

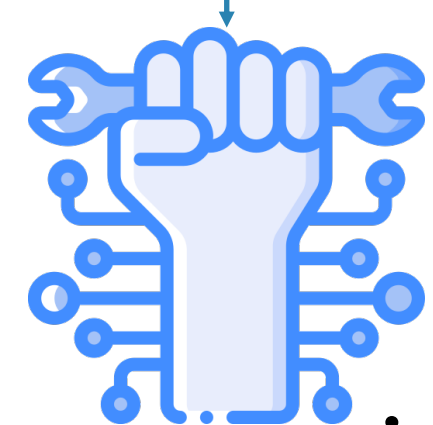
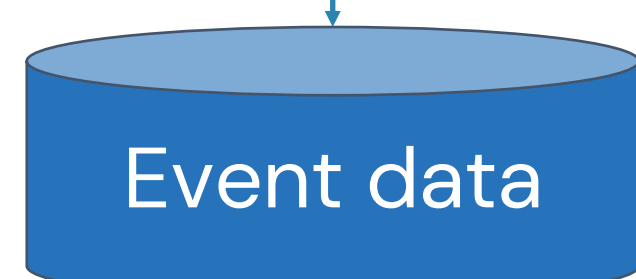
Interactive Process Identification and Selection from SAP ERP

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Background



process mining

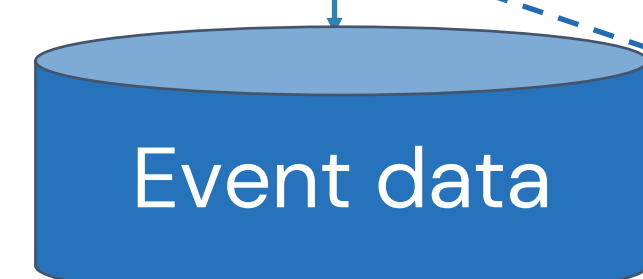
SAP ERP system supports business processes such as Order-To-Cash (O2C), i.e., management of orders from customers, and Procure-To-Pay (P2P), i.e., management of orders to suppliers.

A database of the system contains various data recorded during the enactment of business processes. We can extract event data from the database.

Process mining provides various techniques to gain insights from event logs extracted from SAP ERP systems.

Motivation

It is challenging to extract event logs from SAP ERP systems due to their complexity, e.g., a typical SAP system contains 800,000 tables with tons of relationships.



1

Identify the process to analyze

2

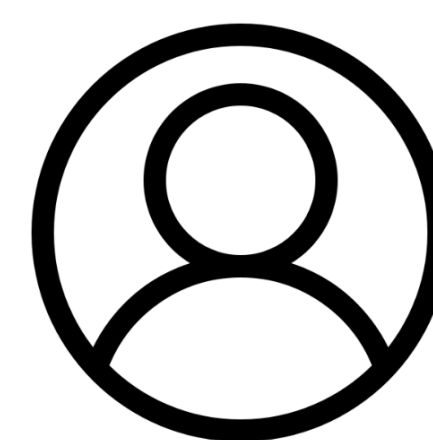
Select the relevant tables containing relevant data of the process

3

Design query statements, e.g., using SQL

Our Tool

We aim to support the domain expert for the first two steps.



1

Translate relational schema of SAP to a Graph of Relationships (GoR)

2

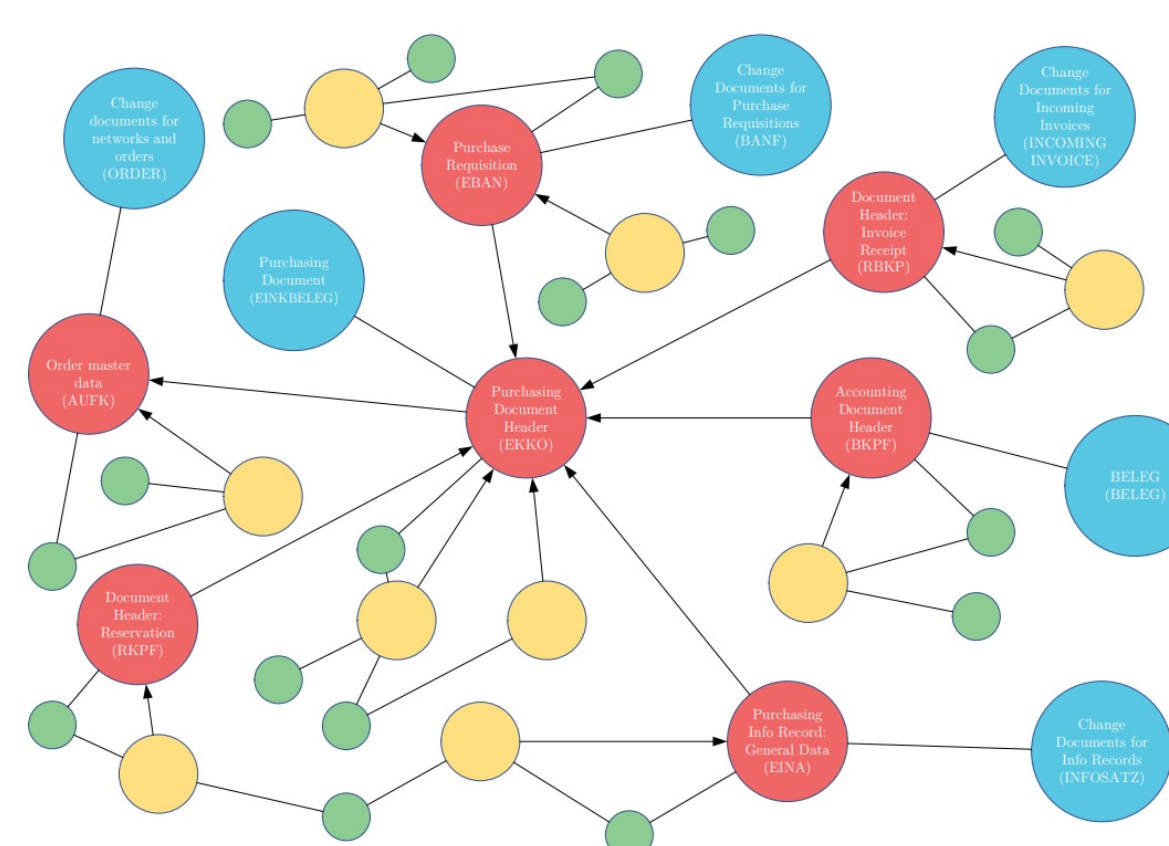
Support the identification of a business process and related tables

3

Extract Object-Centric Event Logs (OCELS)



Relational schema of SAP



Graph of Relationships (GOR)

A GoR includes tables, transactions, object classes, attributes, domains, primary/foreign keys.