**HOTEL BOOKING ANALYZE & VISUALIZE DATA**

Build a visual data story or dashboard using Power Bi to present to your stakeholders.

1) Is our hotel revenue growing by year?

-- We have two hotel types so it would be good to segment revenue by hotel type.

2) Should we increase our parking lot size?

-- We want to understand if there is a trend is guest with personals cars.

3)What trends can we see in the data?

-- Focus on average daily rate and guests to explore seasonality

**Data Analysis Project Pipeline**

1. Build a Database

2. Develop the SQL Query

3. Connect Power BI to the

4. Visualize

5. Summarize Findings

**HOTEL BOOKING SQL QUERIES**

1. **Making a temporary table with 3 table together as hotels.**

with hotels as (

select \* from dbo.['2018$']

union

select \* from dbo.['2019$']

union

select \* from dbo.['2020$'])

select \* from hotels

1. **Calculating profit by year,hotel (round 2 dcml)**

with hotels as (

select \* from dbo.['2018$']

union

select \* from dbo.['2019$']

union

select \* from dbo.['2020$'])

select

arrival\_date\_year,hotel

round(sum((stays\_in\_week\_nights+stays\_in\_weekend\_nights)\*adr)\*2) as revenue

from hotels

group by arrival\_date\_year,hotel

1. **Join all tables with temporary table.**

with hotels as (

select \* from dbo.['2018$']

union

select \* from dbo.['2019$']

union

select \* from dbo.['2020$'])

select \* from hotels

left join dbo.market\_segment$

on hotels.market\_segment = dbo.market\_segment$.market\_segment

left join dbo.meal\_cost$

on hotels.meal = dbo.meal\_cost$.meal

**HOTEL BOOKING POWER BI**

1. **Add new custom column : Revenue**

**= ([stays\_in\_week\_nights]+[stays\_in\_weekend\_nights])\*([adr]\*[Discount]),turn it decimal No, close & apply**