Hotel data analysis

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Goal

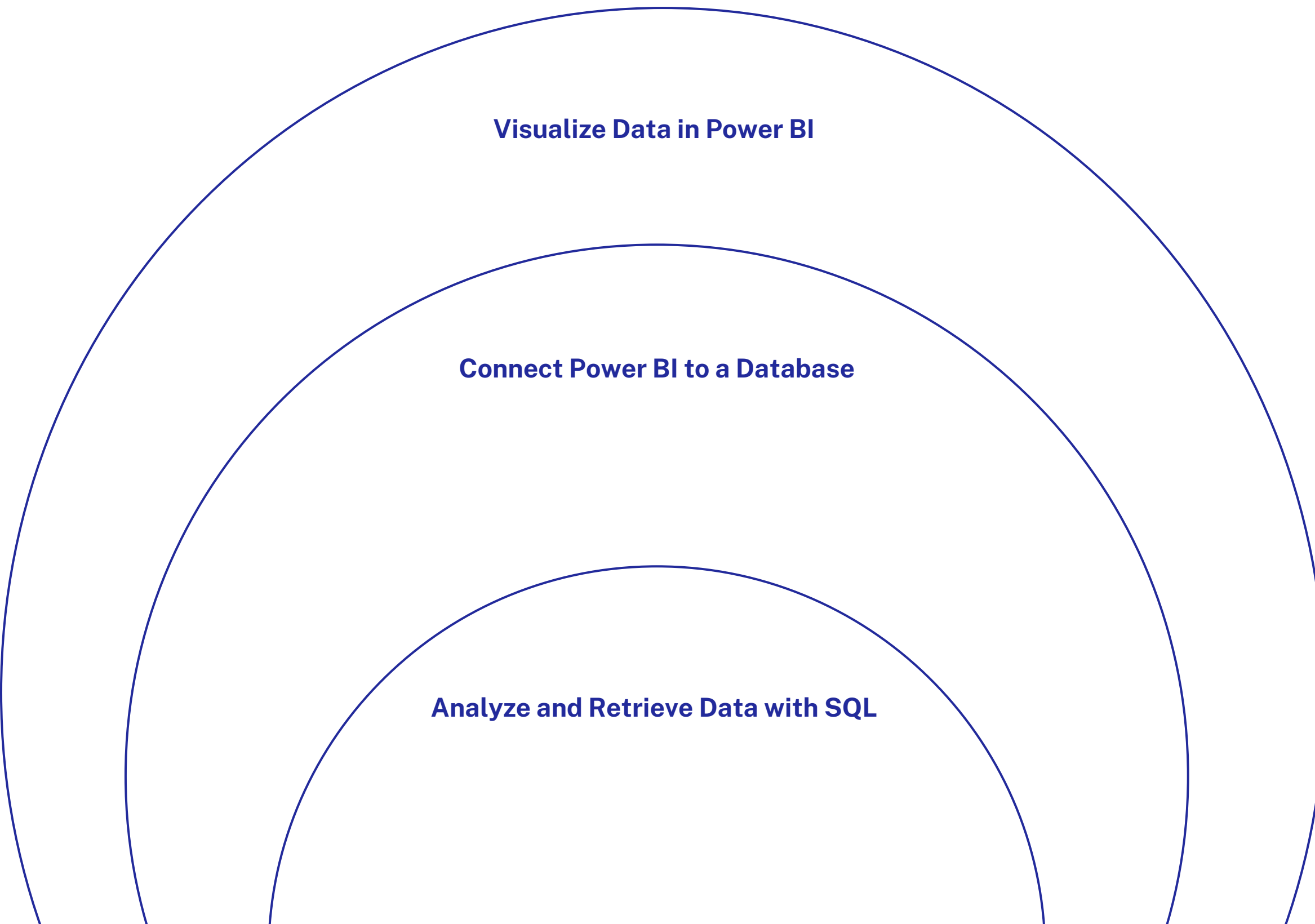Develop a Database to Analyze and Visulaize a Hotel Booking data

build a visual data story or dashboard

Is our hotel revenue growing by year ?

Should we increase our parking lot size?

What trends we can see in the data?

How to build dashboard and telling story?

Visualize Data in Power BI

Connect Power BI to a Database

Analyze and Retrieve Data with SQL

Analyze and Retrieve Data with SQL

this is step one whitch i connect to the data sheet using **"SSMS" and made some sql statement like SELECT,JOIN clause**

Connect Power BI to a database

I loaded the data to Power Bi ,made some data transformation and using **DAX**

Visualize Data in Power BI

This is the last step in the analysis process, where I visualize the data to make it easier for the stakeholders to **understand the data and make decisions.**

Modeling   View   Optimize   Help

Excel workbook | OneLake data hub | SQL Server | Enter data | Dataverse | Recent sources | Transform data | Refresh | New visual | Text box | More visuals | New measure | Quick measure | Sensitivity | Publish

Data | Queries | Insert | Calculations | Sensitivity | Share

Hotel dashboard

$10.23M
Sum of Revenue

$104.44
Average of adr

367.94K
Total Nights

25.80%
Average of Discount

Sum of Revenue by Year, Quarter, Month and Day

Sum of Revenue (y-axis: $0K–$40K), Year (x-axis: يناير 2018, يوليو 2018, يناير 2019, يوليو 2019, يناير 2020, يوليو 2020)

country
- ☐ ABW
- ☐ AGO
- ☐ AIA
- ☐ ALB
- ☐ AND
- ☐ ARE
- ☐ ARG
- ☐ ARM
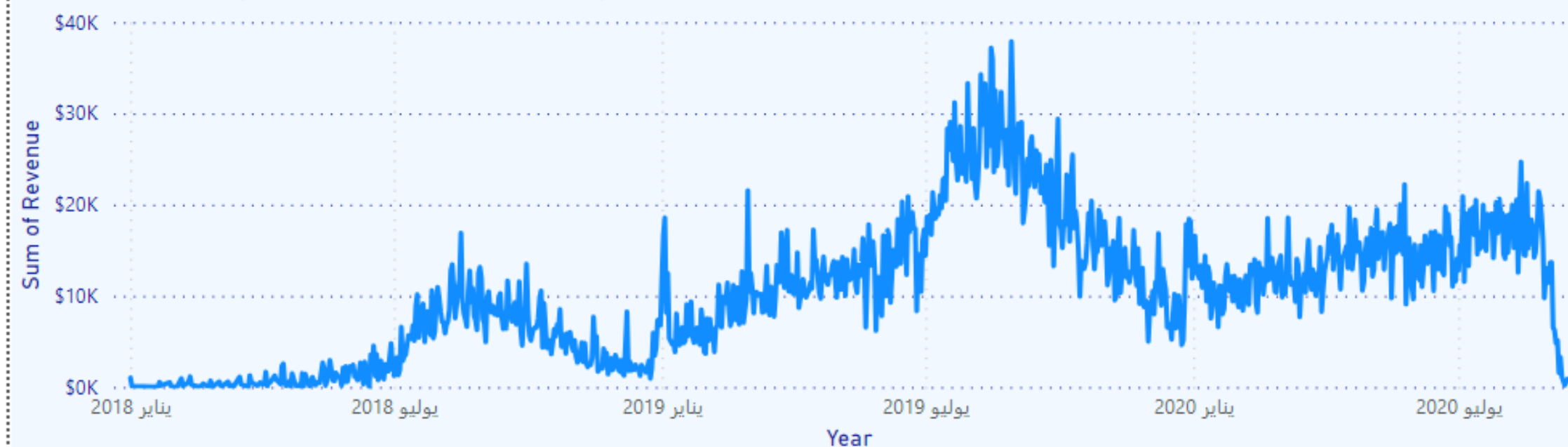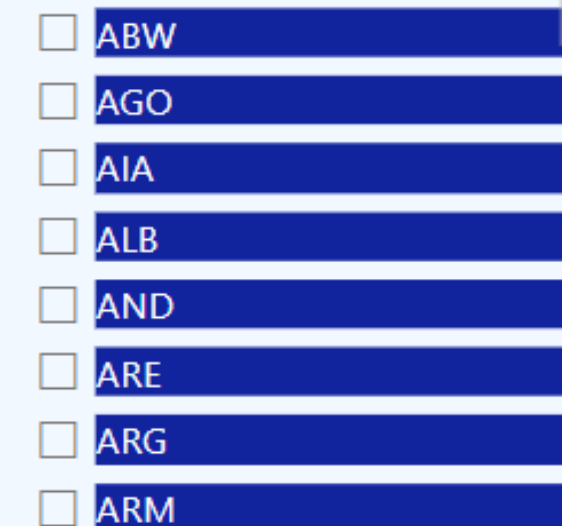
Year	Sum of Revenue	Parking Percentage
2020	$3,512,222.125499912	2.05%
2018	$1,228,662.336500015	2.49%
2019	$5,490,161.455500021	2.50%
Total	$10,231,045.91749995	2.36%

reservation_status_date

01/01/2018...	02/01/2018...	18/01/2018...
20/01/2018...	21/01/2018...	22/01/2018...
28/01/2018...	29/01/2018...	30/01/2018...

Sum of Revenue by hotel

$4.75M (46.3...)

$5.49M (53.62%)

hotel
- ● City Hotel
- ● Resort Hotel