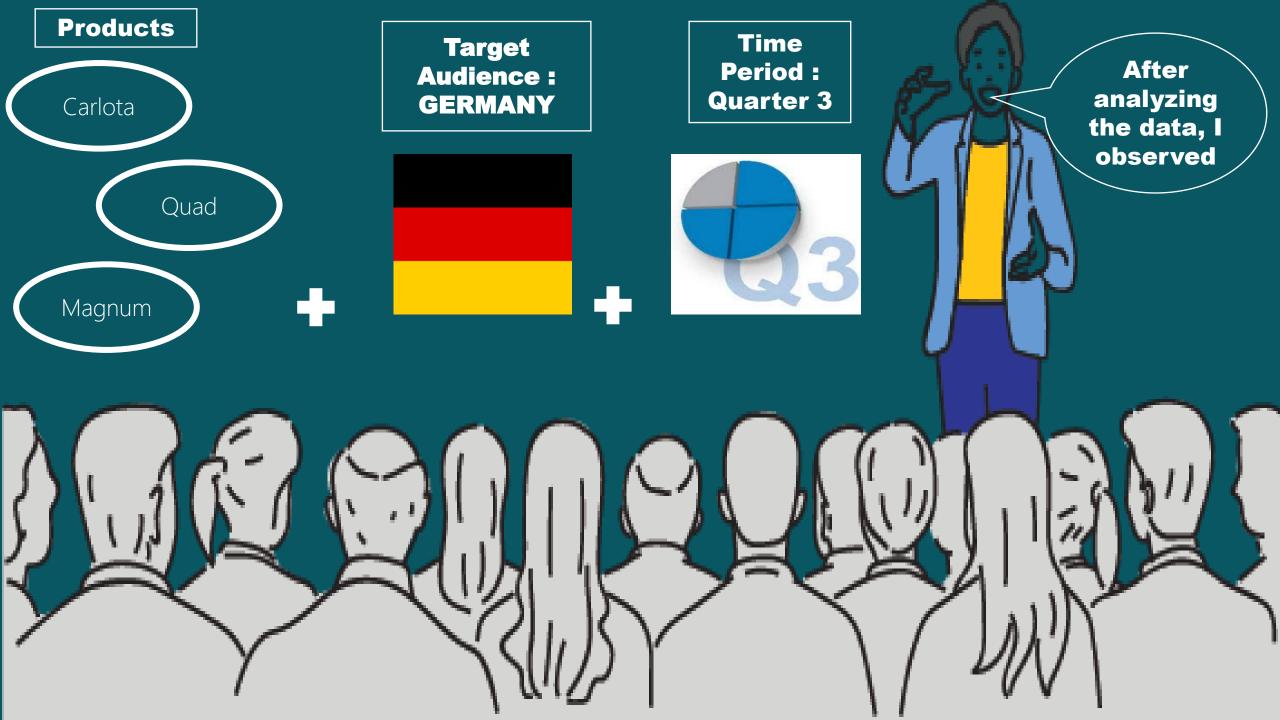
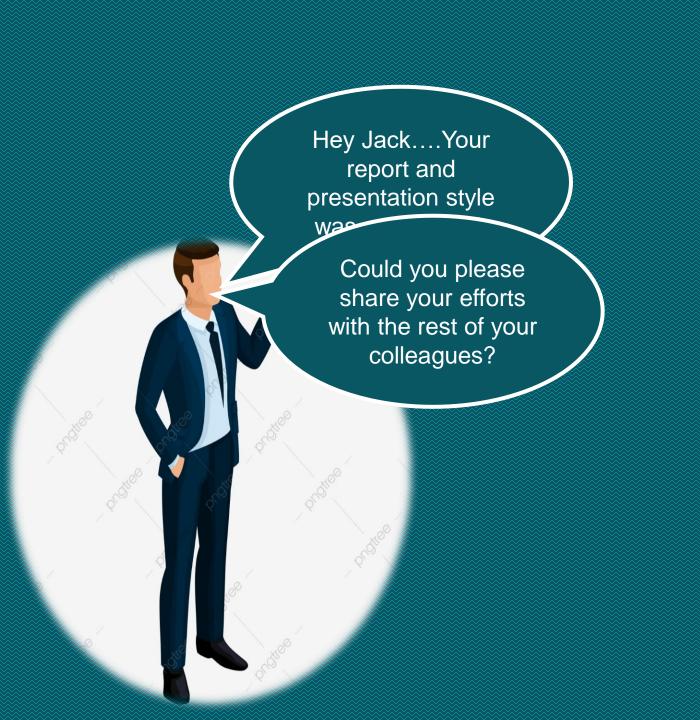




SALES ANALYSIS PROJECT

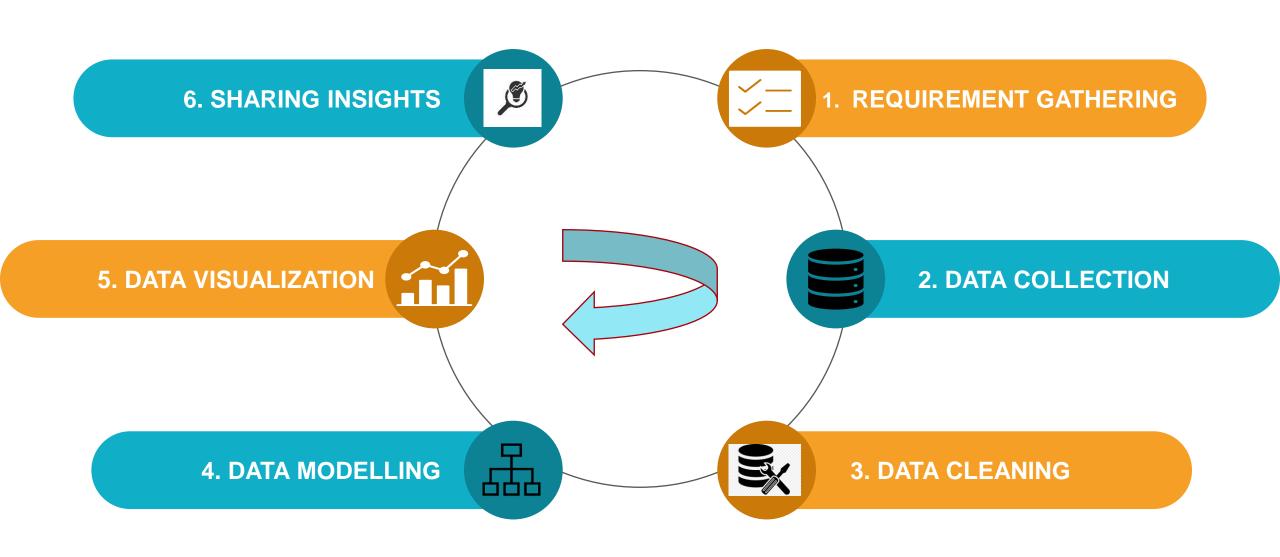


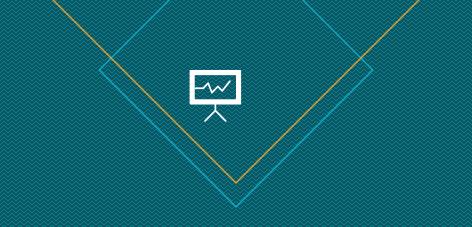






DEVELOPMENT STEPS





REQUIREMENT GATHERING

Assemble a sales report with different visuals to best show the sales insights in one-page dashboard.

Do the respective transformations to the Sales fact table in order to split the "location" column into "Country" and "City".

Create a mechanism to load all the files from the sales folder in a single Sales fact table.

Create the Data Model connecting all tables and using the Calendar table.

Create unique key (GeoKey) in Sales and Geography table.

Calculate **Total Revenue** in Sales table.

Calculate a measure for AVG sales per day.

Calculate **Total Cost, Gross Profit, Gross profit MoM growth Change%** in the Sales table.

Breakdown analysis by **Product (drop or increase)**



DATA COLLECTION

Imported data from Excel and CSV files provided by the client and loaded it into Microsoft Power BI.



Files:

Categories.xlsx
Geography.xlsx
SalesRep.xlsx
SubCategories.xlsx



Sales2014.csv Sales2015.csv Sales2016.csv Sales2017.csv Product.csv











DATA CLEANING

REMOVED DUPLICATES



ProductID 💌	Sub Category Key	Color •	ProductName 💌	RetailPrice 🔻	StandardCost 🔻
1	3	Red	Alder	23.95	7.55
2	2	Blue	Linder	23.95	7.55
3	2	Green	Magnum	23.95	7.55
4	1	Red	Quad	43.95	13.75
5	1	Blue	Black Monk	43.95	13.75
6	4	Green	Quad	43.95	13.75
7	1	Red	Bing	26.95	8.25
8	3	Blue	VanHelen	26.95	8.25
9	1	Green	Magnum	26.95	8.25
10	1	Florescent Pink	Carlota	29.95	9.15
11	4	Florescent Blue	Carlota	29.95	9.15
_ 7	1	Red	Bing	26.95	8.25
10	1	Florescent Pink	Carlota	29.95	9.15

ProductID 🔻	Sub Category Key	Color	ProductName *	RetailPrice 🔻	StandardCost 💌
1	3	Red	Alder	23.95	7.55
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9	1	Green	Magnum	26.95	8.25
10	1	Florescent Pink	Carlota	29.95	9.15
11	4	Florescent Blue	Carlota	29.95	9.15

CONVERTED THE FIRST ROW INTO THE HEADER AND CORRECTED COLUMN VALUES.



Column1	-	Column2 -		
SalesRepID		Sales Rep Name		
ID - 6		Jan Novotny		
ID - 7		John White		
ID - 5		Ellen Woody		
ID - 3		Mark Spancer		
ID - 1		Ellie Gill		
ID - 2		Bill Muray		
ID - 4		El Bob		

SalesRepID 💌	Sales Rep Name		
6	Jan Novotny		
7	John White		
5	Ellen Woody		
3	Mark Spancer		
1	Ellie Gill		
2	Bill Muray		
4	El Bob		

ADDED A NEW COLUMN "GeoKey"



Column1 🔻	Column2 💌	Column3 🔻		
Country	Town	Wikipedia		
Czech republic	Prague	https://en.wikipedia.org/wiki/Prague		
Denmark	Copenhagen	https://en.wikipedia.org/wiki/Copenhagen		
Germany	Frankfurt	https://en.wikipedia.org/wiki/Frankfurt		
Germany	Berlin	https://en.wikipedia.org/wiki/Berlin		
Germany	Dresden	https://en.wikipedia.org/wiki/Dresden		
Czech republic	Brno	https://en.wikipedia.org/wiki/Brno		
Czech republic	Ostrava	https://en.wikipedia.org/wiki/Ostrava		

GeoKey 💌	Country -	City •	Wikipedia	
1	Czech republic	Prague	https://en.wikipedia.org/wiki/Prague	
2	Denmark	Copenhagen	https://en.wikipedia.org/wiki/Copenhagen	
3	Germany	Frankfurt	https://en.wikipedia.org/wiki/Frankfurt	
4	Germany	Berlin	https://en.wikipedia.org/wiki/Berlin	
5	Germany	Dresden	https://en.wikipedia.org/wiki/Dresden	
6	Czech republic	Brno	https://en.wikipedia.org/wiki/Brno	
7	Czech republic	Ostrava	https://en.wikipedia.org/wiki/Ostrava	

MERGED ALL THE EXCEL FILES INTO A SINGLE TABLE.

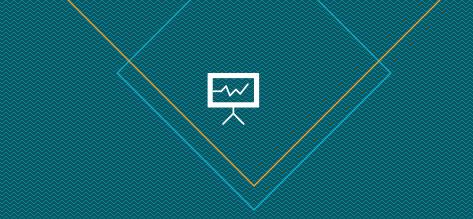


- > III Categories
- > III Geography
- > III Product
- > III Sales 2014
- > III sales 2015
- > III sales 2016
- > III sales 2017
- > III Sales rep
- > III SubCategory

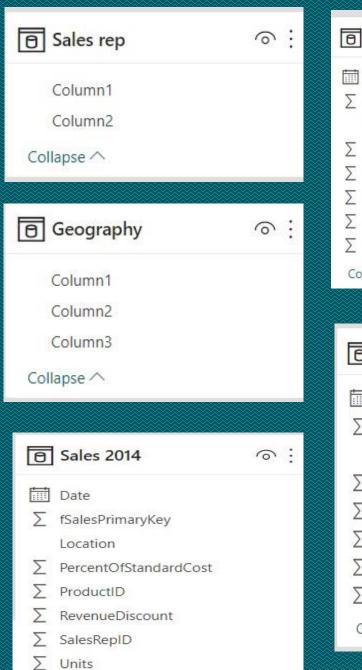
- > III Categories
- > **iii** DateMaster
- > III Geography
- > III Product
- > III Sales
- > III SalesRep
- > III SubCategory



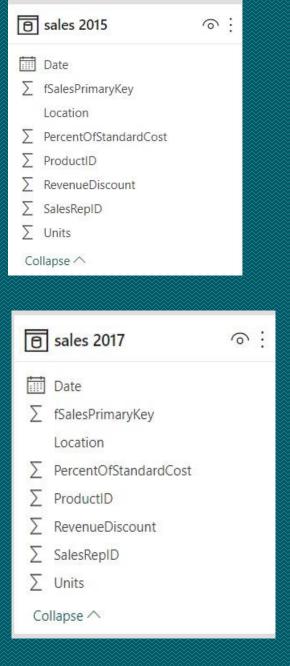
DATA MODELLING



FROM THIS...



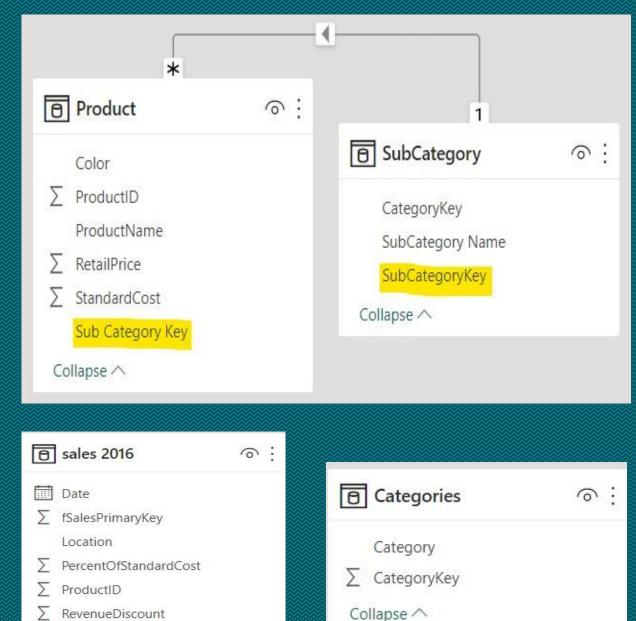
Collapse ^

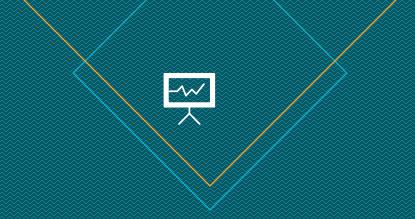


∑ SalesRepID

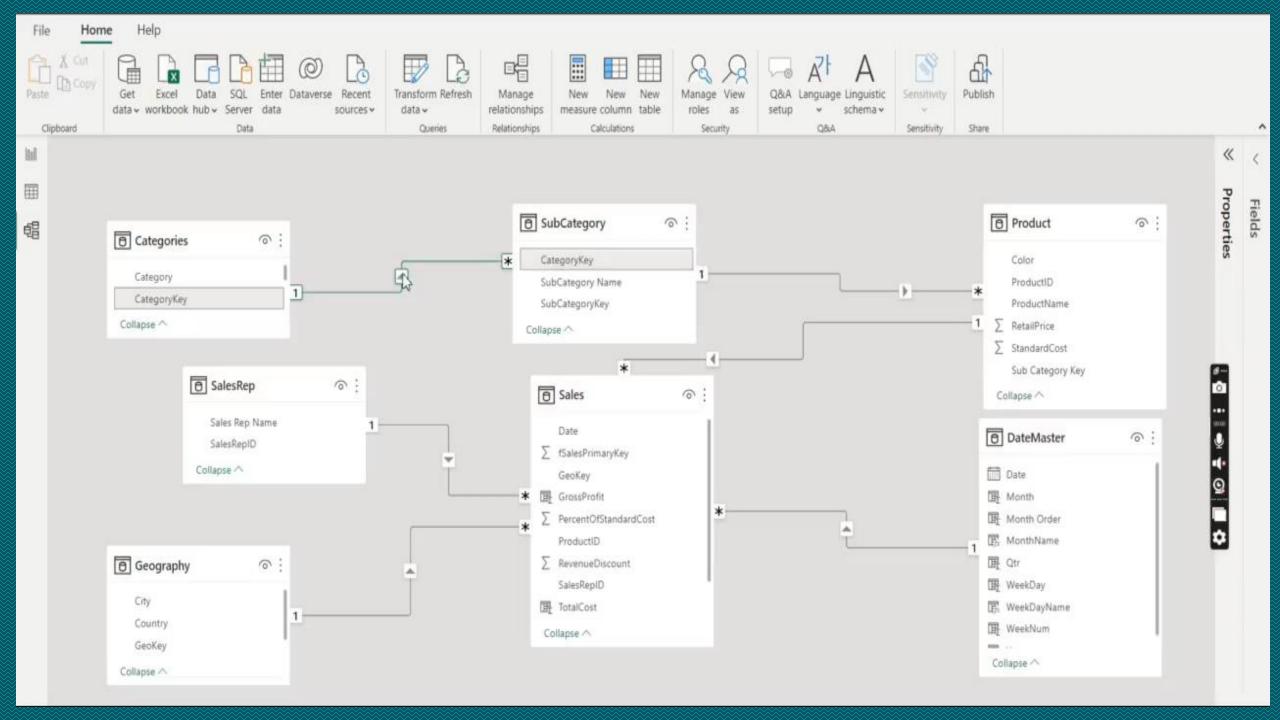
∑ Units

Collapse ^





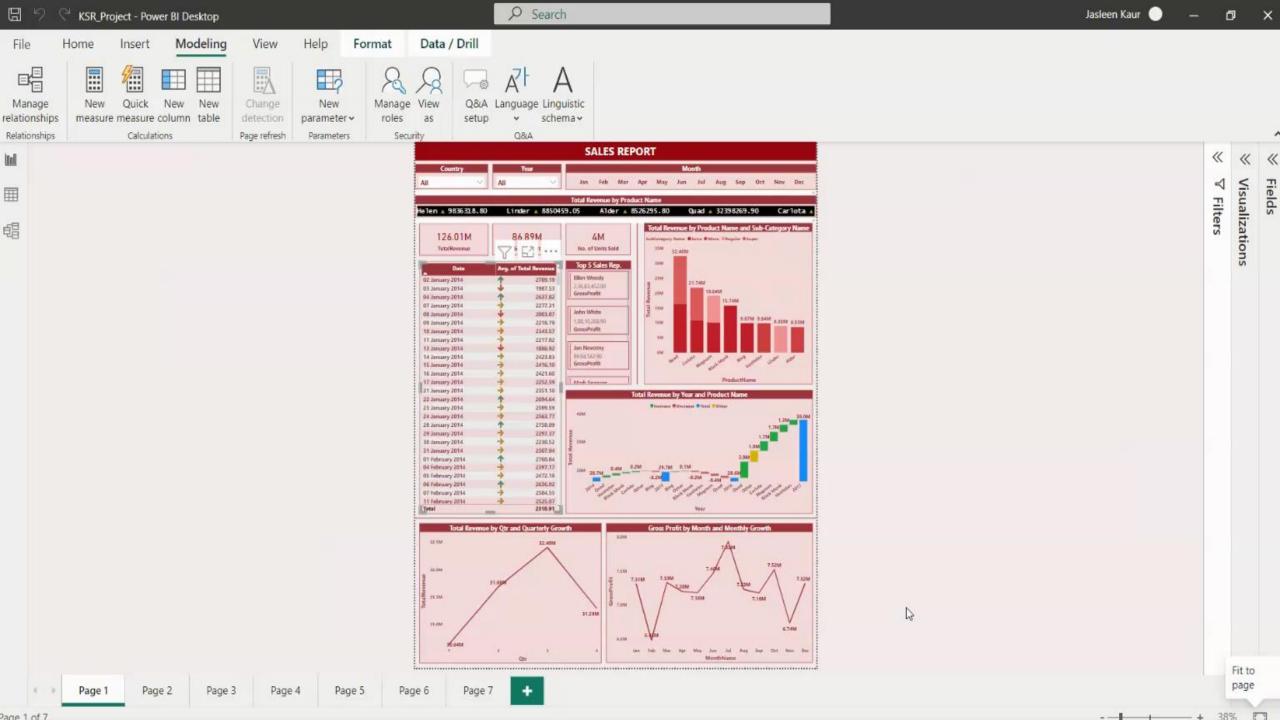
TO THIS..







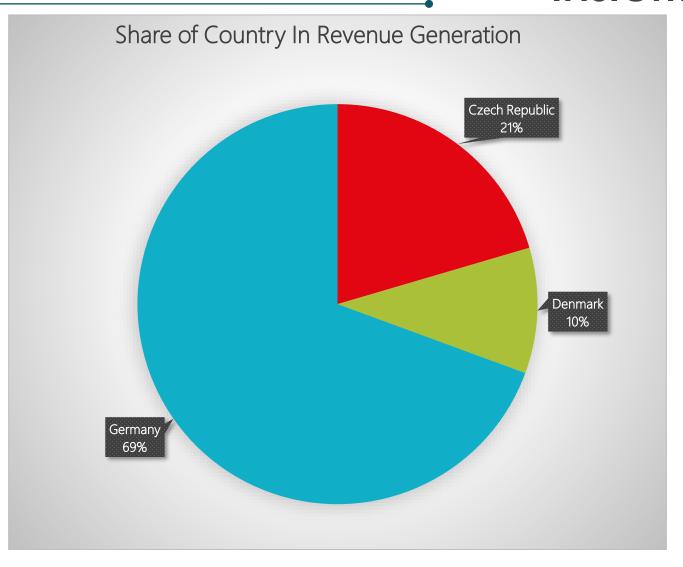
DATA VISUALIZATION





SHARING INSIGHTS

INSIGHT-1





Total Revenue: 126.01 M Germany's Revenue: 87.45 M



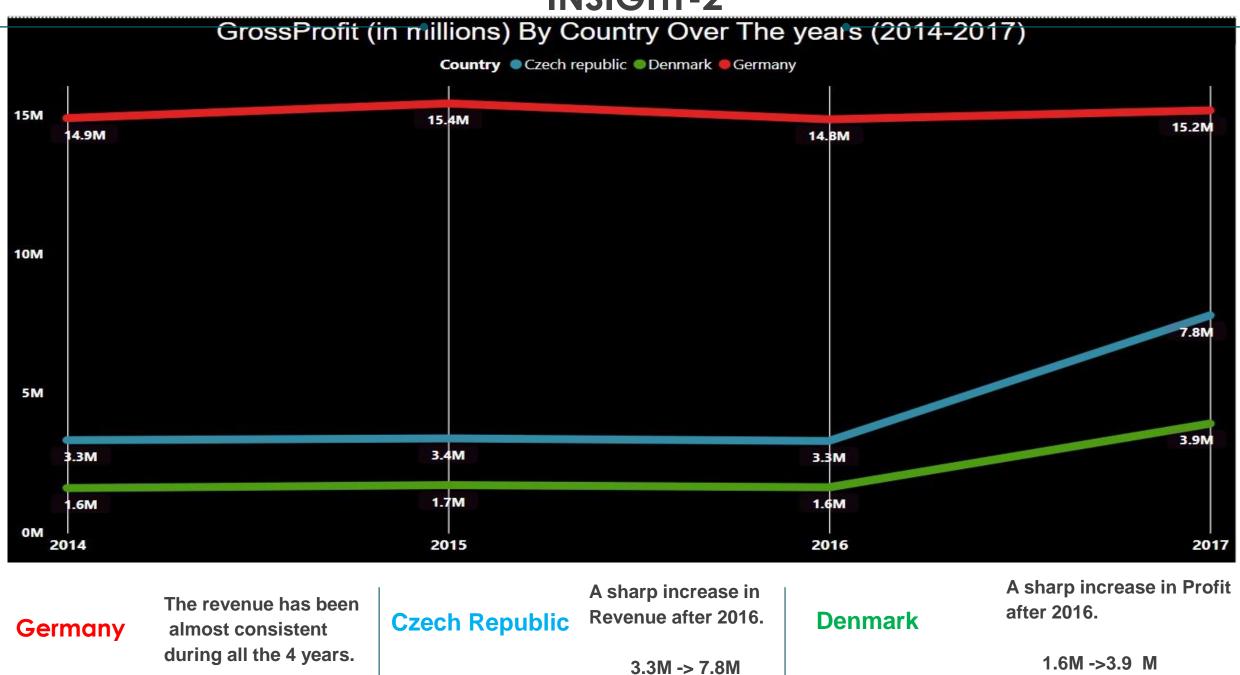
Total Revenue: 126.01 M Czech Republic's Revenue: 25.77 M



Total Revenue: 126.01 M Denmark's Revenue: 12.79 M

Germany has the maximum contribution to revenue generation.

INSIGHT-2



AWARD FOR OUTSTANDING CONTRIBUTION

Ellen Woody From Germany

should be awarded as the

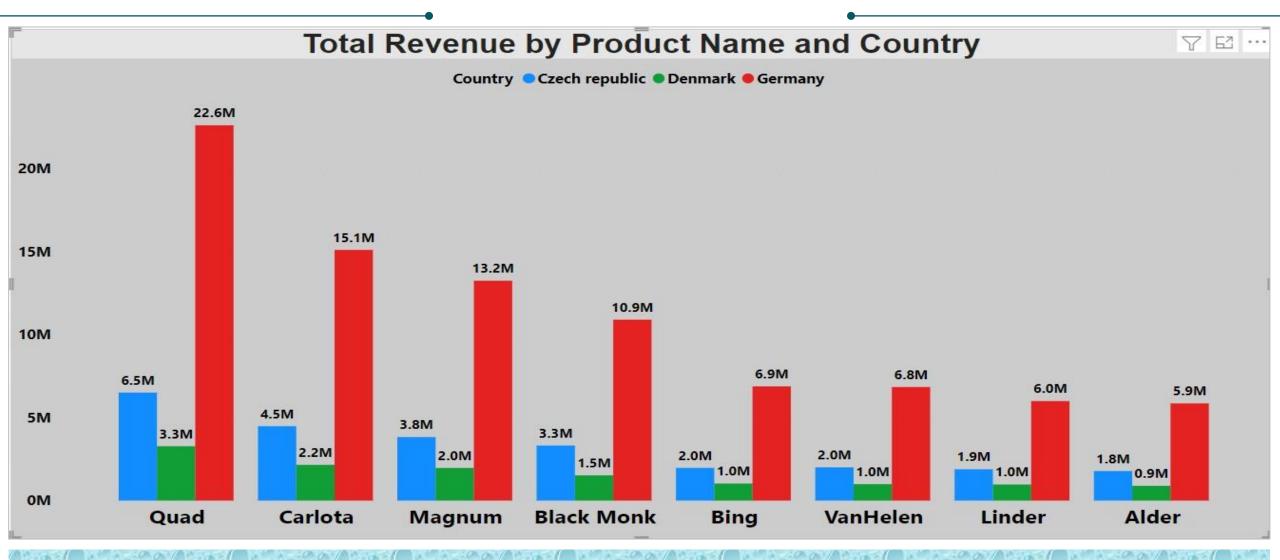
"BEST SALES REPRESENTATIVE"

for making the highest profit of

23683452 .00.

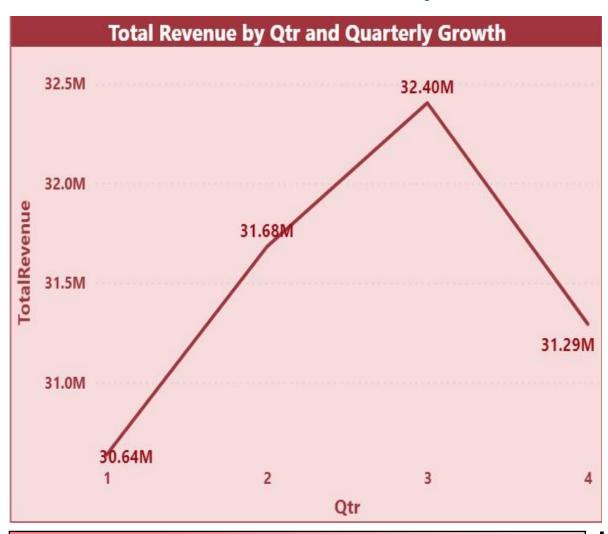


INSIGHT-4



Top 3 Products **Quad, Carlota, and Magnum** should be produced in more Quantities as they have contributed the maximum to the revenue generation in all the countries (Germany, Denmark & Czech Republic)

INSIGHT-5





Maximum revenue has been generated in the <u>3rd</u> <u>Quarter</u> and the <u>minimum revenue</u> has been generated in the <u>1st quarter</u>.

The month of July earned the maximum profit followed by June and August. Feb has earned the minimum profit.

Thank You

An Effort By: JASLEEN KAUR