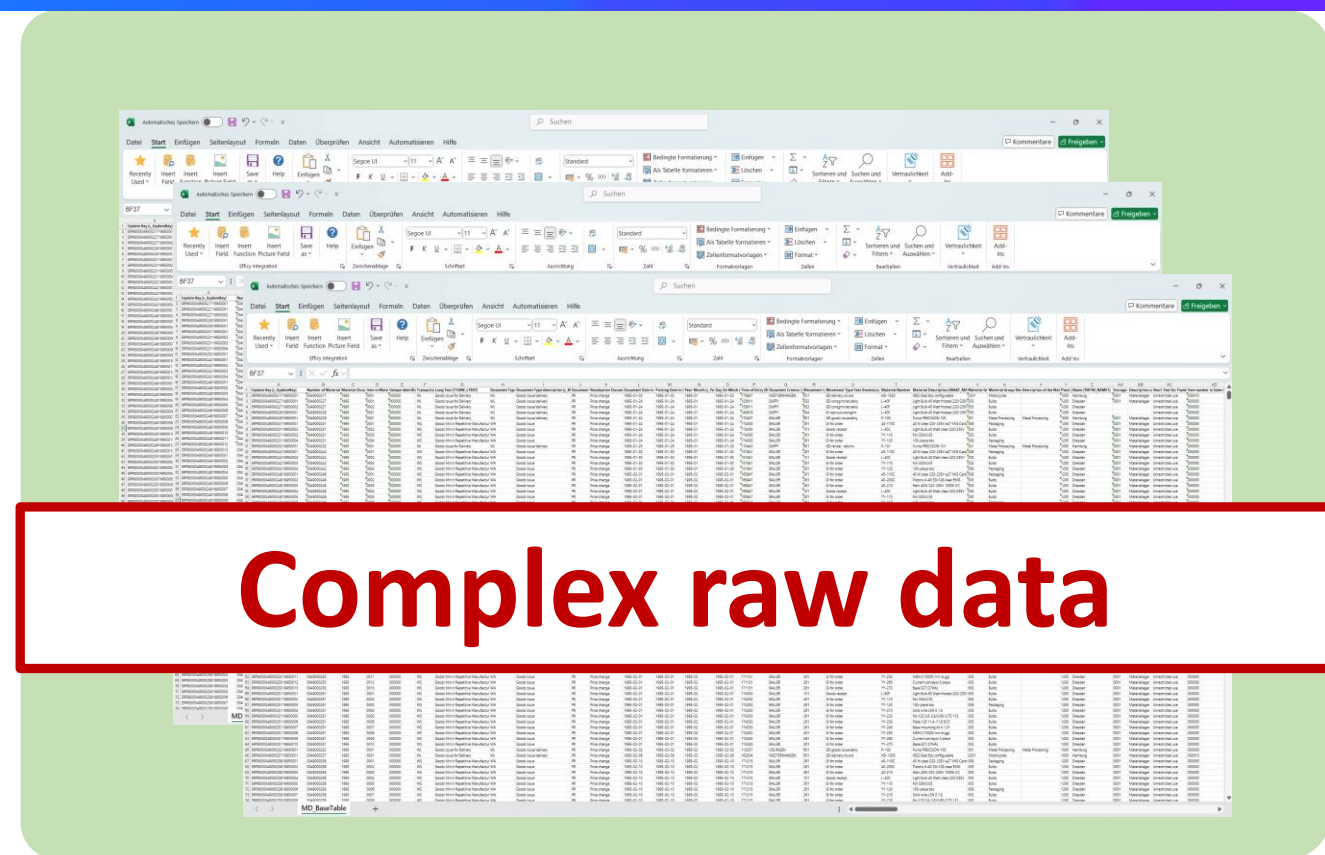


AI Analyst

Intelligent Financial Transaction Analysis with a Case Example: Duplicate Payments

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Research Data Tales, funded by the BayVFP (DIK0660)



Complex raw data

Problem statement:

- Organisations incur **financial losses** due to anomalies in financial transactions such as **duplicate payments**
- Causes include **poor master data quality, software errors, system inefficiencies, fraud** and **process weaknesses**
- The **complexity** and **volume** of data in large-scale financial systems **make detection difficult**

How can organisations detect and prevent duplicate transactions in large-scale financial systems?

Our solution

Duplicate Payment Detection

Case #1 Found 2/3/2025 Amount 100.00 € Duplicate Payment 0.00 % is Duplicate Payment AI Rating Reset to New

Document #1	Cancelled	Open with dab Link
Document Number: 1500000030 Posting Date: 22.08.2024 Invoice Date: 22.08.2024 Company: Vendor Trade Goods Company Code: DAB1 Reference: 1022082024 Item Text: Fiscal Year 2024		

Document #2	Recovered	Open with dab Link
Document Number: 1500000031 Posting Date: 22.08.2024 Invoice Date: 22.08.2024 Company: Vendor Trade Goods Company Code: DAB1 Reference: 1022082024		

What are the root causes of duplicate payments?

How can duplicate payments be systematically addressed?



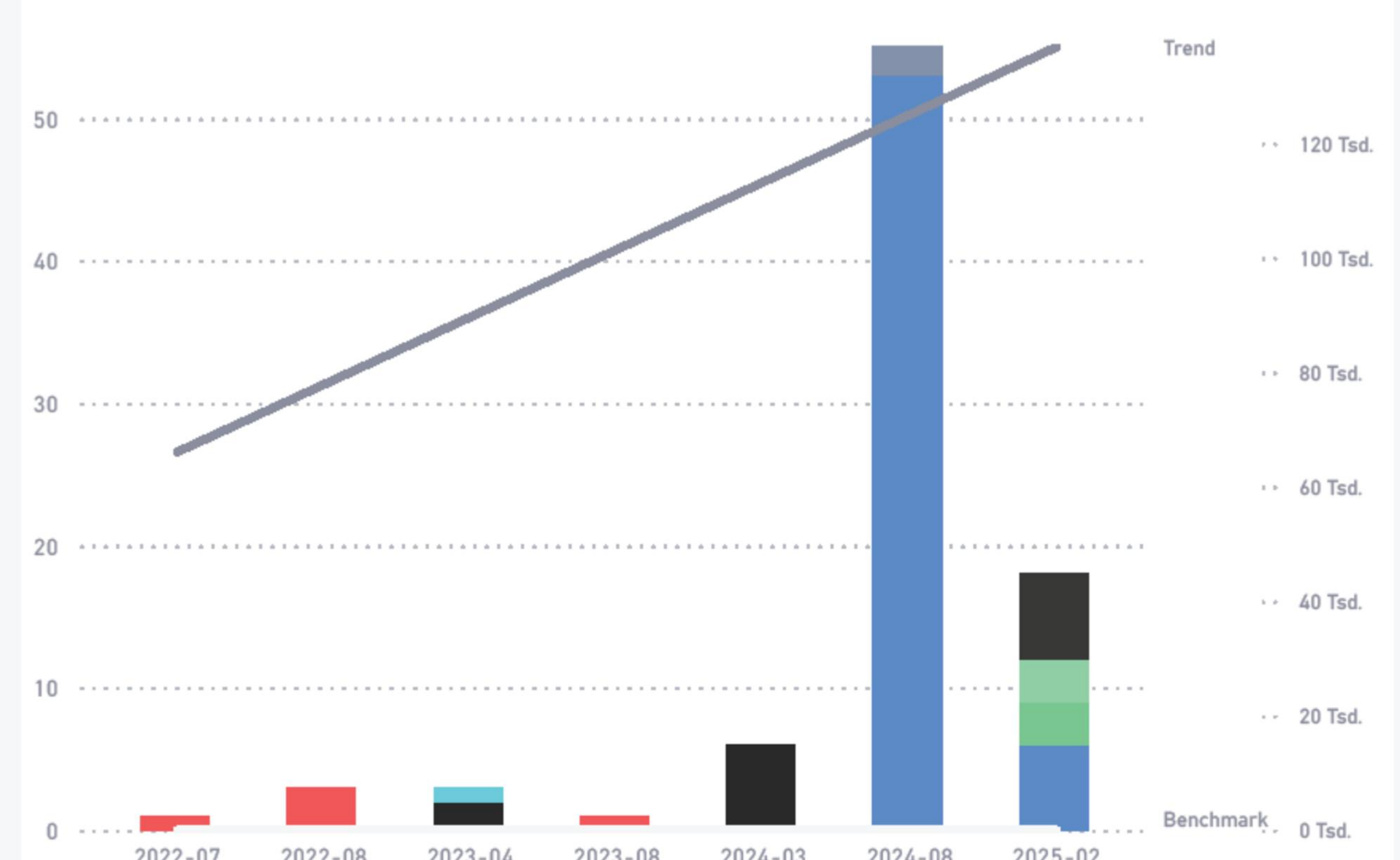
Root-Cause-Analysis for Duplicate Payments

Count Volume



Overview

Root Cause	Count	Amount
All Other	8	16.178,05
BKPF_USNAM: DAB_DEMO	5	248.698,10
BKPF_USNAM: JDRAXINGER	59	82.896,16
BKPF_USNAM: JDRAXINGER and c_BKPF_USNAM_Clearing: DAB_TEST	2	1.100,00
c_BKPF_USNAM_Clearing: and BKPF_USNAM: JDRAXINGER	3	25.325,28
c_BKPF_USNAM_Clearing: and c_BSAK_DMBTR_RC: Values between 10k and 50k and BKPF_USNAM: JDRAXINGER	3	33.351,12
c_BKPF_USNAM_Clearing: DAB_TEST	1	235.620,00
c_BSAK_DMBTR_RC: Values between	6	66.702,24
Gesamt	87	709.870,95



Root Cause	Document Nr.	Line Item Nr.	Item Text	Document Creator	Vendor Name	Vendor Country	Document Date	Amount
BKPF_USNA M: DAB_DEMO	5100000093	001		DAB_DEMO	Vendor Trade Goods	DE	Dienstag, 29. August 2023	235.620,00
c_BKPF_USN AM_Clearing: DAB_TEST	5100000025	001		LSTOCKI	Vendor Trade Goods	DE	Dienstag, 11. April 2023	235.620,00
c_BKPF_USN AM_Clearing: DAB_TEST	5100000014	001		JDRAXINGER	Vendor Trade Goods	DE	Dienstag, 11. Februar 2023	12.547,86

AI Analyst

In this analysis of duplicate payments, we focus on company code DAB1 from July 2022 to February 2025. The trend observed is increasing, indicating that the amount of potential duplicate invoices is rising over time. The average total amount of findings per month is €101,410.14, with a proportion of 0.29% of relevant cases identified as findings.

1. Frequent Document Creator: This cluster shows that the document creator "DAB_DEMO" is involved in multiple findings over different months. The higher amounts linked to this creator suggest repeated entries for potentially the same invoices, leading to possible duplicate payments.

Further, I will provide a plan of actions.

- For the **Frequent Document Creator** cluster, it is important to implement a **review process for the transactions created by "DAB_DEMO"** to identify and clarify any instances of potential duplicate entries. Regular audits can help maintain accuracy in invoice processing.

AI-Analyst is typing...

Type a message...

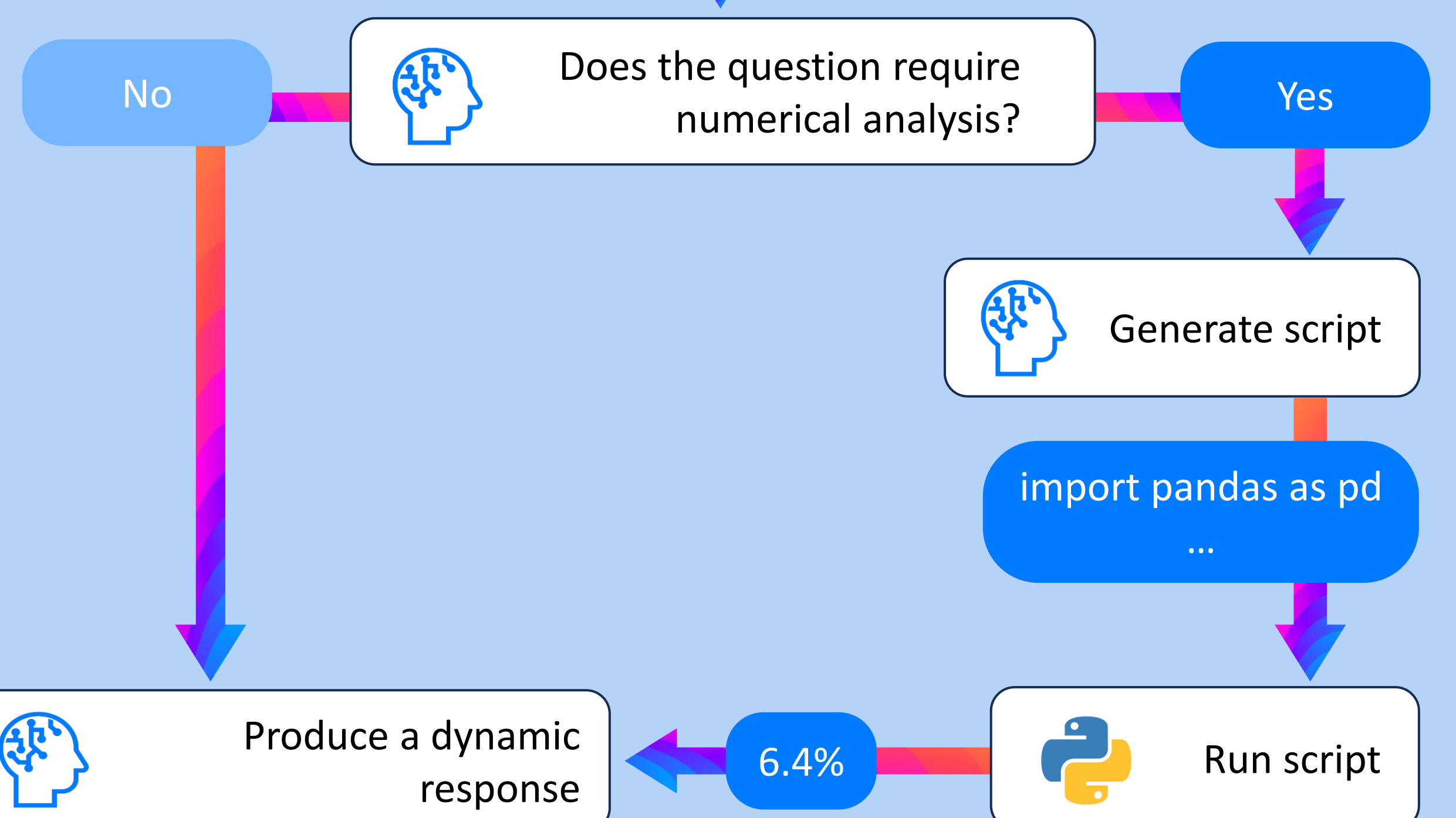
Send

Our AI Analyst supports users in addressing and understanding more than 200 use cases

What proportion of 'DAB_DEMO' transactions were flagged as duplicates?

Prompt flow

What proportion of 'DAB_DEMO' transactions were flagged as duplicates?



Approximately 6.4% of all transactions created by 'DAB_DEMO' were flagged as potential duplicates during the analysis period

Addressing Duplicate Payments:

- Ai Powered Duplicate payments **detection**
- AI-driven **Root Cause Analysis**
- AI Analyst creates insights and answers questions:
 - Avg. €101,410.14 lost monthly to potential duplicates
 - 6.4% of 'DAB_DEMO' entries flagged—indicating systematic risk.



Rödl & Partner

