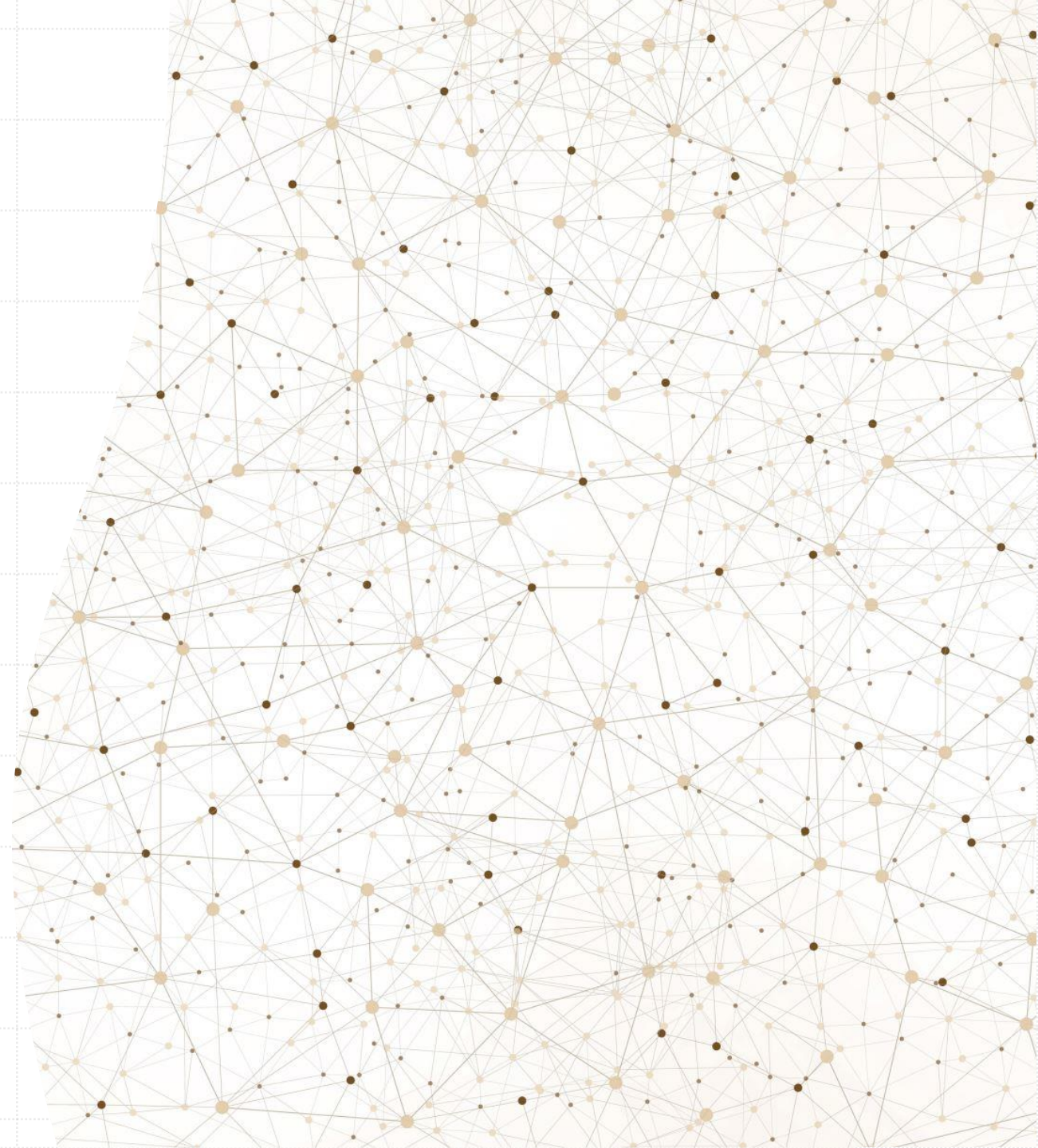


POWER BI AVANZADO





PRESENTACIONES

Kaur Kota

OVERVIEW

Sales Report

\$5.3M

Australia

\$5.3M

Canada

\$2.6M

France

\$2.3M

Germany

\$3.3M

UK

\$21.8M

USA

Key influencers

Top segments

What influences NPS to be

7



When ...

...the likelihood of NSAT being 7 increases by

UnitPrice is 298.5 - 299.94

10.20x

UnitPrice is 197.45 - 199.45

10.20x

Manufacturer is Litware, INC.

10.20x

Color is Brown

10.20x

StockType is High

10.20x

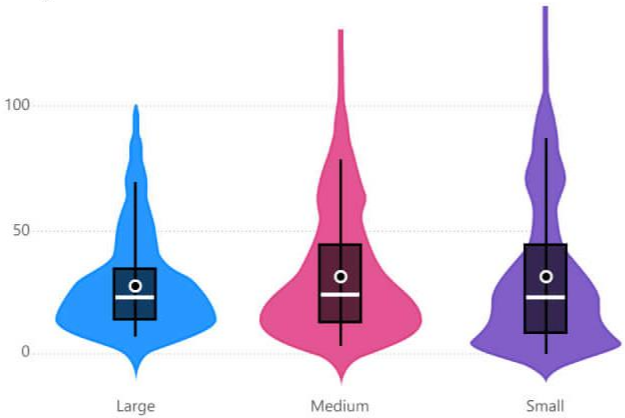
Manufacturer is Contoso, Ltd

10.20x

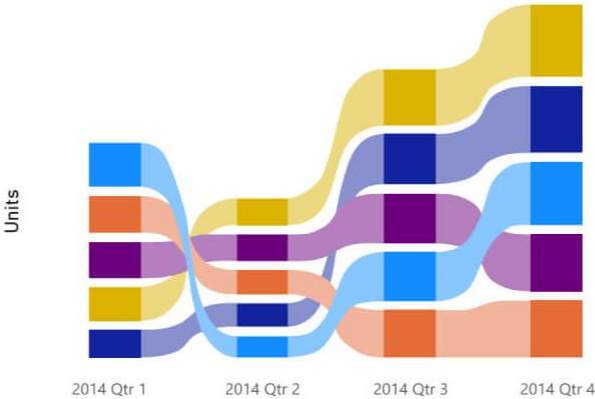
Color is Silver

10.20x

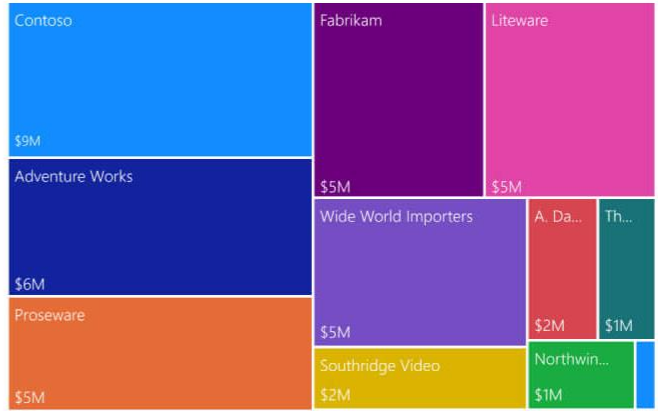
Units by Product and Sale Size



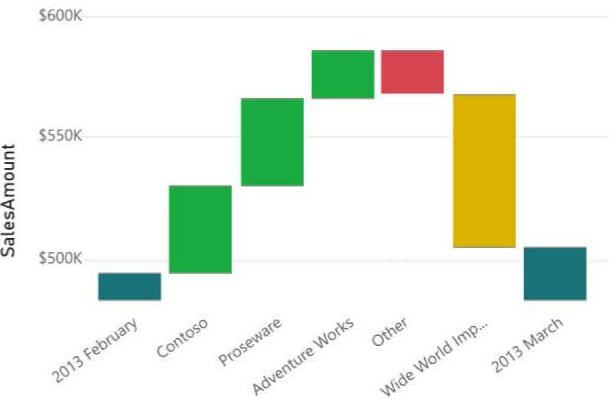
Sales Amount by Year, Month and Brand Name



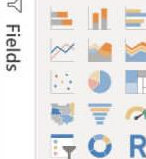
Sales Amount by Brand Name



Sales Amount by Year, Month and Brand Name



Visualization



Values

Drag data fields here

Drillthrough

Keep all filters

Off

Drag data fields here



Synapse Data
Warehousing



Synapse Data
Engineering



Data
Factory



Synapse Data
Science



Synapse Real
Time Analytics



Power BI

T-SQL

Spark

Serverless
compute

KQL

Analysis
Services

OneSecurity

Warehouse

Lakehouse

Delta –
Parquet
Format

Delta –
Parquet
Format



OneLake

Kusto DB

Dataset

Delta –
Parquet
Format

Delta –
Parquet
Format

When a new email arrives (V3)

{x} Initialize flow priority variable

Condition

Importa... x is equal to high

+ Add

✓ If yes

{x} Set flow priority as high

Add an action

✗ If no

{x} Set flow priority as normal

Add an action

Run a flow built with Power Automate for desktop

* Desktop flow

Retrieve shipping information

Edit

* Run Mode

Attended (runs when you're signed in)



BASES DE DATOS



kaggle

PREPARACIÓN DE DATOS



TRANSFORMER DATOS

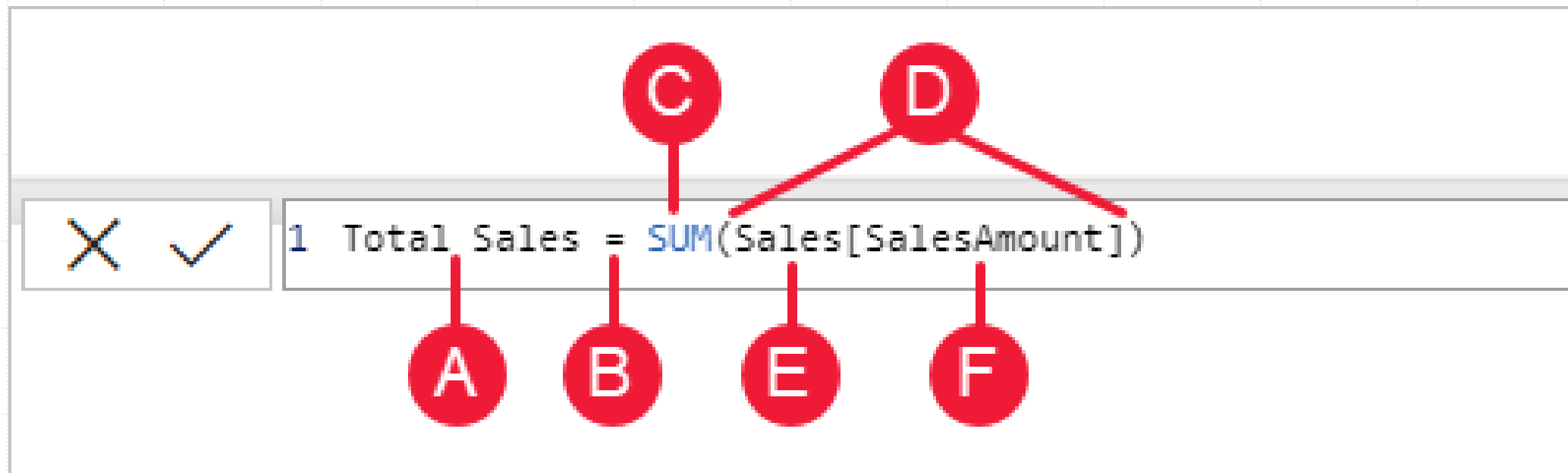
The background is a complex, abstract network visualization. It features a dense web of thin, light-colored lines connecting various nodes. The nodes are represented by small, semi-transparent cubes and spheres in shades of gray, white, and blue. The overall color scheme transitions from a light, hazy gray at the top to a deep, dark purple at the bottom. The text 'TRANSFORMER DATOS' is prominently displayed in the upper left quadrant in a bold, black, sans-serif font.

EJERCICIO

- Utilizando los csv Carpetas Investigación_FGJCDMX y CAT_Delitos.
- Eliminar columnas innecesarias (tempo)
- Combinar consultas para obtener la categoría de delito ID_CatDelito > Tabla CatDelito
- Separar los datos de long/lat en 2 columnas
- Columna condicional para identificar aquellos delitos que son robos



DAX

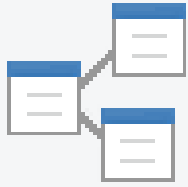


File

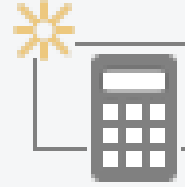
Home

Modeling

Help

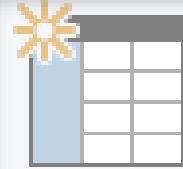


Manage
Relationships
Relationships

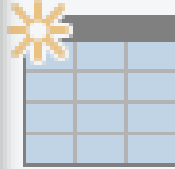


New
Measure

Calculations



New
Column

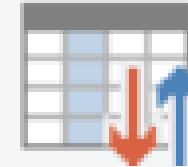


New
Table



New
Parameter

What If



Sort by
Column

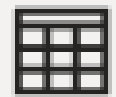
Sort

Data type: Text

Format: Text

\$ % , .00

Formatting



```
1 Price Range =  
2 SWITCH (  
3     TRUE,  
4     Sales[Net Price] < 100, "LOW",  
5     Sales[Net Price] < 1000, "MEDIUM",  
6     "HIGH"  
7 )
```


January	560 000.26	434 308.30
February	498 062.65	408 247.91
March	683 267.08	559 707.39
April	493 207.12	442 254.04
May	723 333.51	596 459.86
June	691 123.12	554 478.35
July	681 300.11	565 479.84
August	682 680.51	539 130.50
September	1 019 687.62	862 018.15
October	1 070 704.67	877 438.19
November	1 461 756.25	1 282 805.78

**Month = March
AND
Country = UK**



2006	August	\$506,191.69	\$979,579.85
	September	\$473,943.03	\$1,453,522.89
	October	\$513,329.47	\$1,966,852.36
	November	\$543,993.41	\$2,510,845.77
	December	\$755,527.89	\$3,266,373.66
	Total	\$3,266,373.66	\$3,266,373.66
	January	\$596,746.56	\$596,746.56
	February	\$550,816.69	\$1,147,563.25
	March	\$644,135.20	\$1,791,698.45
	April	\$663,692.29	\$2,455,390.74

Total Sales YoY Growth % =

```
VAR TotalSales = SUM('Internet Sales'[Sales Amount])
VAR TotalSalesPP =
    CALCULATE(
        SUM('Internet Sales'[Sales Amount]),
        PARALLELPERIOD('Date'[Date], -12, MONTH)
    )
VAR TotalSalesVariance = TotalSales - TotalSalesPP
VAR Result = DIVIDE(TotalSalesVariance, TotalSalesPP)
RETURN
Result
```


EJERCICIO

- Utilizando los csv Carpetas Investigación_FGJCDMX y CAT_Delitos.
- Generar una columna calculada para identificar el tiempo que se demora en abrir una investigación
- Calcula cual es el tiempo promedio de inicio de una investigación para el DelitoporRobo
- Generar una medida que indique si el tiempo ha incrementado o decrementado
- Calcular el promedio móvil de 3 meses para la cantidad de delitos por robo





```
1 Total Sales All Countries =  
2 CALCULATE(  
3     [Total Sales],  
4     ALL('Sales Territory'[Sales Territory Country])  
5 )
```

Australia

Canada

France

Germany

NA

United
Kingdom

United
States

Country	Total Sales	Total Sales All Countries	% of Total
Australia	\$9,061,000.58	\$29,358,677.22	30.86%
Canada	\$1,977,844.86	\$29,358,677.22	6.74%
France	\$2,644,017.71	\$29,358,677.22	9.01%
Total	\$13,682,863.16	\$29,358,677.22	46.61%

Untitled - Power BI Desktop

Clipboard External data Resources Insert Custom visuals Relationships Calculations Share

Table with unique columns = `Distinct('Table'[Column1])`

Column1
a
b
c

EJERCICIO

- Utiliza las tablas Ej_SalesTeam, Ej_Invoices, Ej_OrderLeads
- Calcula el total de ventas para cada miembro del equipo de ventas, este dato lo obtendremos de facturación
- Que porcentaje aporta cada miembro de la compañía(all selected)
- Cual es el % de participación de acuerdo a cada tipo de plato (all except)
- Generar un catalogo con los miembros de ventas (distinct)



PROVEEDOR	% DE ASIGNACIONES
SIN PROVEEDOR	31,60%
CLARO	23,35%
NOKIA	13,68%
SERVYCOM	3,07%
TCTECH	2,59%
CERAGON	2,36%
LINKTELCO	2,36%
CHAVEZCOM SRL	2,12%
GLOBALING	2,12%
GLOCOM	2,12%
CELLTREX	1,89%
IGGAMTEL	1,89%
INTEGRAR SRL	1,89%
TELKOR	1,65%
TERABYTE SRL	1,65%
COTELSA	1,42%
NOWCOM	1,42%
VECTUS	1,42%
PEREZ ELIO ULISES	1,18%
ACID	0,24%
Total	100,00%

Color de fondo - % DE ASIGNACIONES

Dar formato por

Reglas

Aplicar a

Solo valores

Según el campo

Color_condicional

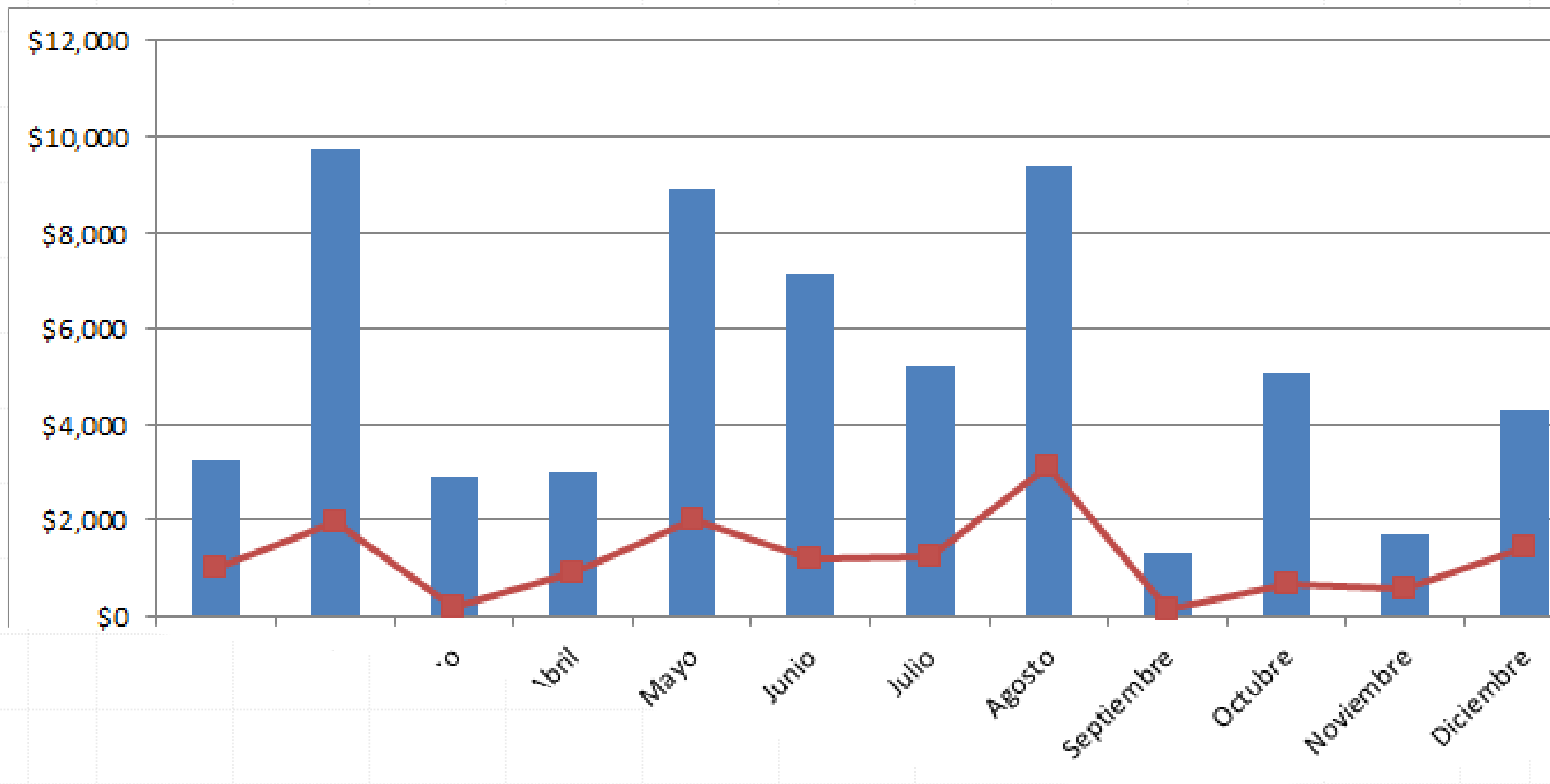
Medida creada

Reglas

1↓ Inversión del orden d...

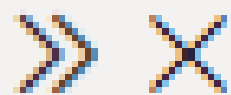
+ Nu

Si el valor	es	1	Número	entonces	
Si el valor	es	2	Número	entonces	
Si el valor	es	3	Número	entonces	





Sync slicers



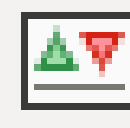
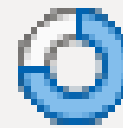
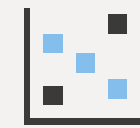
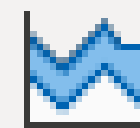
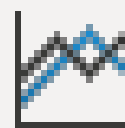
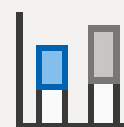
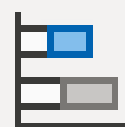
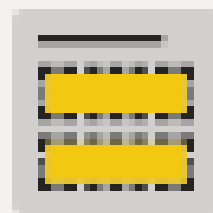
Filters

Select a slicer in one of your report pages to start syncing it across other pages

Visualizations



Build visual



EJERCICIO

A partir del archivo Tarea Drill Through, crea una página de obtención de detalles con los campos

- Cada uno de los clientes (ID)
- Fecha de adquisición del cliente (Dt_Customer)
- Educación
- Hogar del niño
- Estado_marital
- Año de nacimiento
- País

en una tabla.

Debemos de poder desplazarnos a la página de obtención de detalles utilizando los países





Root Cause Analysis

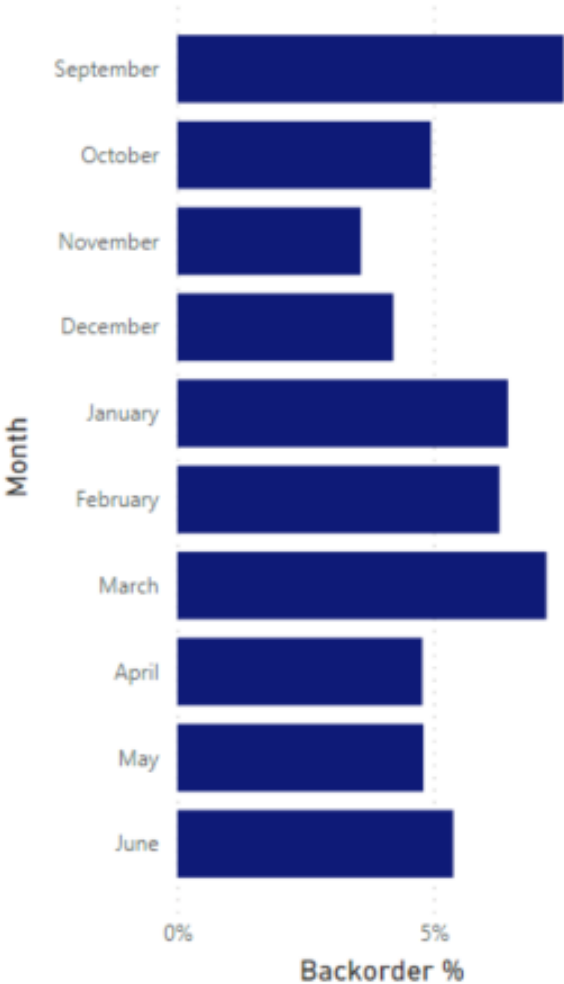
Forecast Bias ×
Accurate (5% to -5%)

Demand Type ×
Intermittent

Product Type ×
Patient Monitoring

Plant ×

Average of Backorder % by Month



Month

High Risk

Low Risk



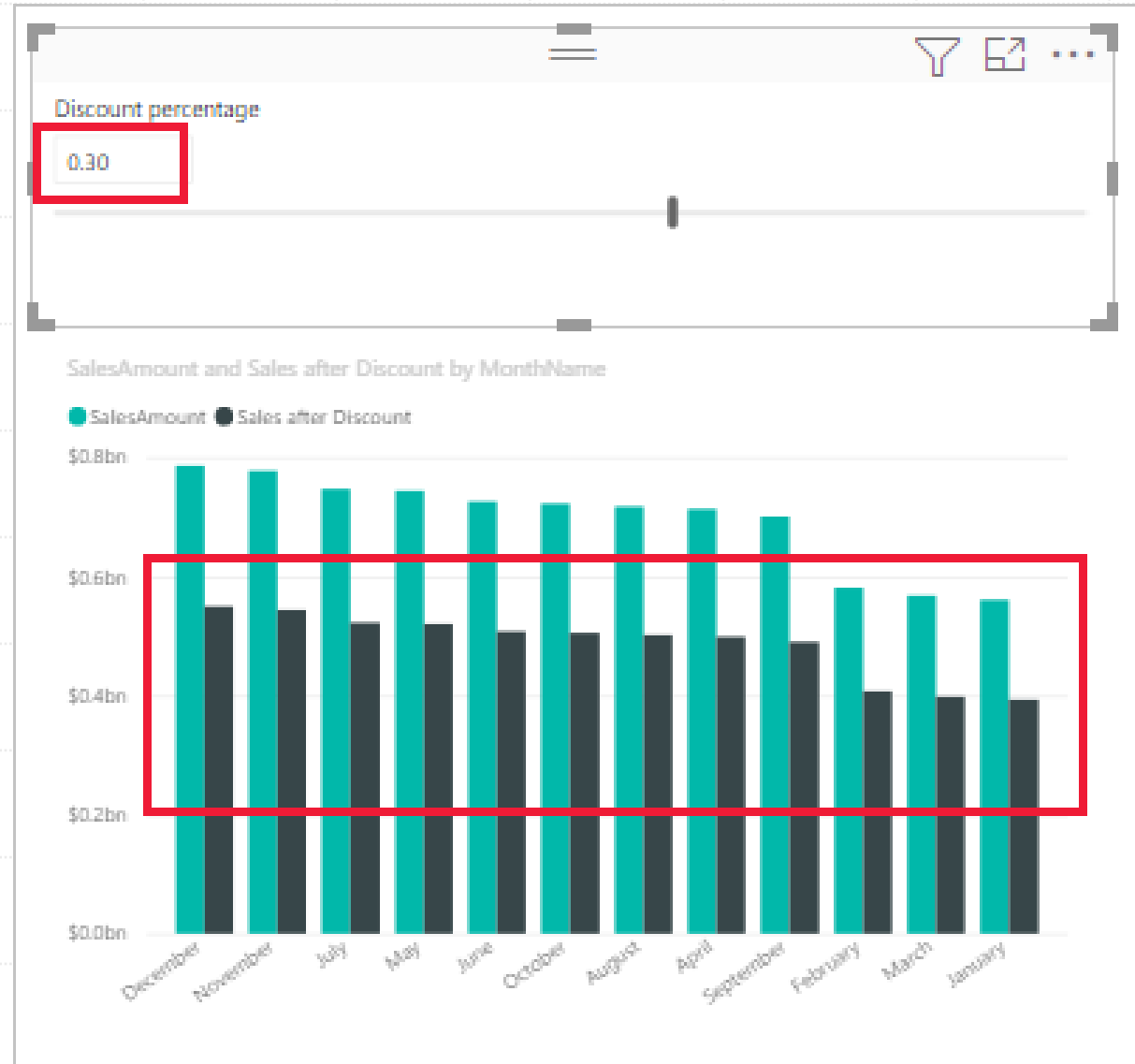
EJERCICIO

1

2

3

WHAT IF



When...

3

...the likelihood of Rating being Low increases by

Role in Org is consumer

2.57x

Theme is usability

2.55x

Theme is security

2.09x

Subscription Type is Premier

1.83x

Company Size is < 5,000

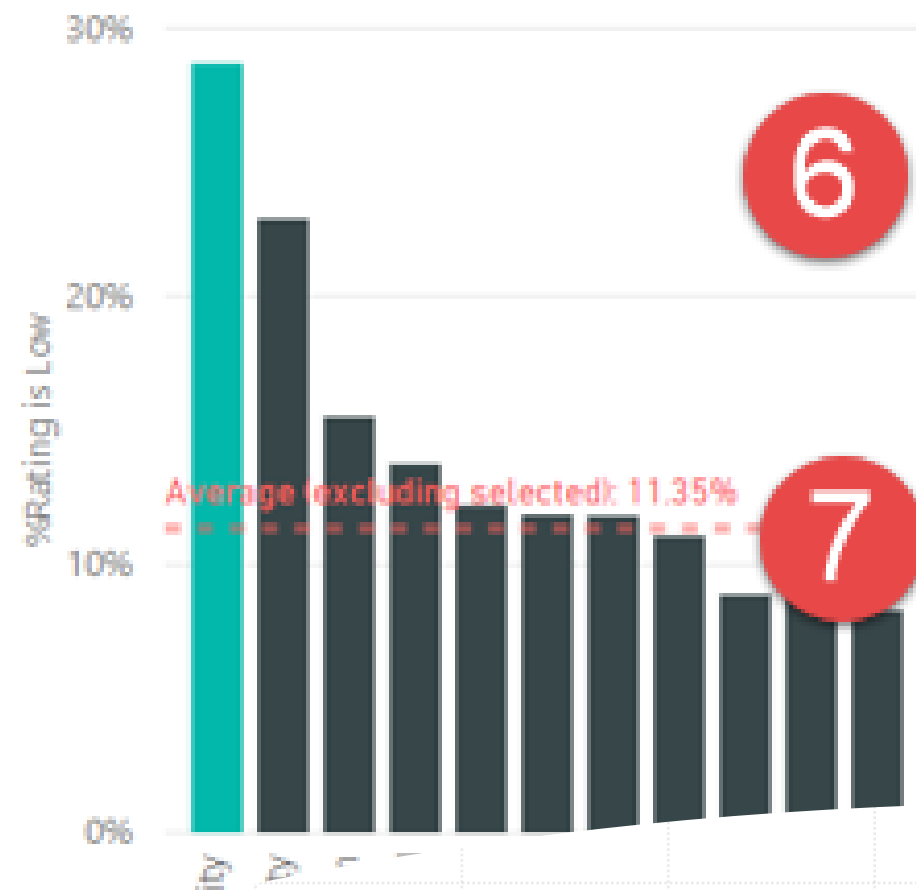
1.48x

Country-Region is France

1.44x

4

Rating is more likely to be Low when Theme is usability than otherwise (on average).

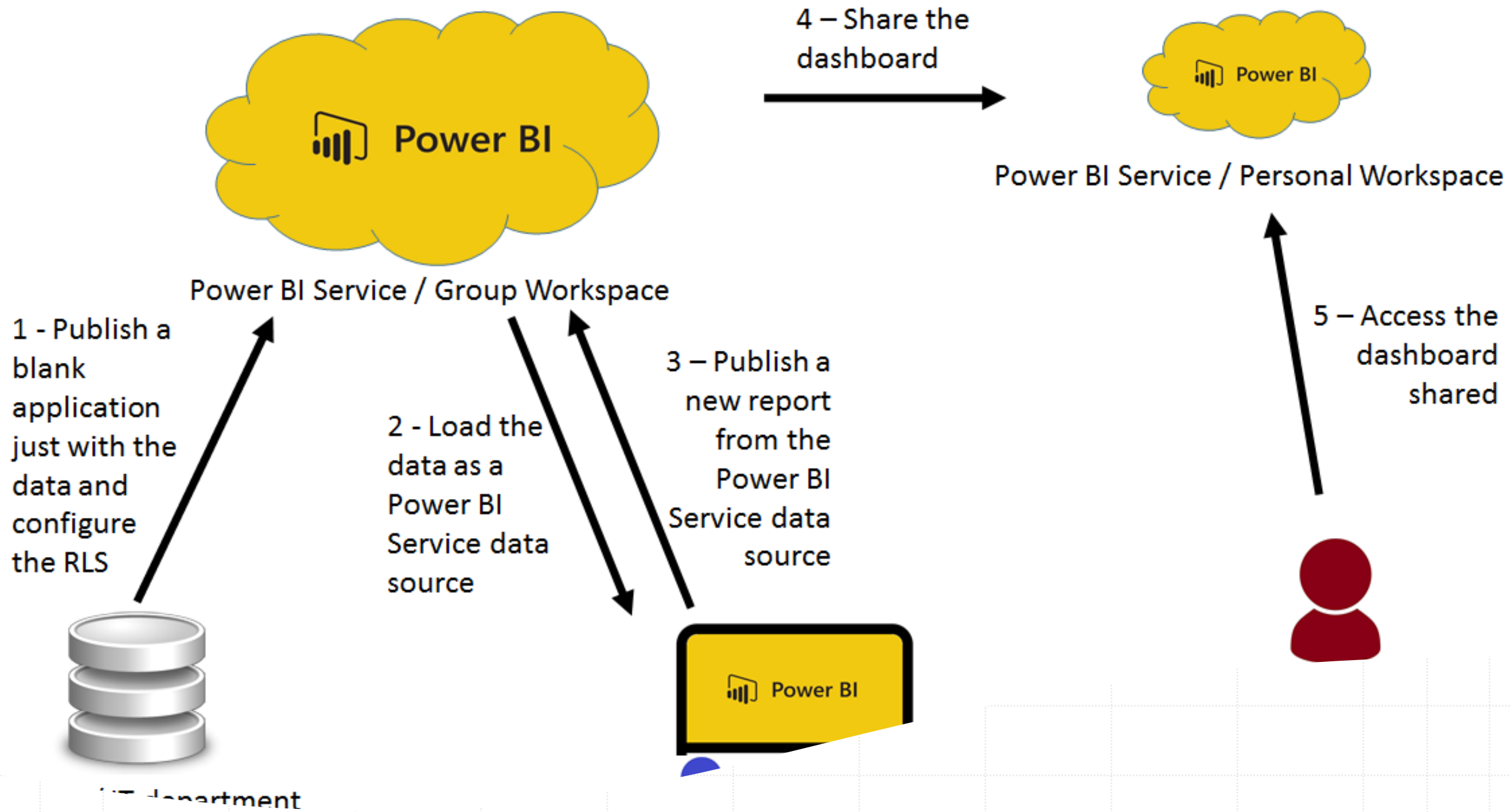


EJERCICIO

1

2

3



EJERCICIO

1

2

3

Data Source On-Premises



Oracle



SQL Server

 Power BI

Power BI Personal Gateway



Power BI Personal Gateway



Scheduled Data
Refresh

Data Visualization



Desktop



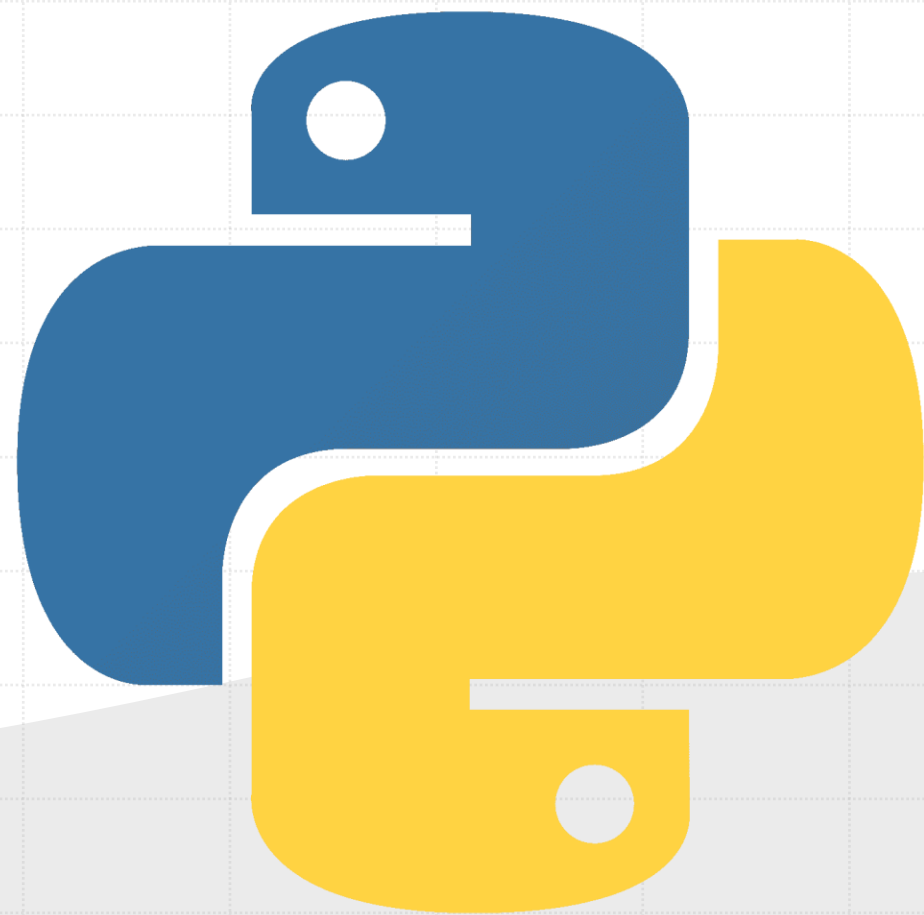
Tablet



Mobile



Apple



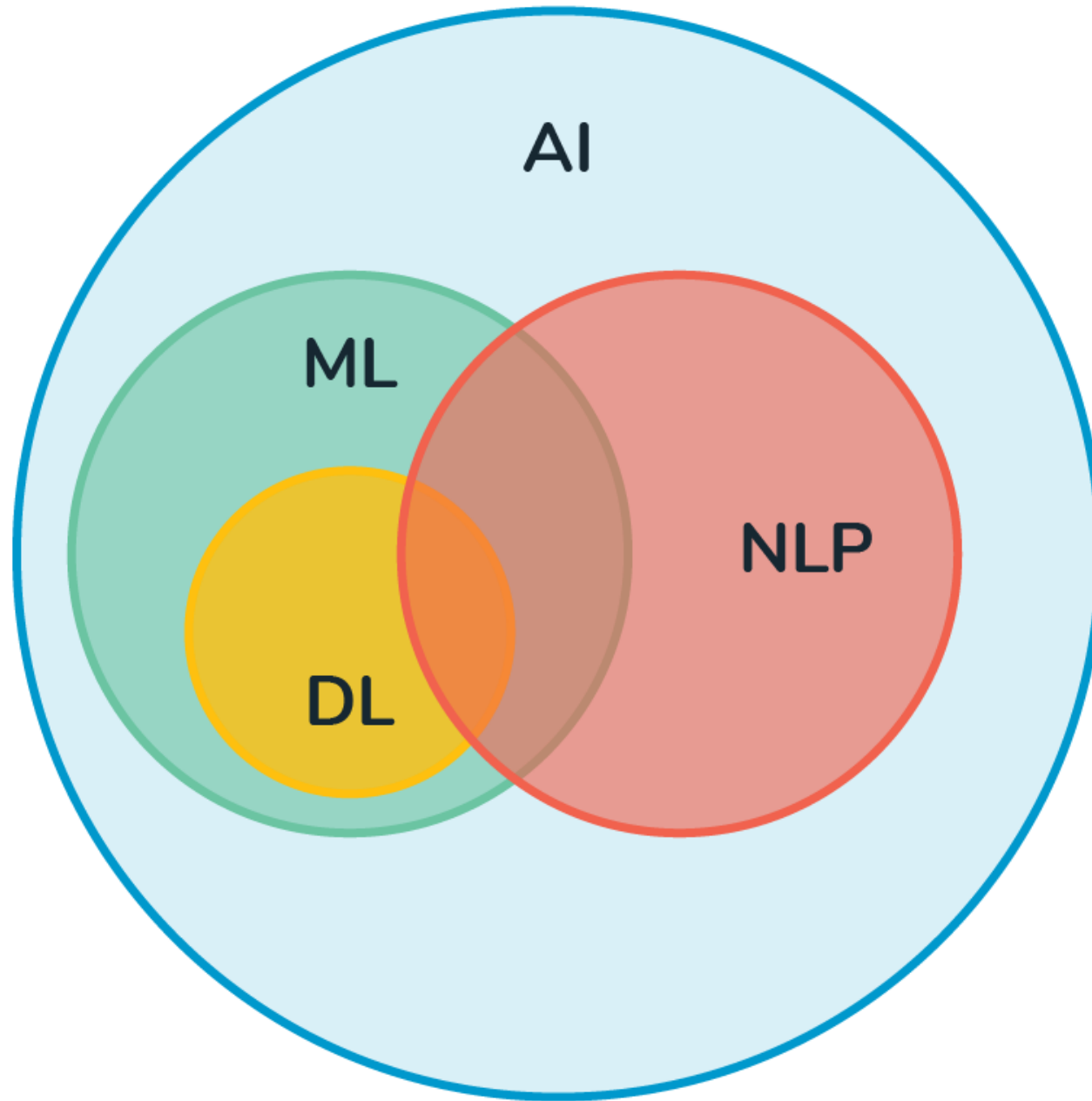
pythonTM





EJERCICIO

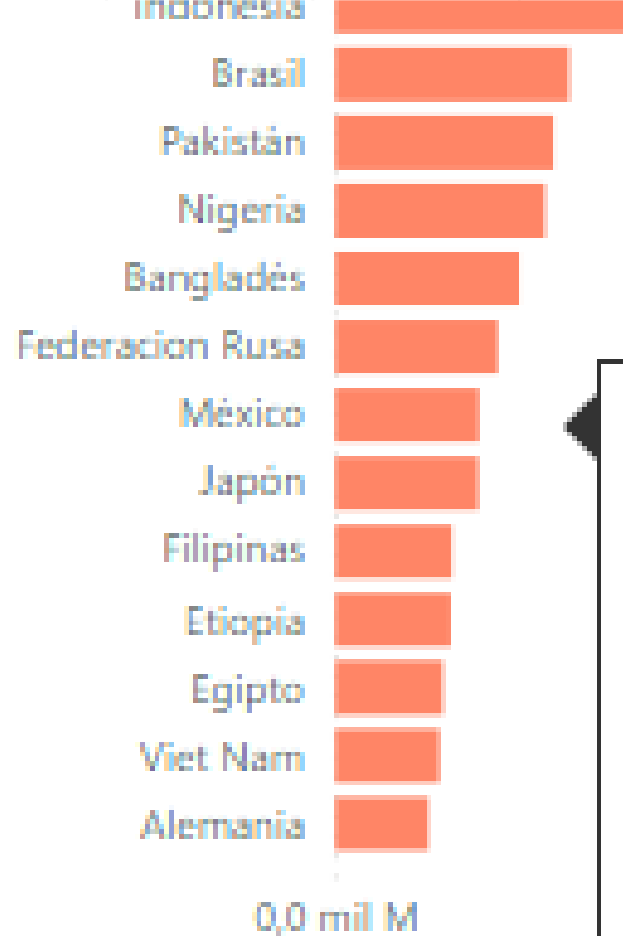
1

2

3



-  Artificial intelligence
-  Machine learning
-  Language Processing
-  Deep learning



País

México

Continente al que
pertenece
América

128 mill.

Población

75,90

Esperanza de vida



EJERCICIO

1

2

3

Power Automate



EJERCICIO

1

2

3



Base de datos SQL Server

Servidor ⓘ

SQLServer01

Base de datos (opcional)

AdventureWorksDW

Modo Conectividad de datos ⓘ

☒ Importación

☐ DirectQuery

Opciones avanzadas

Aceptar

Cancelar

Base de datos SQL Server

Servidor ⓘ

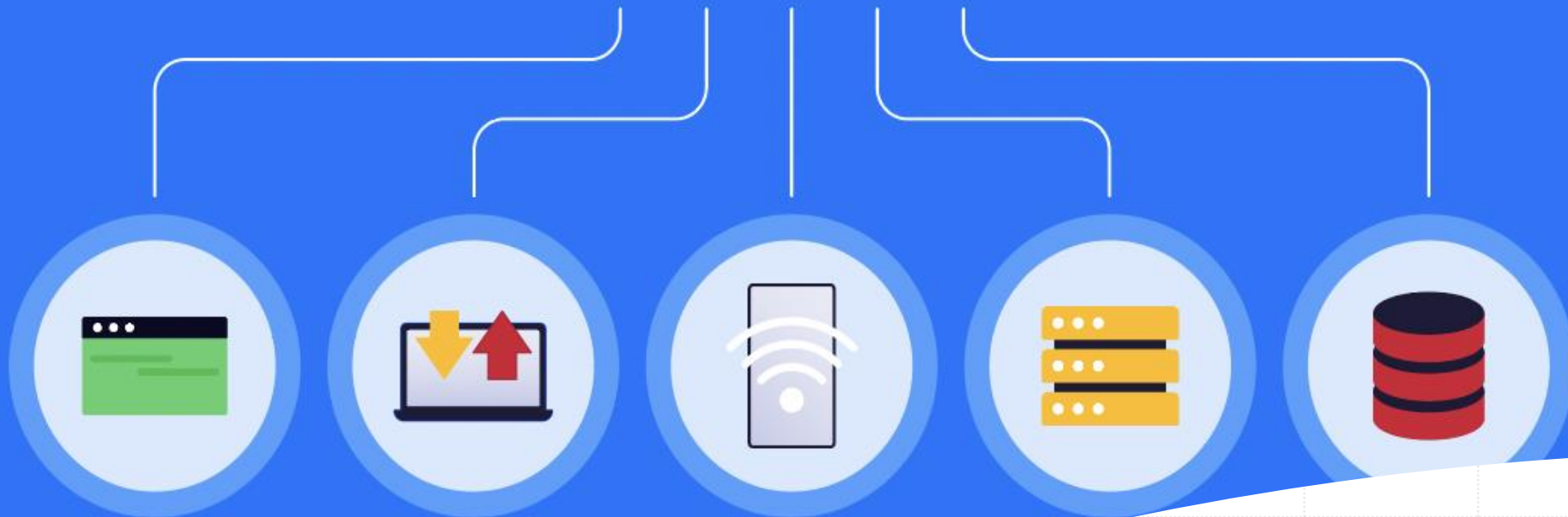
Base de datos (opcional)

Modo Conectividad de datos ⓘ

- ☒ Importar
- ☐ DirectQuery

▸ Opciones avanzadas

API





PROYECTO FINAL