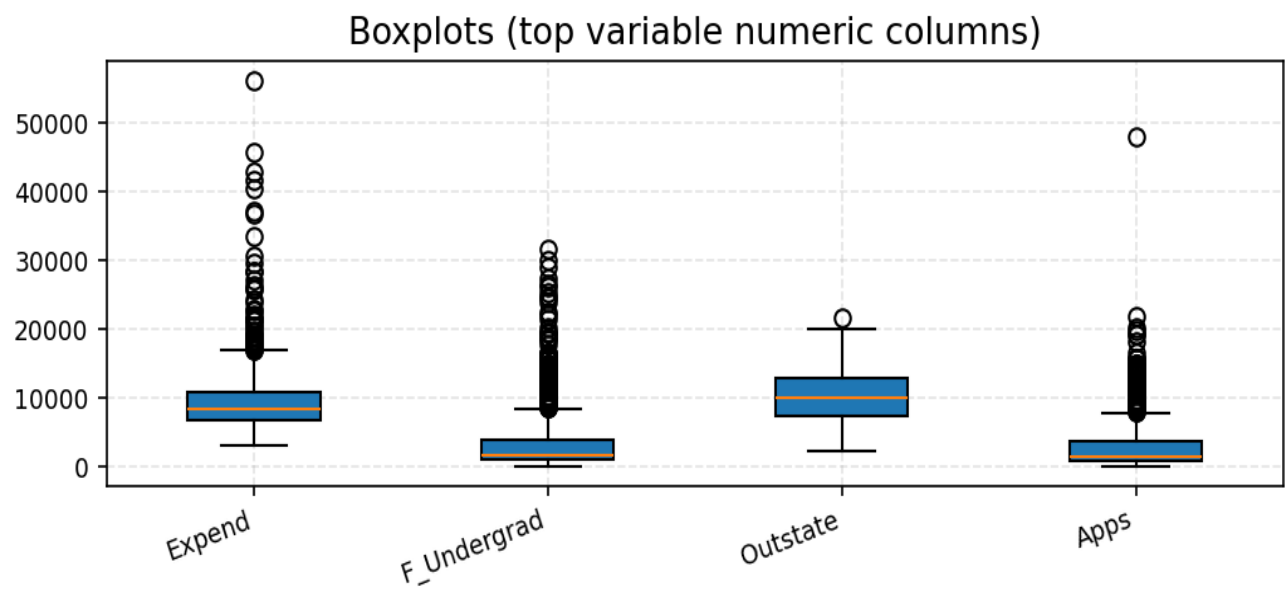
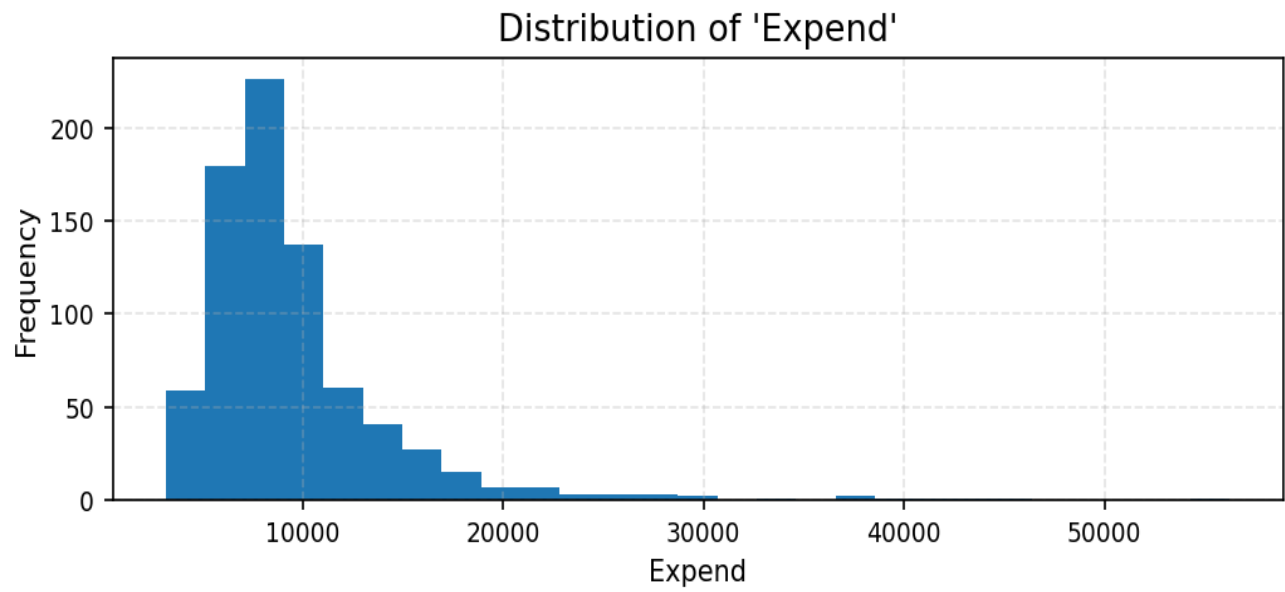
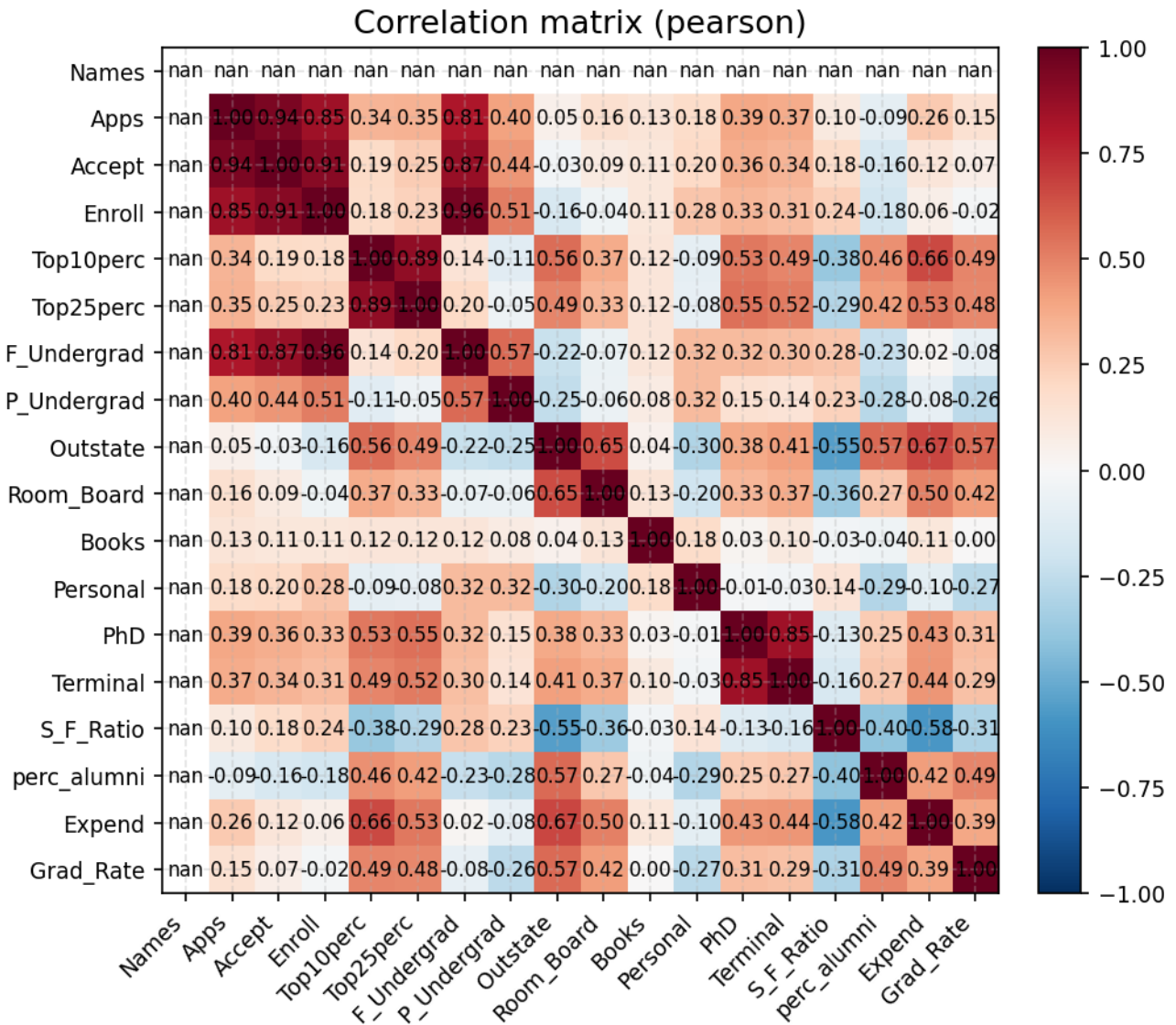


Figure: Histogram and boxplots for key numeric columns.

## Correlation & relationships



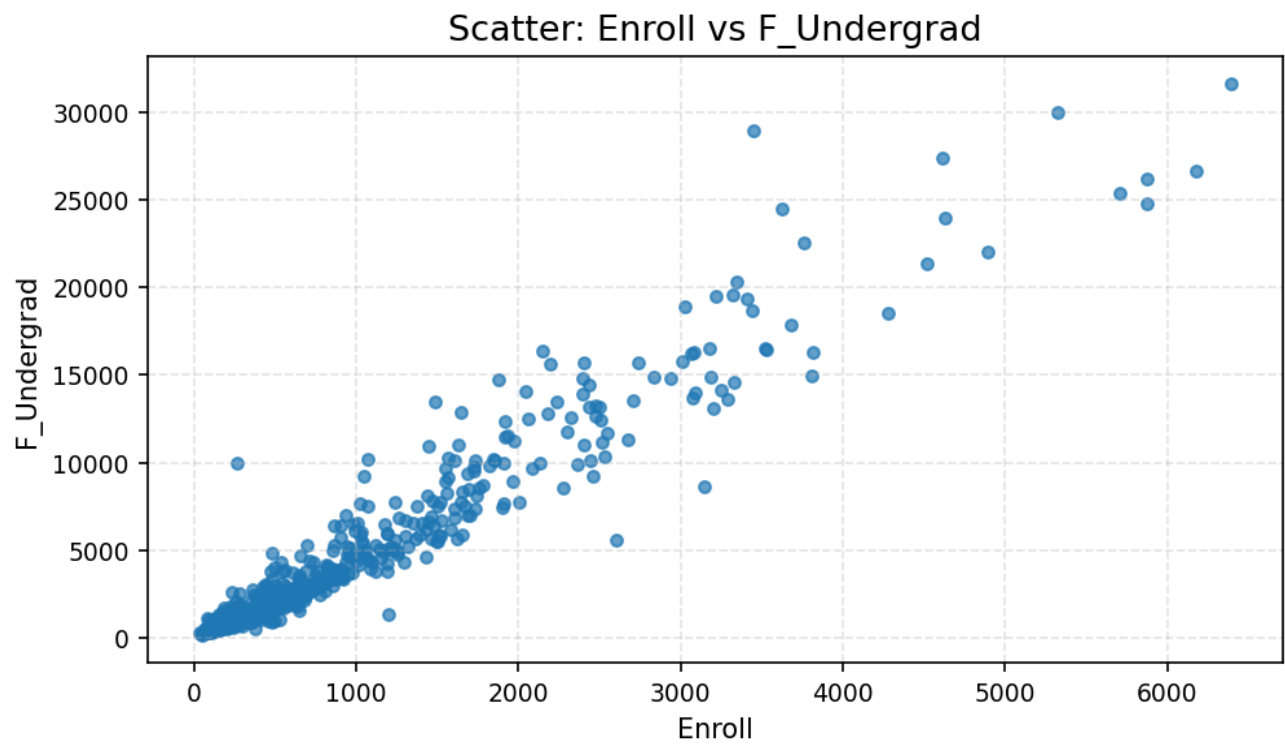


Figure: Top correlated pair by absolute Pearson correlation: **Enroll & F\_Undergrad**.

Summaries (percentiles & active time ranges)

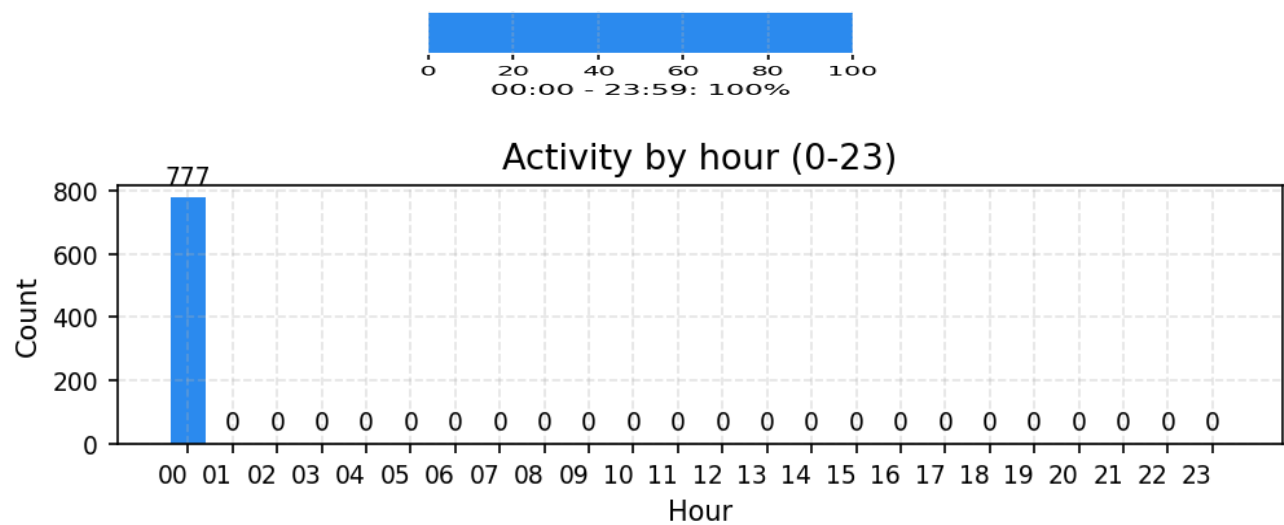


Figure: Data-driven active time ranges and hourly activity distribution.



## Automated summary & insights

- Column with largest total: **Outstate**
- Column with highest mean: **Outstate**
- Most frequent value in **perc\_alumni**: 10
- Detected date column: **Apps**