

# 1.what is an average occupancy rate in each of the room categories?

df	f_agg_booking	s["occ_pct"] :	df_agg_booking	gs["successful_booki	ngs"]/df_	agg_book	ings["ca			
df	F_agg_booking	s.head(4)								
:	property_id	check_in_date	room_category	successful_bookings	capacity	occ_pct				
0	16559	1-May-22	RT1	25	30.0	83.33				
1	19562	1-May-22	RT1	28	30.0	93.33				
2	19563	1-May-22	RT1	23	30.0	76.67				
3	17558	1-May-22	RT1	30	19.0	157.89				
df	F_agg_booking	s["occ_pct"] :	df_agg_booking	gs["occ_pct"].apply(	lambda x:	round(x	100,2))			
df	df agg bookings.head(4)									
	property id	check in date	room category	successful bookings	capacity	occ nct				
0	16559	1-May-22	RT1	25	30.0	83.33				
1	19562	1-May-22	RT1	28	30.0	93.33				
2	19563	1-May-22	RT1	23	30.0	76.67				
3	17558	1-May-22	RT1	30	19.0	157.89				
df	F_agg_booking	s.groupby("roo	om_category")["d	occ_pct"].mean().rou	nd(2)					
RT	Dom_category F1 58.22 F2 58.04 F3 58.03									

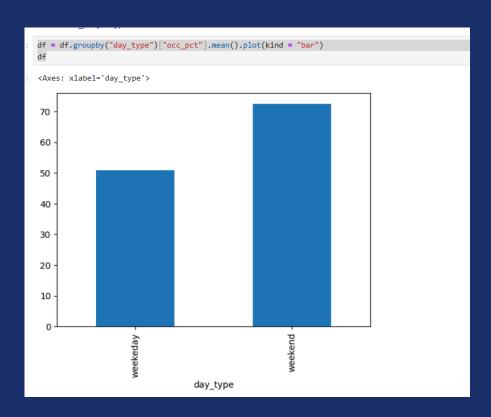


## 2.print average occupancy rate per city?

	pd.merge( ead(4)	df,df_hotels,	on = "property_i	id")							
р	roperty_id	check_in_date	room_category	successful_bookings	capacity	occ_pct	room_id	room_class	property_name	category	city
)	16559	1-May-22	RT1	25	30.0	83.33	RT1	Standard	Atliq Exotica	Luxury	Mumbai
	16559	2-May-22	RT1	20	30.0	66.67	RT1	Standard	Atliq Exotica	Luxury	Mumbai
2	16559	3-May-22	RT1	17	30.0	56.67	RT1	Standard	Atliq Exotica	Luxury	Mumbai
3	16559	4-May-22	RT1	21	30.0	70.00	RT1	Standard	Atliq Exotica	Luxury	Mumbai
•	rt pandas df.groupb		c_pct"].mean().m	round(2)							F



## 3.when was the occupancy better weedays or weekends?



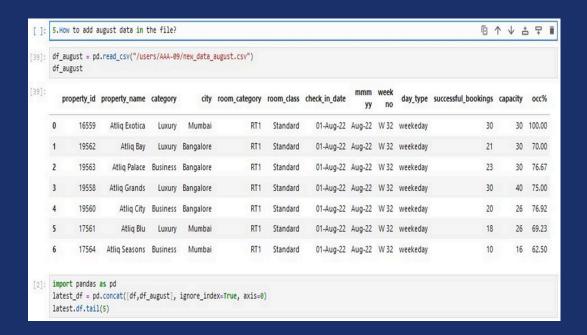


## 4.In the month of june what is the occupancy for different cities?



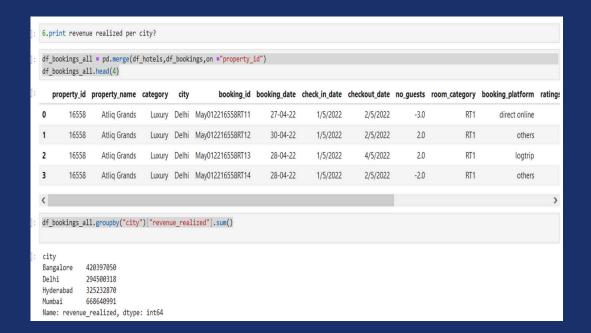


#### 5. How to add august data in the file?





#### 6.print revenue realized per city?





#### 7.print month by revenue?

```
df_bookings_all.groupby("mmm yy")["revenue_realized"].sum()

mmm yy
Jul 22  389940912
Jun 22  377191229
May 22  408375641
Name: revenue_realized, dtype: int64
```



## 8.print revenue realized per hotel type?

	_bookings_al	property_name_x	category_x	city_x	booking_id	booking_date	check_in_date	checkout_date	no_guests	room_category	booking_platform	rat
0	16558	Atliq Grands	Luxury	Delhi	May012216558RT11	27-04-22	1/5/2022	2/5/2022	-3.0	RT1	direct online	
1	16558	Atliq Grands	Luxury	Delhi	May012216558RT12	30-04-22	1/5/2022	2/5/2022	2.0	RT1	others	
2	16558	Atliq Grands	Luxury	Delhi	May012216558RT13	28-04-22	1/5/2022	4/5/2022	2.0	RT1	logtrip	
3	16558	Atliq Grands	Luxury	Delhi	May012216558RT14	28-04-22	1/5/2022	2/5/2022	-2.0	RT1	others	
<												>
df_bookings_all2.groupby("category_y")["revenue_realized"].sum()												
: category_v Business 656019297 Luxury 1052751932 Name: revenue_realized, dtype: int64												



### 9.print average rating per city?

```
9.print average rating per city

df_bookings_all.groupby("city")["ratings_given"].mean().round(2)

city

Bangalore 3.41

Delhi 3.78

Hyderabad 3.66

Mumbai 3.65

Name: ratings_given, dtype: float64
```



# 10.print a pie chart of revenue realized per booking platform?

