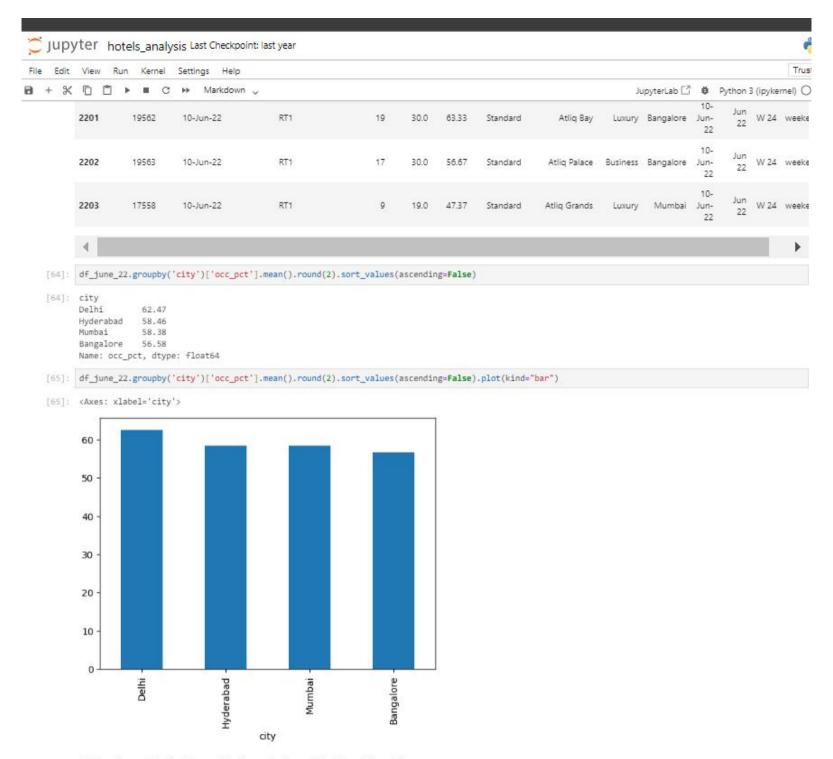




File Edit View Run Kernel Settings Help Trusted B + X □ □ ▶ ■ C → Markdown ↓ JupyterLab [2] # Python 3 (ipykernel) ○ ■ [68]: date mmm yy week no day_type 0 01-May-22 May 22 W 19 weekend 1 02-May-22 May 22 W 19 weekeday 2 03-May-22 May 22 W 19 weekeday [61]: df = pd.merge(df, df date, left on="check in date", right on="date") df.head(3) [61]: mmm week property id check in date room category successful bookings capacity occ pct room class property name category city date 0 19563 10-May-22 51.72 Premium Atliq Palace Business Bangalore May-W 20 weekeda 22 10-RT1 63.33 Atliq City Business Hyderabad May-W 20 weekeda 18560 10-May-22 30.0 Standard 10-19562 10-May-22 RT1 18 30.0 60.00 Standard Luxury Bangalore May-W 20 weekeda Atlig Bay [62]: df.groupby("day_type")["occ_pct"].mean().round(2) [62]: day_type weekeday 50.90 weekend 72.39 Name: occ_pct, dtype: float64 4: In the month of June, what is the occupancy for different cities [63]: df_june_22 = df[df["mmm yy"]=="Jun 22"] df_june_22.head(4) [63]: property_id check_in_date room_category successful_bookings capacity occ_pct room_class property_name category day_t city date no Jun 16559 RT1 Atliq Exotica 2200 10-Jun-22 Standard W 24 weeke Luxury Mumbai Jun-22 22 10-2201 RT1 W 24 weeks 19562 10-Jun-22 30.0 63.33 Standard Luxury Bangalore Jun-22 10-2202 19563 10-Jun-22 RT1 30.0 56.67 Atliq Palace Business Bangalore Jun-W 24 weeke Standard 10-



5: We got new data for the month of august. Append that to existing data

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JupyterLab ☐ # Python 3 (ipykernel) ○ :

5: We got new data for the month of august. Append that to existing data

[66]: df august = pd.read csv("datasets/new data august.csv") df august.head(3)

1:	property_id	property_name	category	city	room_category	room_class	check_in_date	mmm yy	week no	day_type	successful_bookings	capacity	occ%
0	16559	Atliq Exotica	Luxury	Mumbai	RT1	Standard	01-Aug-22	Aug-22	W 32	weekeday	30	30	100.00
1	19562	Atliq Bay	Luxury	Bangalore	RT1	Standard	01-Aug-22	Aug-22	W 32	weekeday	21	30	70.00
2	19563	Atliq Palace	Business	Bangalore	RT1	Standard	01-Aug-22	Aug-22	W 32	weekeday	23	30	76.67

[67]: df august.columns

```
[67]: Index(['property_id', 'property_name', 'category', 'city', 'room_category',
  'room_class', 'check_in_date', 'mmm yy', 'week no', 'day_type',
 'successful_bookings', 'capacity', 'occ%'],
dtype='object')
```

[68]: df.columns

```
[68]: Index(['property_id', 'check_in_date', 'room_category', 'successful_bookings',
  'capacity', 'occ_pct', 'room_class', 'property_name', 'category',
 'city', 'date', 'mmm yy', 'week no', 'day_type'],
dtype='object')
```

[69]: df_august.shape

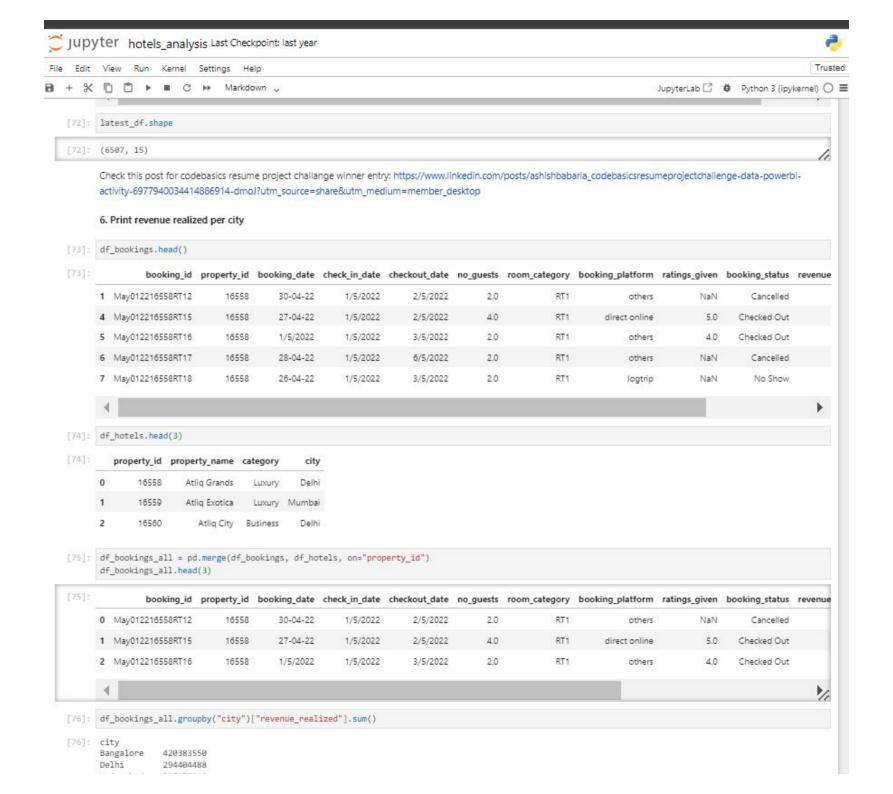
[69]: (7, 13)

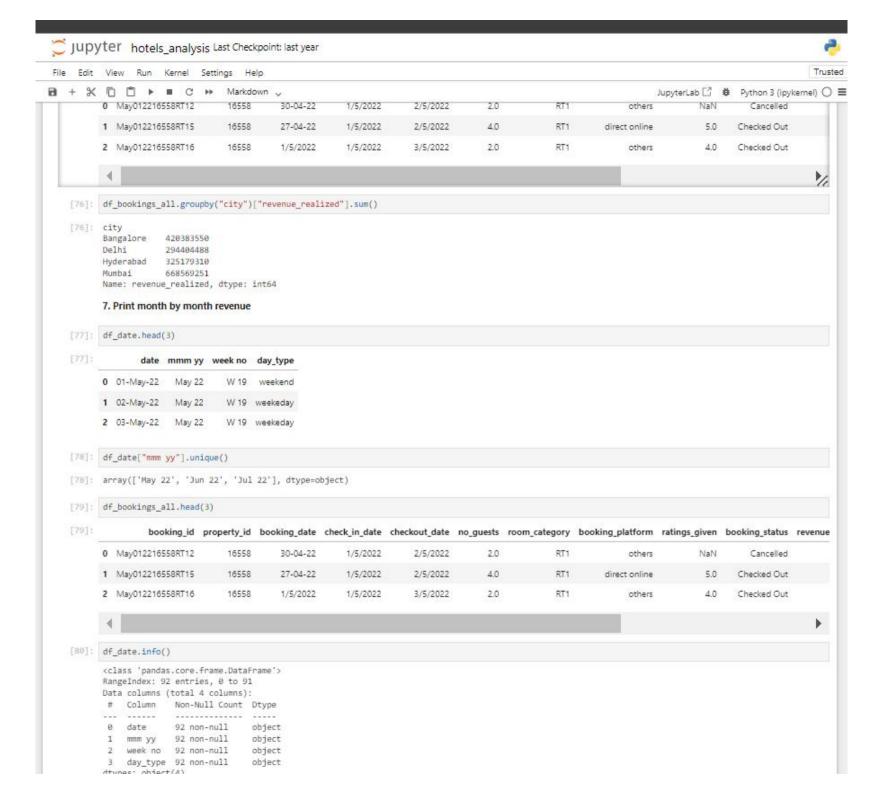
[70]: df.shape

[78]: (6500, 14)

[71]: latest_df = pd.concat([df, df_august], ignore_index = True, axis = 0) latest df.tail(10)

property_id check_in_date room_category successful_bookings capacity occ_pct room_class property_name category city date 31-6497 17558 31-Jul-22 RT4 3 Jul- Jul 22 W 32 week 50.0 Presidential Atliq Grands Luxury Mumbai 22 31-6498 19563 RT4 50.0 Presidential 31-Jul-22 6.0 Atliq Palace Business Bangalore Jul- Jul 22 W 32 week 22 31-6499 17561 RT4 Luxury Mumbai Jul- Jul 22 W 32 week 31-Jul-22 75.0 Presidential 4.0 Atlig Blu 20 200 NaN Standard Atlia Supries Lineary Mumbai NaN Aug- 18/22 weeks cron 16EE0 01 Aug 22





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