

DATA
VISUALIZATION
FOR
ALOFT HOTELS



# KPI DASHBOARD

Presented By Harshit Garg





## **BUSINESS OBJECTIVE**

- Aloft is a company that owns multiple hotel chains across various cities of India
- The Managing director / CEO of Aloft wants to incorporate 'Business and Data Intelligence' to identify and track the source of revenue for Aloft hotels
- Hence, it is decided to develop a KPI Dashboard for Aloft, using May-22 to July-22 data, which can help track its revenue sources and other relevant KPIs across various dimensions
- It'll help the management take strategic business decisions based on the insights generated from the dashboard





- Identify the data sources pertaining to revenue management
- Clean and model the data as per requirement for analysis
- Create a revenue dashboard that measures important KPIs
- Relevant filters need to provided to slice and dice the data
- The dashboard should depict both high level and granular insights

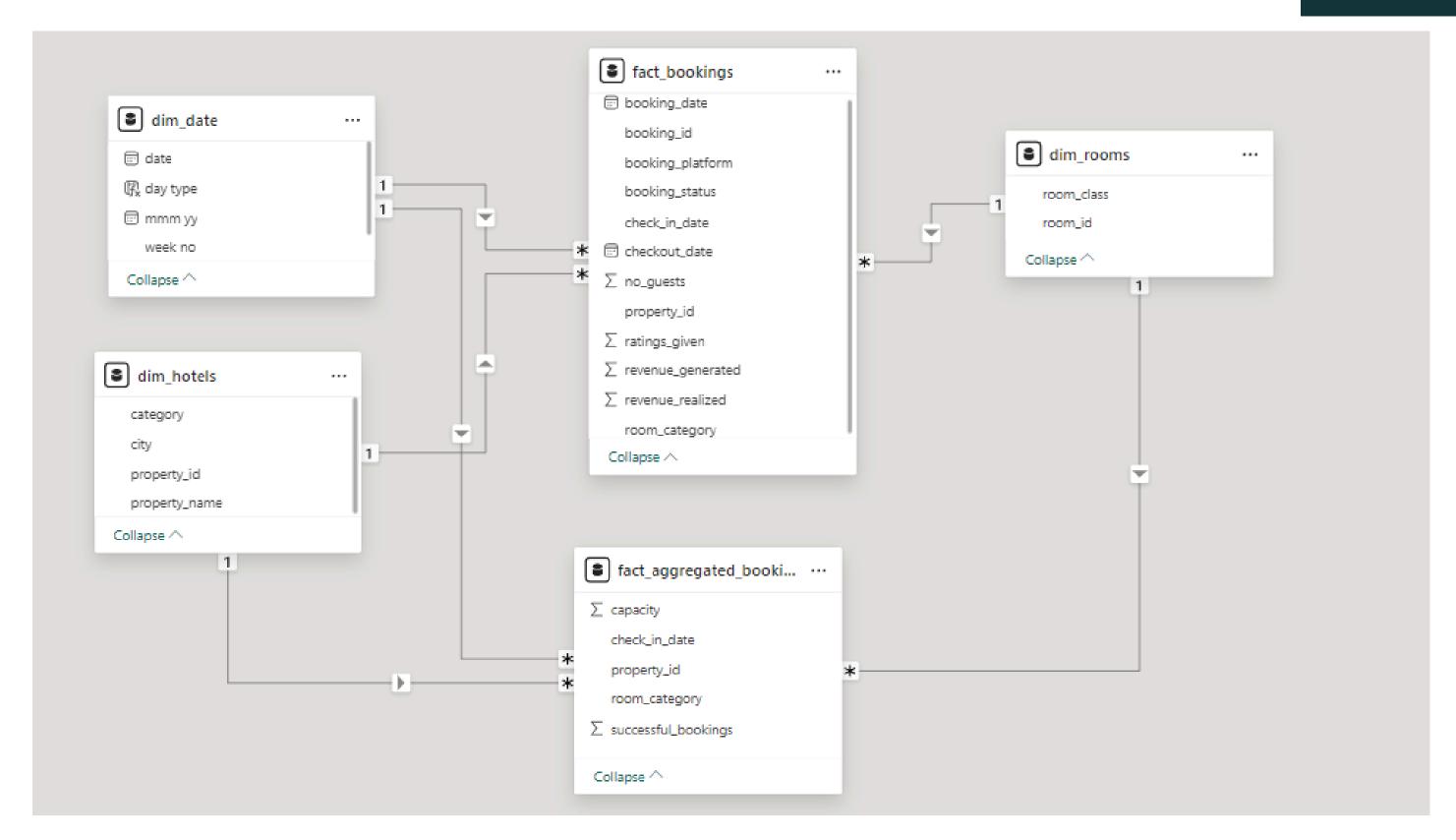




- There are 5 tables provided for tracking revenue, 3 dimension tables (date, hotel, room) and 2 fact tables (bookings, aggregated bookings)
- Power BI was the tool used for creating the visualization/dashboard
- The data was imported, analysed and transformed as per necessity within Power Query
- The relationships between the tables were created within Model View











#### A few measures were created to calculate the KPIs as shown below:

- **Revenue** = Sum of revenue\_realized from Bookings table (in Rs.)
- Total bookings = Count of booking\_id from Bookings table
- Avg rating = Average of ratings from Bookings table
- **Total capacity** = Sum of capacity from Aggregated bookings table
- Total successful bookings = Sum of successful bookings from Aggregated bookings table
- Occupancy rate = Total successful bookings / Total capacity (in %)
- Total cancelled bookings = Count of booking\_id with status='cancelled' from Bookings table
- Cancellation rate = Total cancelled bookings / Total bookings (in %)





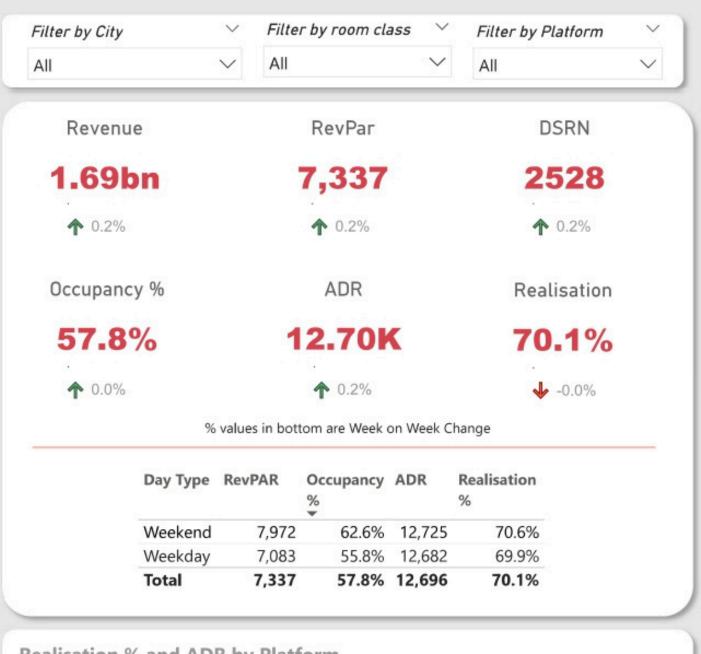
#### A few measures were created to measure the KPIs as shown below:

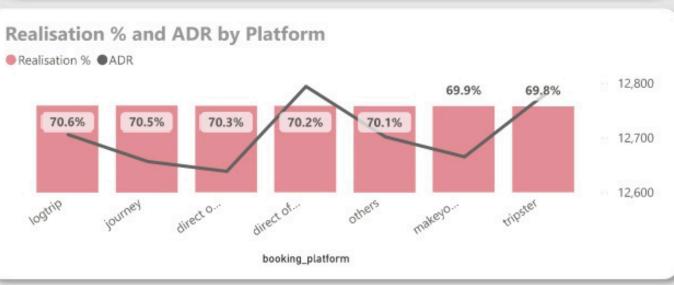
- **RevPAR** Revenue per available room
- **DSRN** Daily sellable room nights
- ADR(Average Daily Rate) It is the measure of the average paid for rooms sold
- **DBRN** Daily Booked Room Nights
- **DURN** Daily Utilized Room Nights
- Revenue WoW change % To get the revenue change percentage week over week.
- Revpar WoW change % To get the RevPar change percentage week over week.
- Realisation % The successful checked out percentage over all bookings happened.



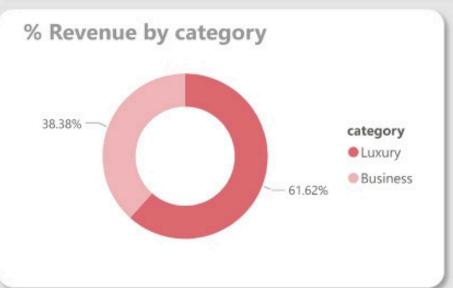
### **DASHBOARD**

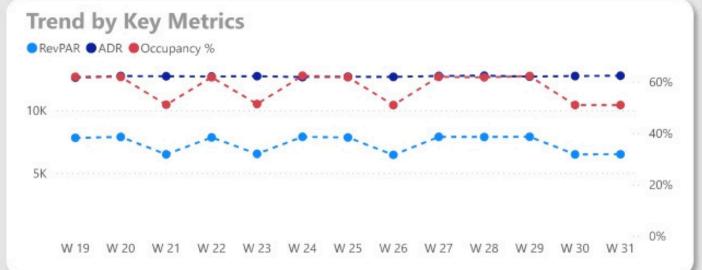






May 22 Jun 22 Jul 22 W 19 W 20 W 21 W 22 W 23 W 24 W 25 W 26 W 27 W 28 W 29 W 30 W 31





property _id	property_na me	city	Revenue	Total Bookings	RevPAR	Occupa ncy %	ADR	DSRN	DBRN	DURN	Realisati on %	Cancell ation %	Average Rating
19558	Atliq Grands	Bangalore	54M	4316	5,527	44.3%	12,468	107	47	33	70.1%	24.5%	2.37
17564	Atliq Seasons	Mumbai	65M	3934	7,397	44.6%	16,597	97	43	31	70.6%	24.8%	2.30
18559	Atliq Exotica	Hyderabad	47M	5192	4,061	44.6%	9,111	128	57	40	70.6%	24.3%	2.33
17562	Atliq Bay	Mumbai	51M	3388	6,803	44.9%	15,167	83	37	26	69.6%	25.4%	2.37
18563	Atliq Palace	Hyderabad	44M	4669	5,014	52.9%	9,480	97	51	36	69.6%	26.0%	3.07
17560	Atliq City	Mumbai	87M	5940	7,763	53.1%	14,629	123	65	45	69.5%	25.1%	3.04
19561	Atliq Blu	Bangalore	<b>7</b> 2M	5669	6,774	53.2%	12,722	117	62	43	69.8%	24.6%	3.08
18558	Atliq Grands	Hyderabad	46M	4420	5,514	53.4%	10,331	91	49	34	69.7%	25.1%	3.06
Total	Adlia Dan	D-II-:	1688M	132939	7,337	57.8%	12,696	2528	1461	1025	70.1%	25 20/	3.62



# FEATURES OF DASHBOARD



The following 5 visuals were provided:

- Revenue by category = Dough nut chart shows the revenue generated across various room category
- **Realization** % = Bar chart shows the realization 5 for different type of Platform
- **Key Metric trends** = Line chart shows the trends of key metrics over weeks
- Average Daily Rate = Line chart shows the variation of ADR across different booking platform
- **KPI table** = A matrix visual showing the various KPIs across cities and hotels in each city



# FEATURES OF DASHBOARD



- A bunch of card visuals were placed in the top left to show the values of important KPIs
- The following filters were provided to slice and dice the data:
  - a. Month
  - b. Week
  - c. City
  - d. Room class
  - e. Booking platform
- The visuals are interactive in nature
- Tooltips pop-up when hovering over a visual for more information about the data point





The following are some important business insights derived from the revenue dashboard:

- Mumbai generates highest revenue and Delhi the least revenue during May to Jul 2022. Company need to focus on increasing the revenue in Delhi.
- The occupancy rate is higher during weekends across all cities, months and booking platforms. Leverage this insight to increase revenue generated during weekends.
- 70% of the bookings are checked out across all cities and booking platforms which means 70% of bookings generate revenue for Aloft hotels. Identify and analyze the reasons for cancellations and try to reduce them.





The following are some important business insights derived from the revenue dashboard:

- Avg 60% of rooms are Luxury and 40% are business category while revpar of business category is more than luxury. Focus on business category to increase the overall revenue of company
- Occupancy rate is highest at Delhi with 60+ % for all months though generates least revenue compared to other cities. Identify the reason for higher occupancy and use that to drive the revenue growth.

