

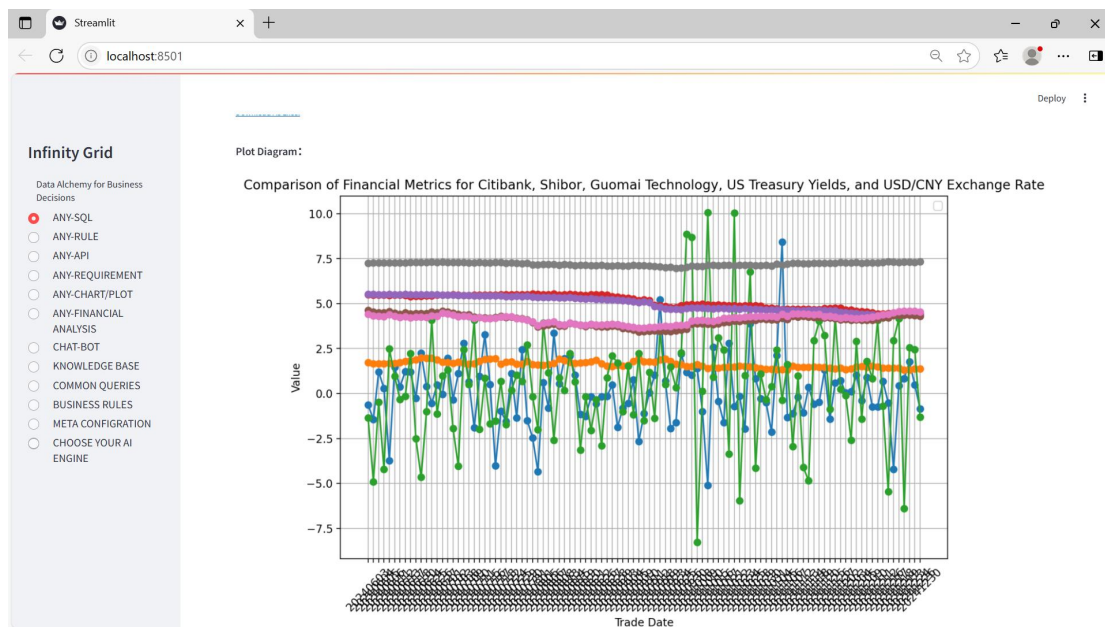
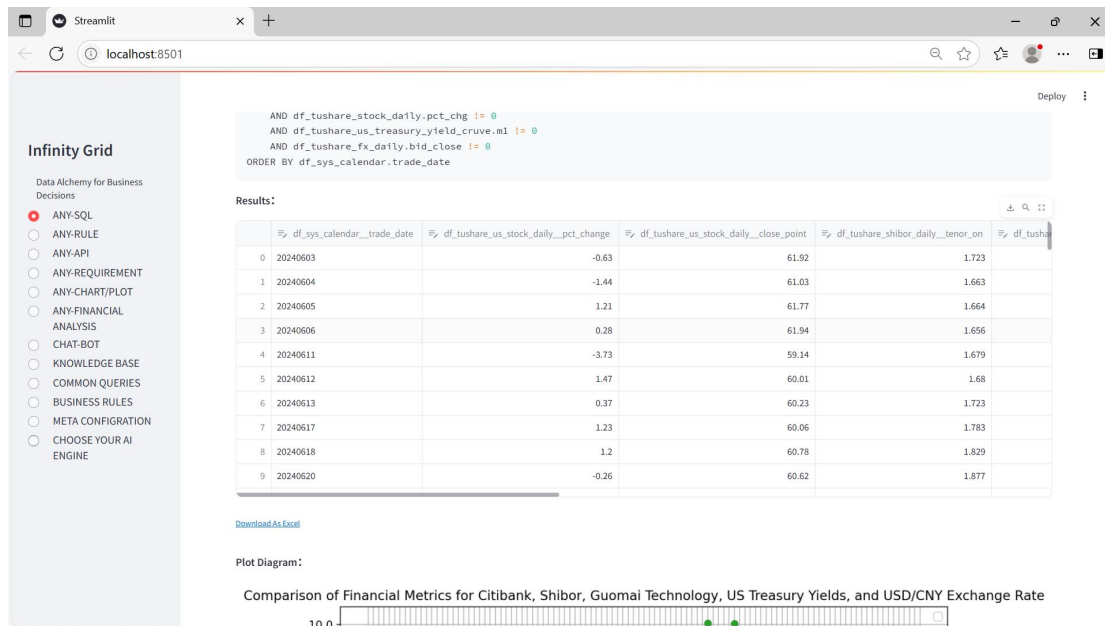
A Brief Introduction of Infinity Grid

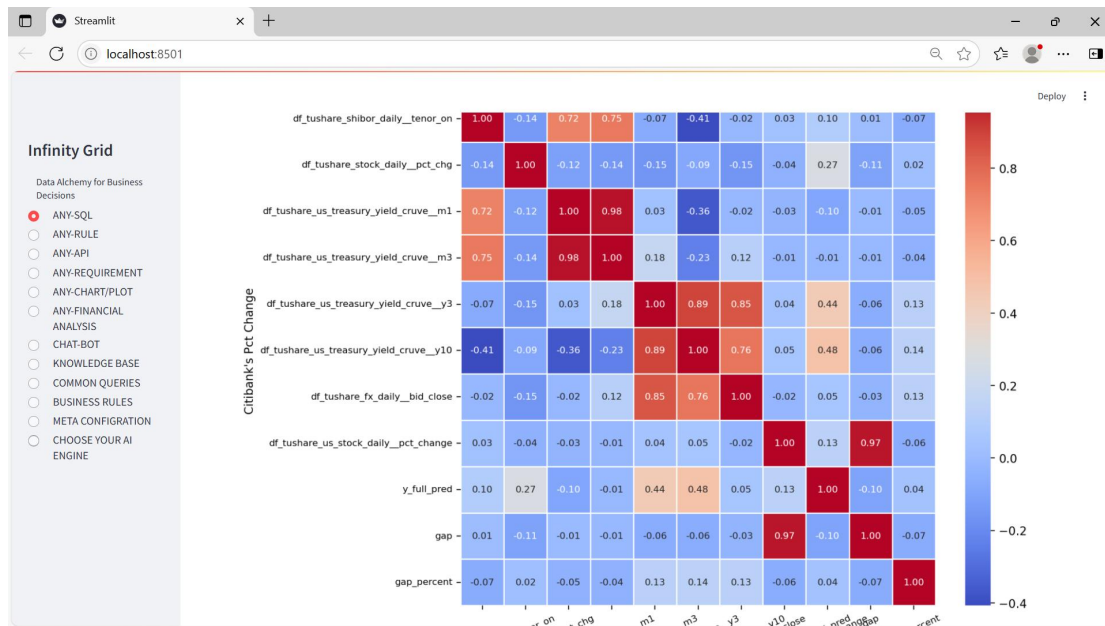
Infinity Grid is an open-source large language model Agent. Its main function is to provide large language model support for financial quantitative tools. Infinity can serve as a plug-in to offer traditional financial industries quantitative calculations for various financial models, including those for fixed income, stocks, derivatives, etc.

Function 1: Translate human language into SQL queries and complete quantitative analysis.

The screenshot shows the Infinity Grid web interface. On the left is a sidebar with a menu titled "Infinity Grid" and "Data Alchemy for Business Decisions". The menu includes options like ANY-SQL, ANY-RULE, ANY-API, ANY-REQUIREMENT, ANY-CHART/PLOT, ANY-FINANCIAL ANALYSIS, CHAT-BOT, KNOWLEDGE BASE, COMMON QUERIES, BUSINESS RULES, META CONFIGURATION, and CHOOSE YOUR AI ENGINE. The main area displays a user query in Chinese: "帮我在美国股票信息中找出花旗2024-06-02到2024-12-31的pct_change、收盘价，然后再比较 同期上海银行同业拆放利率中的overnight的收益率，比较同期中国股票中“国脉科技”的收益率、价格，再比较 美国国债收益率曲线中的 1月期、3月期、3年期收益率和10年期收益率，再比较外汇市场日行情中人民币对美元的买入收盘价。去除为0的数据，按照交易日期排序。作图，然后需要线性回归分析：花旗pct_change是ycolumn,其余是xColumns". Below the query is a "Go/查询" button. The "Explanation:" section explains the query's purpose. The "SQL Statement:" section shows the generated SQL query, which selects various financial data points from tables like df_sys_calendar, df_tushare_us_stock_daily, df_tushare_cn_index_daily, df_tushare_us_treasury_yield_curve, and df_tushare_fx_daily.

This screenshot shows the same Infinity Grid interface, but with the "Results:" section visible at the bottom. The "SQL Statement:" section displays the same SQL query as the previous screenshot. The "Results:" section is currently empty, indicating that the query has not yet been executed or the results are not yet displayed.





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Design Wizard

1 Txt2req 2 Req2UML 3 UML2schema 4 UML2testdata 5 Schema2SQL

Step 1: Txt2req

Enter your requirements below:

Requirements:

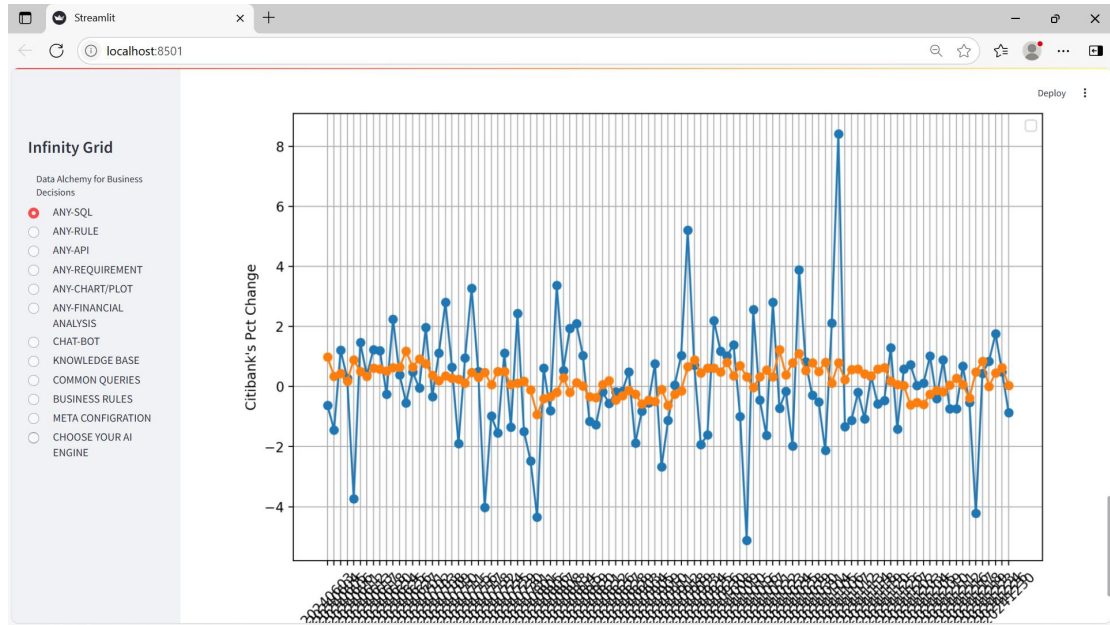
Trade Finance System Business Table Requirements

Abstract

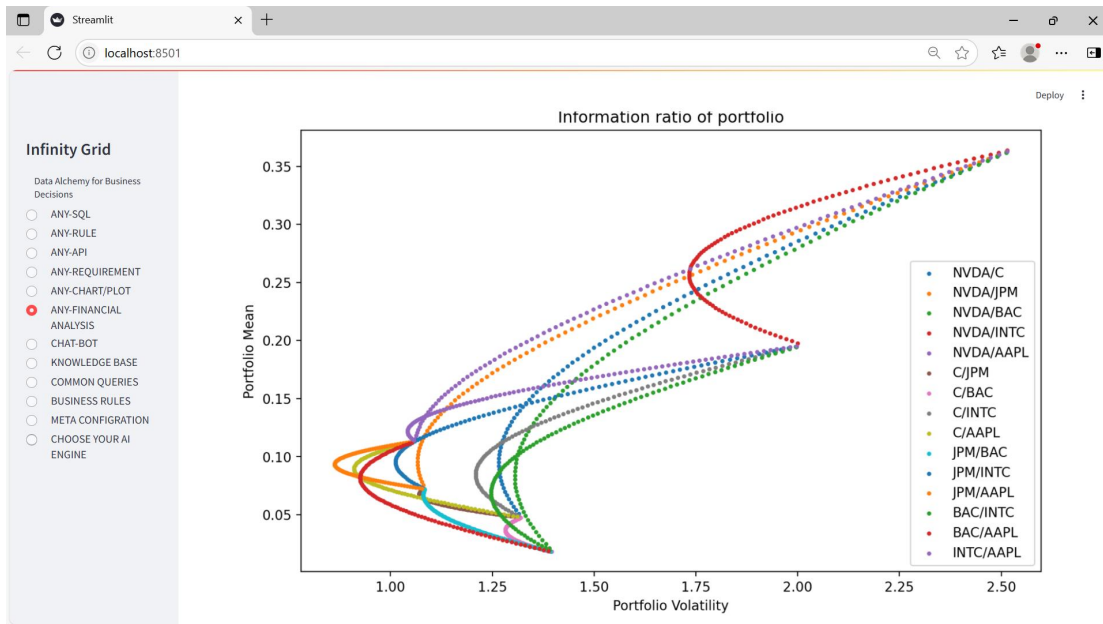
This requirement defines business tables for a trade finance system, covering core LC master data, compliance, tracking, SWIFT integration, and financial accounting, to support efficient trade operations.

Section 1 The data model of LC business

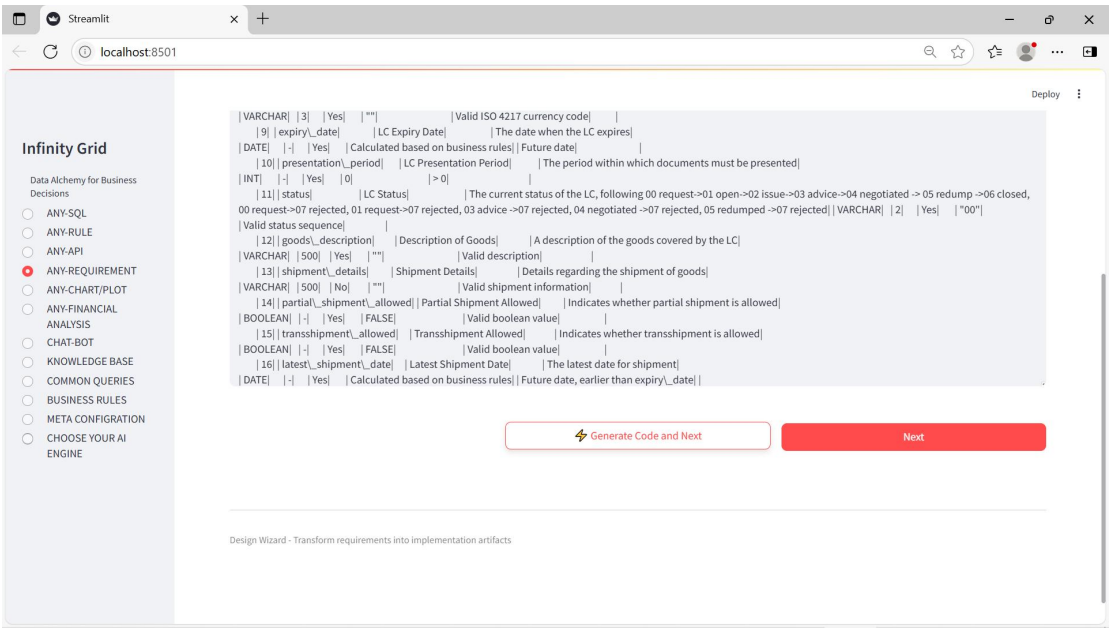
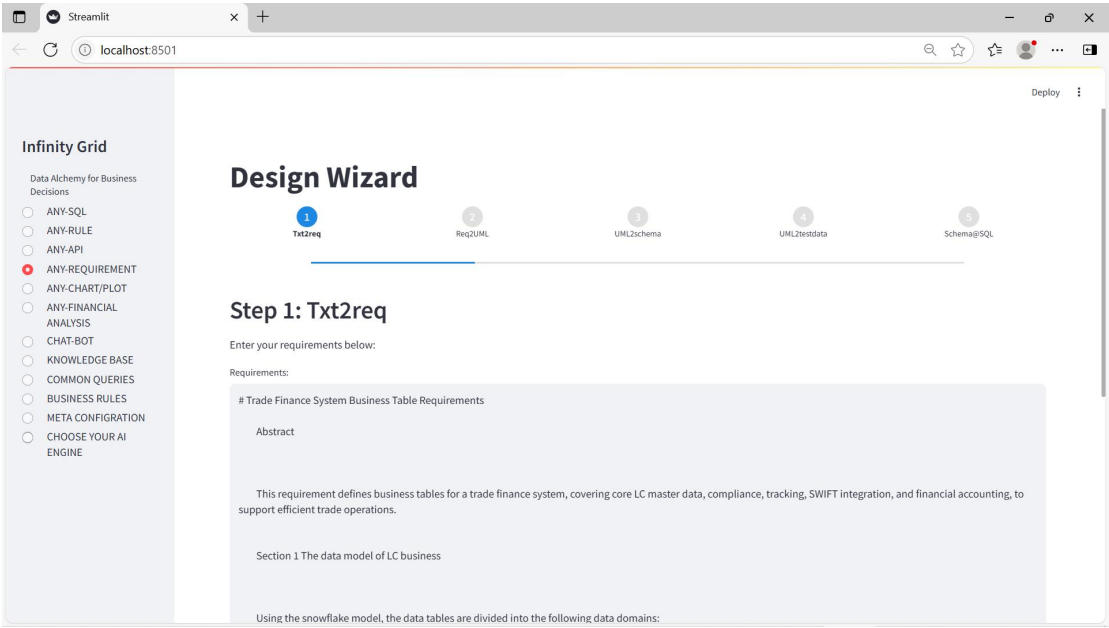
Using the snowflake model, the data tables are divided into the following data domains:



Function 2: LLM based portfolio analysis



Function 3: To parse the requirement in human lanaguage and convert it to UML and code



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Infinity Grid

Data Alchemy for Business Decisions

ANY-SQL

ANY-RULE

ANY-API

ANY-REQUIREMENT

ANY-CHART/PLOT

ANY-FINANCIAL ANALYSIS

CHAT-BOT

KNOWLEDGE BASE

COMMON QUERIES

BUSINESS RULES

META CONFIGURATION

CHOOSE YOUR AI ENGINE

UML Preview

```
@startuml
    entity infinity_core_domain_lc_master_mas {
        lc_id : String,
        applicant_name : String,
        beneficiary_name : String,
        issuing_bank_code : String,
        lc_amount : Decimal(18, 2),
        currency_code : String,
        issue_date : Date,
        expiry_date : Date,
        status : String,
        goods_description : String
    }
    entity infinity_compliance_domain_doc_compliance_mas {
        lc_id : String,
        doc_set_id : String,
        doc_type : String,
        submission_date : Date,
        compliance_status : String
    }
    entity infinity_transaction_domain_trans_tracking_mas {
        trans_id : String,
        lc_id : String,
        trans_type : String,
        trans_date : Date,
        amount : Decimal(18, 2)
    }
    entity infinity_integration_domain_swift_integration_mas {
```

Deploy

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Infinity Grid

Data Alchemy for Business Decisions

ANY-SQL

ANY-RULE

ANY-API

ANY-REQUIREMENT

ANY-CHART/PLOT

ANY-FINANCIAL ANALYSIS

CHAT-BOT

KNOWLEDGE BASE

COMMON QUERIES

BUSINESS RULES

META CONFIGURATION

CHOOSE YOUR AI ENGINE

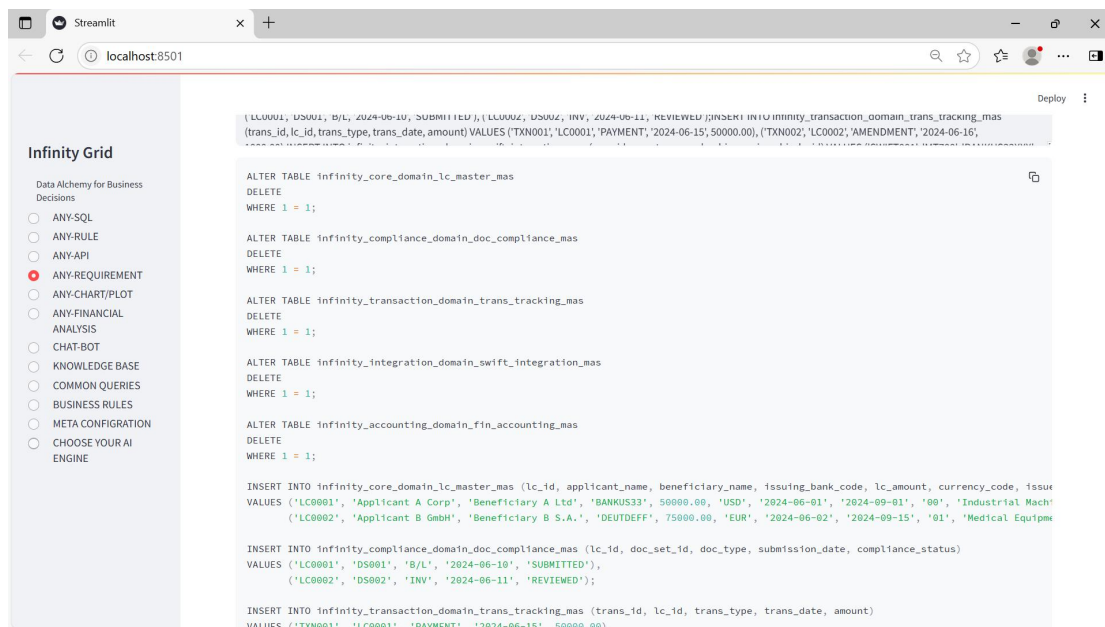
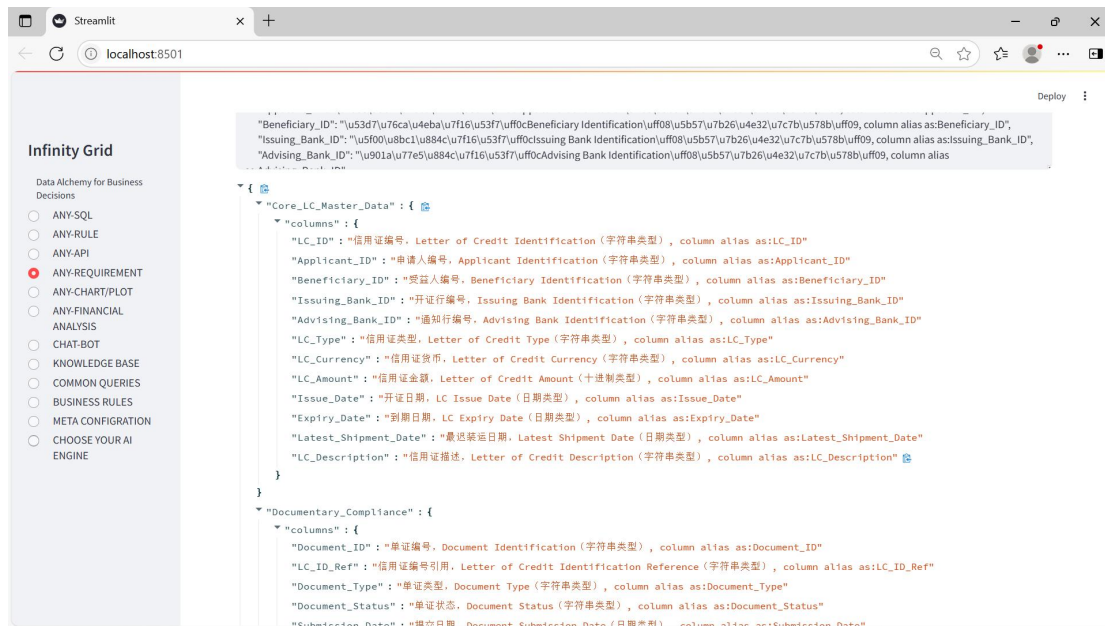
```
classDiagram
    class infinity_core_domain_lc_master_mas {
        lc_id : String
        applicant_name : String
        beneficiary_name : String
        issuing_bank_code : String
        lc_amount : Decimal(18, 2)
        currency_code : String
        issue_date : Date
        expiry_date : Date
        status : String
        goods_description : String
    }
    class infinity_compliance_domain_doc_compliance_mas {
        lc_id : String
        doc_set_id : String
        doc_type : String
        submission_date : Date
        compliance_status : String
    }
    class infinity_transaction_domain_trans_tracking_mas {
        trans_id : String
        lc_id : String
        trans_type : String
        trans_date : Date
        amount : Decimal(18, 2)
    }
    class infinity_integration_domain_swift_integration_mas {
        msg_id : String
        msg_type : String
        sender_bic : String
        receiver_bic : String
        lc_id : String
    }
    class infinity_accounting_domain_fn_accounting_mas {
        acc_entry_id : String
        lc_id : String
        entry_date : Date
        debit_amount : Decimal(18, 2)
        credit_amount : Decimal(18, 2)
    }
    infinity_core_domain_lc_master_mas --> infinity_compliance_domain_doc_compliance_mas : contains
    infinity_core_domain_lc_master_mas --> infinity_transaction_domain_trans_tracking_mas : contains
    infinity_core_domain_lc_master_mas --> infinity_integration_domain_swift_integration_mas : contains
    infinity_core_domain_lc_master_mas --> infinity_accounting_domain_fn_accounting_mas : contains
```

Previous

Generate Code and Next

Next

Design Wizard - Transform requirements into implementation artifacts



The design and concept of Infinity Grid

Infinity Grid

	Question	RAG	Prompts	Knowledge Base	LLM Agent	Work Flow Engine	Quantified Analysis
SQL							
Rules							
Plot							
Quantified Analysis							
Any							

Gitee URL

Quantified Analysis framework	https://gitee.com/snetlogon20/data-integrator
LLM Agent	https://gitee.com/snetlogon20/data-integrator/tree/master/LLMSuport