**Hotel Revenue Project**

**Using SQL (SSMS) & Power BI 📊**

The purpose of this word document, is to write down the changes made in the Power Bi file, that is used for this project.

I followed up the step by step from the video tutorial from “Absent Data”, a video uploaded on YouTube.

Source: <https://youtu.be/S2zBHmkRbhY?si=16cj580eiBWLsj2K>

The data utilized came from an Excel spreadsheet. There we can visualize the context of the data, which talks about a Hotel Business.

In short what I did was building a database in SQL Server, do some EDA, and then make a report view in Power Bi what the organization requested.

For visualizing this report, you must have “???” Power Bi Desktop Installed in your Desktop.

Also, I did this project in Windows, so, I’ll find out how to guide you to see my visuals if you are a Mac user.

In this document, I document all the steps done in the .pbix document.

There is a section in this document, in which I dedicate a whole page to every report view. Every title of the page is the name of my page in my Power Bi report view. It’s detailed the changes I made in every page and the visualizations created and its purposes.

List of contents

1. Data transformation
2. Calculated measures
3. Report view

Data Transformation:

* Create a new column named “Revenue”
  + Change column into a “decimal number” type.

A screenshot of a computer

Description automatically generated

Calculated measures:

1. Total Nights



1. Parking percentage



# Report View

In this page, I explain my graphs and its purposes, in my report page called “Report View”.

The sections are devided by the tipe of visualization I added in the report.

Right down the type of graph, I especify by its name, how I created them and its purpose.

* Cards
  + Sum of Revenue: this card is the sum of revenue.
  + Average of adr: this card is the average revenue.
  + Total Nights: for this card, I first created a calculated measure, and then I putted It in the card.
  + Average discount: this card is the average of revenue.
  + Car Spaces:
* Line charts
  + Revenue by reservation\_status\_date:

1. I putted “reservation\_status\_date” on the Y axis, “revenue” on the X axis and “hotel” as a legend.
2. I filtered by year by going in the Filter panel, in the “Filter on this page” section. Then I switched by “Advance Filtering”, to show up only the years recordered in the database.
   * Line chart for *Sum of Revenue*: see the trend of -*name after “for”-.*
   * Line chart for *Average of adr*: (same as above)
   * Line chart for *Total Nights*: (same as above)
   * Line chart for *Average discount*: (same as above)
   * Line chart for *Car Spaces*: (same as above)

* Slicers
  + Country: you can filter by country with this slicer.
  + Hotel: you can filter by hotel with this slicer.
  + Date:
* Donnut chart: added “hotel” as Legend and “Sum of Revenue” as Values.
* Matrix: added “Year” of *reservation\_status\_date* and “Hotel” in Rows, and added “Revenue”, “required\_car\_\_parking\_spaces” and “Parking Percentage” in Values.

I also costumed the page’s size. Width = 1280 & Height = 920.