What is Power BI?

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What is Power BI?

Data Visualization

What is Power BI?

Data Visualization

Figure 1: Magic Quadrant for Analytics and Business Intelligence Platforms

Source: Gartner

What is Power BI?

Data Visualization → Data Analysis
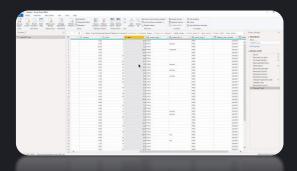
What is Power BI?

Data Transformation ——— Data Visualization

What is Power BI?

Data Transformation

Data Model

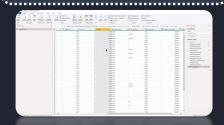Data Visualization

What is Power BI?

Power BI Desktop
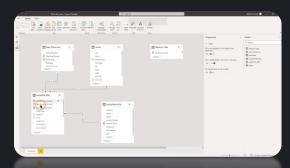
Data Transformation — Data Model — Data Visualization
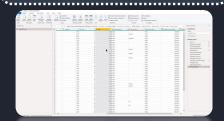
Power BI Cloud
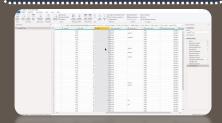
Share & Collaborate

What is Power BI?

Data Visualization
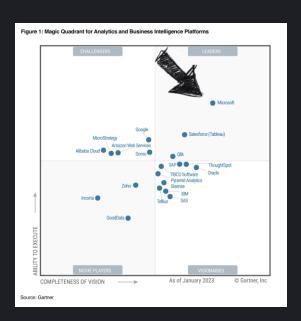
Data Analysis

Eliminate weaknesses

Confident & Prepared

What is Power BI?

Data Visualization

Figure 1: Magic Quadrant for Analytics and Business Intelligence Platforms

Source: Gartner

Our Project Data

E-Commerce sales analysis

❑ <u>Raw</u> (and messy) sales data from an e-commerce store

order_id (	product_i	column3	store_id	order_dat	order_dat	sales	revenue	stock	price	promo_ty	promo_bi	promo_ty	promo_bi	promo_di	delivery_	delivery_date_format2
	Sales data from an e-commerce store // The company wants to have the sales analyzed including promotions and delivery time															
1	P0258		S0008	1/2/2017	2-Jan-17	0 sales	0	5	6.5	PR14		PR03		NA	1/5/2017	5/1/2017
NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2	P0348		S0110	1/2/2017	2-Jan-17	0 sales	0	9	2.1	PR05	verylow	PR03		NA	1/4/2017	4/1/2017
3	P0219		S0026	1/2/2017	2-Jan-17	5 sales	33.56	3	7.25	PR14		PR03		NA	1/5/2017	5/1/2017
3	P0219		S0026	1/2/2017	2-Jan-17	5 sales	33.56	3	7.25	PR14		PR03		NA	1/5/2017	5/1/2017
3	P0219		S0026	1/2/2017	2-Jan-17	5 sales	33.56	3	7.25	PR14		PR03		NA	1/5/2017	5/1/2017
4	P0218	NA	S0051	1/2/2017	2-Jan-17	0 sales	0	1	59.9	PR05	moderate	PR03		NA	1/4/2017	4/1/2017
5	P0660		S0056	1/2/2017	2-Jan-17	1 sales	4.58	5	4.95	PR14		PR03		NA	1/4/2017	4/1/2017
6	P0695		S0023	1/2/2017	2-Jan-17	0 sales	0	33	4.85	PR14		PR03		NA	1/6/2017	6/1/2017
7	P0695		S0132	1/2/2017	2-Jan-17	0 sales	0	3	4.85	PR14		PR03		NA	1/3/2017	3/1/2017
8	P0296		S0004	1/2/2017	2-Jan-17	0 sales	0	36	0.75	PR14		PR03		NA	1/5/2017	5/1/2017
9	P0287		S0123	1/2/2017	2-Jan-17	0 sales	0	10	7.5	PR05	verylow	PR03		NA	1/4/2017	4/1/2017
10	P0114		S0137	1/2/2017	2-Jan-17	2 sales	0.83	12	0.45	PR14		PR03		NA	1/4/2017	4/1/2017
11	P0241		S0097	1/2/2017	2-Jan-17	0 sales	0	11	12.95	PR05	verylow	PR03		NA	1/6/2017	6/1/2017
12	P0165		S0102	1/2/2017	2-Jan-17	1 sales	1.3	16	1.4	PR14		PR03		NA	1/4/2017	4/1/2017

E-Commerce sales analysis

❏ <u>Raw</u> (and messy) sales data from an e-commerce store

❏ Goal: Visualize the sales

- o Sales categories
- o Promotions
- o Sales over time
- o Delivery time etc.

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❑ Goal: Visualize the sales

- ○ Sales categories
- ○ Promotions
- ○ Sales over time
- ○ Delivery time etc.

❑ We need to Transform data, create a Data Model and Visualize data

1) sales_raw2017.csv
2) producthierarchies.csv
3) … more data