

Information regarding the datasets

CSV1- dim_data:

- Date: represents the dates present in May, June and July
- mmm yy: represents the date in the format of mmm yy
- Week no: represents the week number for that date (this was later calculated)
DAX formula: WEEKNUM(dim_date[date])
- Day_type: represents whether the given day is a weekday or a weekend (this was later calculated). We have considered that Friday and Saturday are weekends, and Sunday – Thursday are weekdays.
DAX Formula:

```
day type =  
var wkd =  
    WEEKDAY(dim_date[date],1)  
return  
    IF(  
        wkd>5, "weekend", "weekday")
```

CSV2- dim_hotels:

- Property_id: represents the unique ID for each hotel
- Property_name: represents the name of each hotel
- Category: represents the class [Luxury, Business] a particular hotel belongs to
- City: represents the city in which the hotel is located

CSV3- dim_rooms:

- Room_id: represents the type of room
- Room_class: represents the class [Standard, Elite, Premium, Presidential] to which a particular room belongs to

CSV4- fact_aggregated_bookings:

- Property_id: represents the unique ID for each hotel
- Check_in_date: represents the check in dates
- Room_category: represents the type of room
- Successful_bookings: represents all the successful room bookings that happen for a particular room type on a particular date in that hotel
- Capacity: represents the maximum counts of rooms available for a particular room type in that hotel on that particular date

CSV5- fact_bookings:

- Booking_id: represents the unique booking ID for each customer
- Property_id: represents the unique ID for each hotel
- Booking_date: represents the date on which a customer booked a room
- Check_in_date: represents the check in dates
- Check_out_date: represents the check out dates
- No_guests: represents the number of guests who stayed in a particular room in that hotel
- Room_category: represents the type of room
- Booking_platform: represents the platform [direct online, direct offline, etc.] used by the customers to book their rooms
- Ratings_given: represents the ratings given by the customers
- Booking_status: represents whether the customer utilized the booked room [checked out], if the room was cancelled [Cancelled], or if the room was neither utilized nor cancelled [no show]
- Revenue_generated: represents the amount of money generated by the hotel
- Revenue_realized: represents the final amount of money that the hotel has earned
 - Cancelled: 60% of the cost is refunded to the customer. Hotels earn only 40%
 - Checked_out/No show: hotels earn 100%