**Hospitality domain**

I have developed a comprehensive dashboard for hotel data analysis using power BI, utilising power query for data transformation and DAX(data analysis expression) for key metrics creation.Used custom visuals like line chart ,donut chart ,column chart to highlight occupancy and revenue trends.I have done this project by taking a problem statement from the internet.The problem statement is that AtliQ Grands owns multiple five-star hotels across India. They have been in the hospitality industry for the past 20 years. Due to strategic moves from other competitors and ineffective decision-making in management, AtliQ Grands have lost their market share and revenue in the luxury/business hotels category. Hence the managing director of AtliQ Grands wanted to incorporate “Business and Data Intelligence” to regain their market share and revenue.

data source -> data transformation -> dax -> dashboards

dataset includes data about hotels which represents the category (luxury,business) and city (delhi,Mumbai,Hyderabad,Bangalore) ,room type ie standard elite premium presidential and about hotel bookings(ratings given ,no of rooms booked etc)  
connected all the files. Transformation is done in power query. power query is a place where data transformation & data cleaning is done.Model view represents relationship between tables.

Managing relationship b/w the dim\_date & fact\_bookings by the date column.room\_id & room\_category.  
**DAX-data analysis Expressions:**

**Add a column in dim\_date named weeknumber**

**Add another column in dim\_date named weekday   
add another column in dim\_date named day\_type either weekday or weekend.**

Creating another table named key\_measures .building metrics using dax.created various measures nearly 26 columns .(revenue,total capacity,total bookings,displaying certain measures that has been created .To make easier to read converting the revenue to millions and removing decimals.initially occupancy %,realisation %,cancellation % are in decimals then it was changed to percentage values by changing the format.

Removing decimals from ADR,DBRN,DURN,DSRN.  
used slicer visual for filtering it by city ,room type, date and week number.

In another page,line chart is used.  
x axis :week no  
y axis:revenue

Legend :category  
able to observe the breakdown between the business and luxury.

Donut chart:

Legend:category  
values:occupancy %

It is used to indicate the percentage used in luxury and business.

Line chart : trends by key matrix

X axixs : month and week number  
y axixs: occupancy %,revpar

Line stacked column chart: