

DAX Formulas Learned & Used

- Hospitality Domain

Key Measures:

1. Average Rating = `AVERAGE`(fact_bookings[rating_given])

2. Total Booking = `COUNT`(fact_bookings[booking_id])

3. Total Cancelled Booking =

`CALCULATE`([Total Booking],fact_bookings[booking_status]="Cancelled")

4. Total CheckedOut Booking =

`CALCULATE`([Total Booking],fact_bookings[booking_status]="Checked Out")

5. Total NoShow Booking =

`CALCULATE`([Total Booking],fact_bookings[booking_status]="No Show")

6. Total Successful Booking = `SUM`(fact_aggregated_bookings[successful_booking])

7. Cancelled Rate % = `DIVIDE`([Total Cancelled Booking],[Total Booking],0)

8. NoShow Booking % = `DIVIDE`([Total NoShow Booking],[Total Booking],0)

9. Realisation % = `DIVIDE`([Total CheckedOut Booking],[Total Booking],0)

10. Booking by City % = `DIVIDE`([Total Booking],

`CALCULATE`([Total Booking],`ALL`(dim_hotels[city])),0)

11. Booking by Platform % = `DIVIDE`([Total Booking],

`CALCULATE`([Total

Booking],`ALL`(fact_bookings[booking_platform])),0)

12. Booking by Property % = `DIVIDE`([Total Booking],

`CALCULATE`([Total Booking],`ALL`(dim_hotels[property_name])),0)

13. Booking by Room Category % = `DIVIDE`([Total Booking],

`CALCULATE`([Total Booking],`ALL`(dim_hotels[category])),0)

- 14.Booking by Room Class % = **DIVIDE**([Total Booking],
CALCULATE([Total Booking],**ALL**(dim_rooms[room_class])),0)
- 15.Booking by Various Measure % = **DIVIDE**([Total Booking],
CALCULATE([Total Booking],
ALL(dim_hotels[city]),
ALL(dim_hotels[category]),
ALL(dim_hotels[property_name]),
ALL(dim_rooms[room_class]),
ALL(fact_bookings[booking_platform])),0)
- 16.Daily Booked Room Nights = **DIVIDE**([Total Booking],[No of Days],0)
- 17.Daily Sellable Room Nights = **DIVIDE**([Total Capacity],[No of Days])
- 18.Daily Utilized Room Nights = **DIVIDE**([Total CheckedOut Booking],[No of Days],0)
- 19.No of Days = **COUNT**(dim_dates[date])
- 20.Occupancy % = **DIVIDE**([Total Successful Booking],[Total Capacity],0)
- 21.Total Capacity = **SUM**(fact_aggregated_bookings[capacity])
- 22.Revenue Chg % = **DIVIDE**([Revenue Earn \$],[Revenue Earn PM \$],0)
- 23.Average Daily Rate \$ = **DIVIDE**([Revenue Earn \$],[Total Booking],0)
- 24.L\P Due Cancelled Booking = [Revenue Generated \$] - [Revenue Earn \$]
- 25.Revenue Earn \$ = **SUM**(fact_bookings[revenue_realized])
- 26.Revenue Generated \$ = **SUM**(fact_bookings[revenue_generated])
- 27.Revenue Per Available Room \$ = **DIVIDE**([Revenue Earn \$],[Total Capacity],0)

28.ADR WoW change % =

```
Var selv = IF(HASONEFILTER(dim_dates[week_no]),  
              SELECTEDVALUE(dim_dates[week_no]),MAX(dim_dates[week_no]  
              )))  
  
var revcw = CALCULATE([Average Daily Rate $],dim_dates[week_no]= selv)  
  
var revpw = CALCULATE([Average Daily Rate $],  
                      FILTER(ALL(dim_dates),dim_dates[week_no]= selv-1))  
  
Return DIVIDE(revcw,revpw,0)-1
```

29.DSRN WoW change % =

```
Var selv = IF(HASONEFILTER(dim_dates[week_no]),  
              SELECTEDVALUE(dim_dates[week_no]),MAX(dim_dates[week_no]))  
  
var revcw = CALCULATE([Daily Sellable Room Nights],dim_dates[week_no]= selv)  
  
var revpw = CALCULATE([Daily Sellable Room Nights],  
                      FILTER(ALL(dim_dates),dim_dates[week_no]= selv-1))  
  
Return DIVIDE(revcw,revpw,0)-1
```

30.Occupancy WoW change % =

```
Var selv = IF(HASONEFILTER(dim_dates[week_no]),  
              SELECTEDVALUE(dim_dates[week_no]),MAX(dim_dates[week_no]))  
  
var revcw = CALCULATE([Occupancy %],dim_dates[week_no]= selv)  
  
var revpw = CALCULATE([Occupancy %],  
                      FILTER(ALL(dim_dates),dim_dates[week_no]= selv-1))  
  
Return DIVIDE(revcw,revpw,0)-1
```

31.Realisation WoW change % =

```
Var selv = IF(HASONEFILTER(dim_dates[week_no]),  
              SELECTEDVALUE(dim_dates[week_no]),MAX(dim_dates[week_no]))  
  
var revcw = CALCULATE([Realisation %],dim_dates[week_no]= selv)  
  
var revpw = CALCULATE([Realisation %],  
                      FILTER(ALL(dim_dates),dim_dates[week_no]= selv-1))  
  
Return DIVIDE(revcw,revpw,0)-1
```

32.Revenue WoW change % =

```
Var selv = IF(HASONEFILTER(dim_dates[week_no]),  
              SELECTEDVALUE(dim_dates[week_no]),MAX(dim_dates[week_no]))  
  
var revcw = CALCULATE([Revenue Earn $],dim_dates[week_no]= selv)  
  
var revpw = CALCULATE([Revenue Earn $],  
                      FILTER(ALL(dim_dates),dim_dates[week_no]= selv-1))  
  
Return DIVIDE(revcw,revpw,0)-1
```

Key Measures Previous Month (PM):

1. Average Rating PM = `CALCULATE([Average Rating],

DATEADD(dim_dates[date],-1,MONTH))`
2. Total Booking PM = `CALCULATE([Total Booking],DATEADD(dim_dates[date],-1,MONTH))`
3. Total Cancelled Booking PM = `CALCULATE([Total Cancelled Booking],

DATEADD(dim_dates[date],-1,MONTH))`
4. Total CheckOut Booking PM = `CALCULATE([Total CheckedOut Booking],

DATEADD(dim_dates[date],-1,MONTH))`
5. Total NoShow Booking PM = `CALCULATE([Total NoShow Booking],

DATEADD(dim_dates[date],-1,MONTH))`
6. Total Successful Booking PM = `CALCULATE([Total Successful Booking],

DATEADD(dim_dates[date],-1,MONTH))`
7. Cancelled Rate PM % = `CALCULATE([Cancelled Rate %],

DATEADD(dim_dates[date],-1,MONTH))`
8. NoShow Booking PM % = `CALCULATE([NoShow Booking %],

DATEADD(dim_dates[date],-1,MONTH))`
9. Realisation PM % = `CALCULATE([Realisation %],

DATEADD(dim_dates[date],-1,MONTH))`
10. Occupancy PM % = `CALCULATE([Occupancy %],DATEADD(dim_dates[date],-1,MONTH))`
11. Average Daily Rate PM \$ = `CALCULATE([Average Daily Rate $],

DATEADD(dim_dates[date],-1,MONTH))`
12. L\P Due Cancelled Booking PM = `CALCULATE([L\P Due Cancelled Booking] ,

DATEADD(dim_dates[date],-1,MONTH))`

13.Revenue Earn PM \$ = **CALCULATE**([Revenue Earn \$],

DATEADD(dim_dates[date],-1,MONTH))

14.Revenue Generated PM \$ = **CALCULATE**([Revenue Generated \$],

DATEADD(dim_dates[date],-1,MONTH))

15.Revenue Per Available Room PM \$ = **CALCULATE**([Revenue Per Available Room \$],

DATEADD(dim_dates[date],-1,MONTH))

Key Measures Filters:

1.CR % = SWITCH(TRUE(),

ISBLANK(SELECTEDVALUE(fact_bookings[booking_status])),[Cancelled Rate %],

SELECTEDVALUE(fact_bookings[booking_status])="Cancelled",

[Cancelled Rate %],

SELECTEDVALUE(fact_bookings[booking_status])="No Show", "NA",

SELECTEDVALUE(fact_bookings[booking_status])="Checked out", "NA")

2.Filter 1 City = " " & SELECTEDVALUE(dim_hotels[city])

3.Filter 2 Property Name = SELECTEDVALUE(dim_hotels[property_name])

4.Filter 3 Month = SELECTEDVALUE(dim_dates[month_year])

5.Filter 4 week_no = SELECTEDVALUE(dim_dates[week_type])

6.Filter 5 week type = SELECTEDVALUE(dim_dates[week_type])

7.Filter 6 Booking Platform = SELECTEDVALUE(fact_bookings[booking_platform])

8.Filter 7 Booking Status = SELECTEDVALUE(fact_bookings[booking_status])

9.Filter Select = "For " &

[Filter 1 City] & " " &

[Filter 2 Property Name] & " " &

[Filter 3 Month] & " " &

[Filter 4 week_no] & " " &

[Filter 5 week type] & " " &

[Filter 6 Booking Platform] & " " &

[Filter 7 Booking Status] & " " &

" Booking"

10.Max Rating = 5

11.Min Rating = 0