

A brief Introduction of Infinity Grid

Infinity Grid 是一个开源的大语言模型 Agent。其主要功能是对金融量化工具提供大语言模型的支持。Infinity 可以作为一个插件对传统金融行业提供了对包括了对固定收益、股票、衍生品等各类金融模型的量化计算。

功能一： 人类语言翻译为 SQL 查询并完成量化分析

The screenshot shows the Infinity Grid application running on Streamlit. The interface includes a sidebar with navigation options and a main content area. The user's query is displayed in a text box, and the application has generated a detailed SQL query to retrieve and analyze the requested data.

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

Tell me/你的问题:

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 同期上海银行间同业拆放利率中的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

Go/查询

Explanation:

This query aims to retrieve the daily percentage change (pct_change) and closing price (close_point) of Citibank between June 2, 2024, and December 31, 2024. It also compares the overnight yield of the Shanghai Interbank Offered Rate (Shibor), the return rate and price of Guomai Technology in Chinese stocks, the yields of 1-month, 3-month, 3-year, and 10-year U.S. Treasury Yield Curves, and the bid closing price of the USD/CNY exchange rate in the foreign exchange market during the same period. All data is sorted by trade date, with zero values excluded./20246220241231pct_changeclose_point133100

SQL Statement:

```
SELECT df_sys_calendar.trade_date AS df_sys_calendar__trade_date,
df_tushare_us_stock_daily.pct_change AS df_tushare_us_stock_daily__pct_change,
df_tushare_us_stock_daily.close_point AS df_tushare_us_stock_daily__close_point,
df_tushare_cn_index_daily.pct_chg AS df_tushare_cn_index_daily__pct_chg,
df_tushare_cn_index_daily.close AS df_tushare_cn_index_daily__close,
df_tushare_us_treasury_yield_curve.m1 AS df_tushare_us_treasury_yield_curve__m1,
df_tushare_us_treasury_yield_curve.m3 AS df_tushare_us_treasury_yield_curve__m3,
df_tushare_us_treasury_yield_curve.y3 AS df_tushare_us_treasury_yield_curve__y3,
df_tushare_us_treasury_yield_curve.y10 AS df_tushare_us_treasury_yield_curve__y10,
df_tushare_fx_daily.bid_close AS df_tushare_fx_daily__bid_close
FROM df_sys_calendar
LEFT JOIN df_tushare_us_stock_daily ON df_sys_calendar.trade_date = df_tushare_us_stock_daily.trade_date
```

The screenshot shows the Infinity Grid application displaying the SQL query and its results. The results are presented in a table format, showing the trade date and the corresponding pct_change values for the specified period.

Infinity Grid

Data Alchemy for Business Decisions

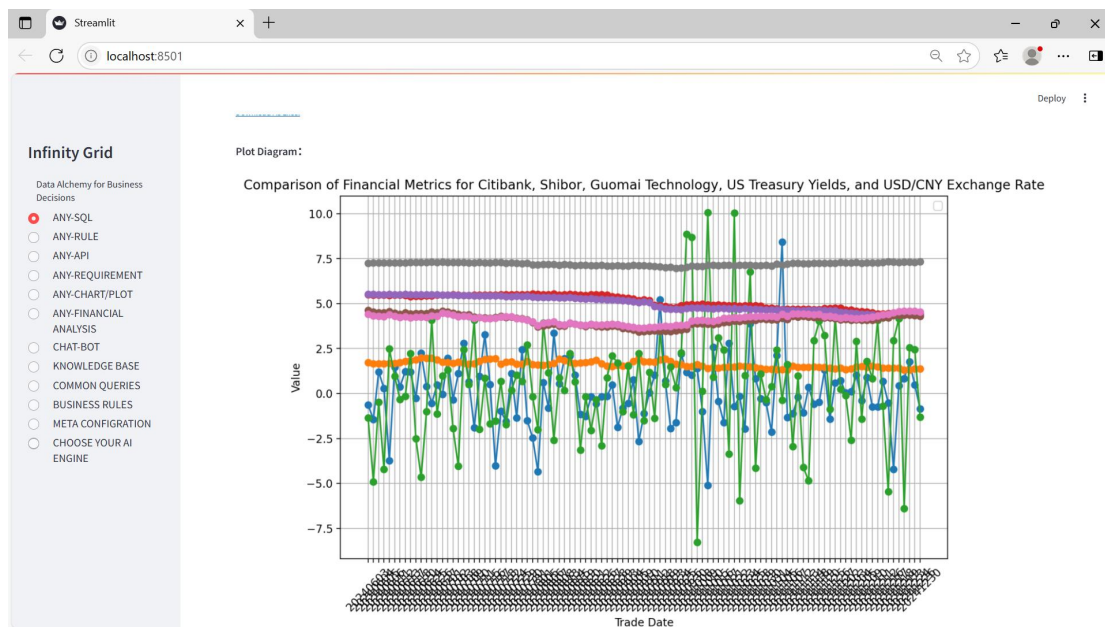
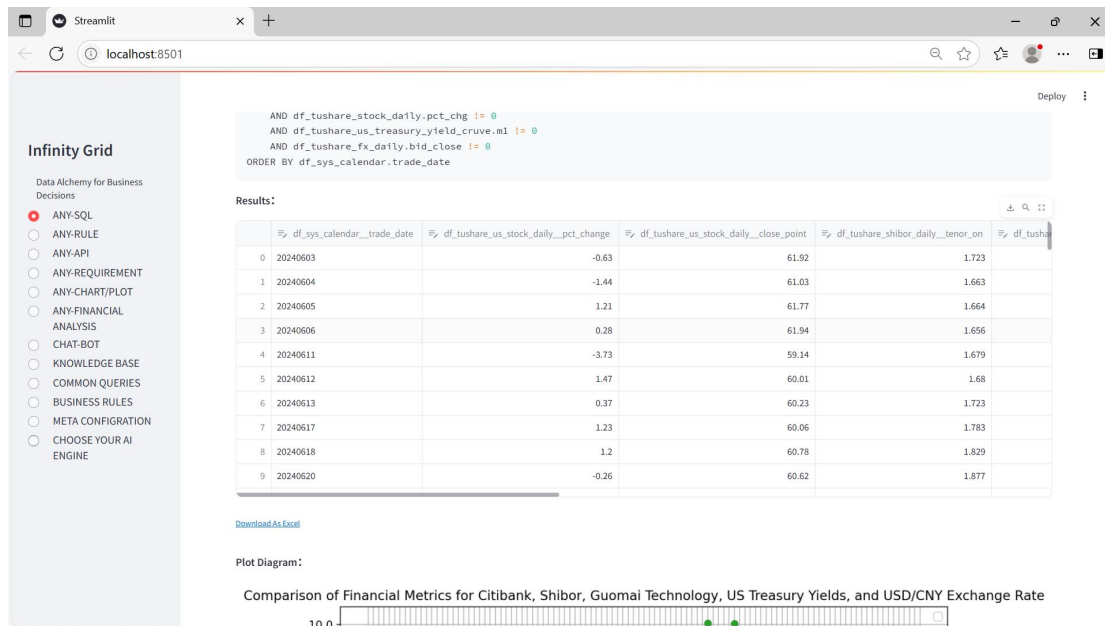
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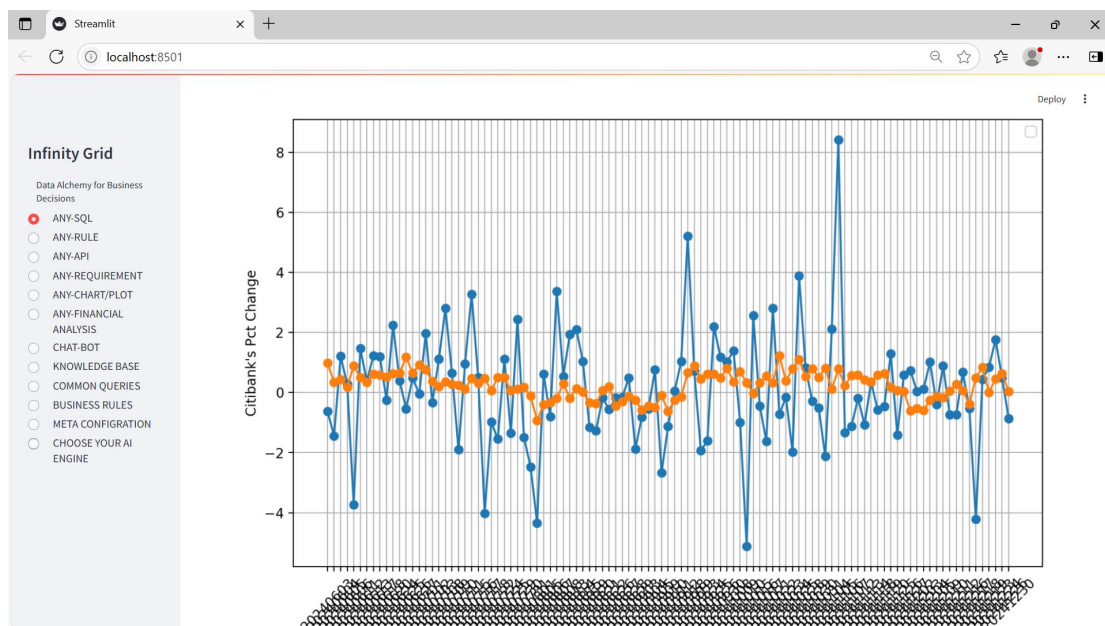
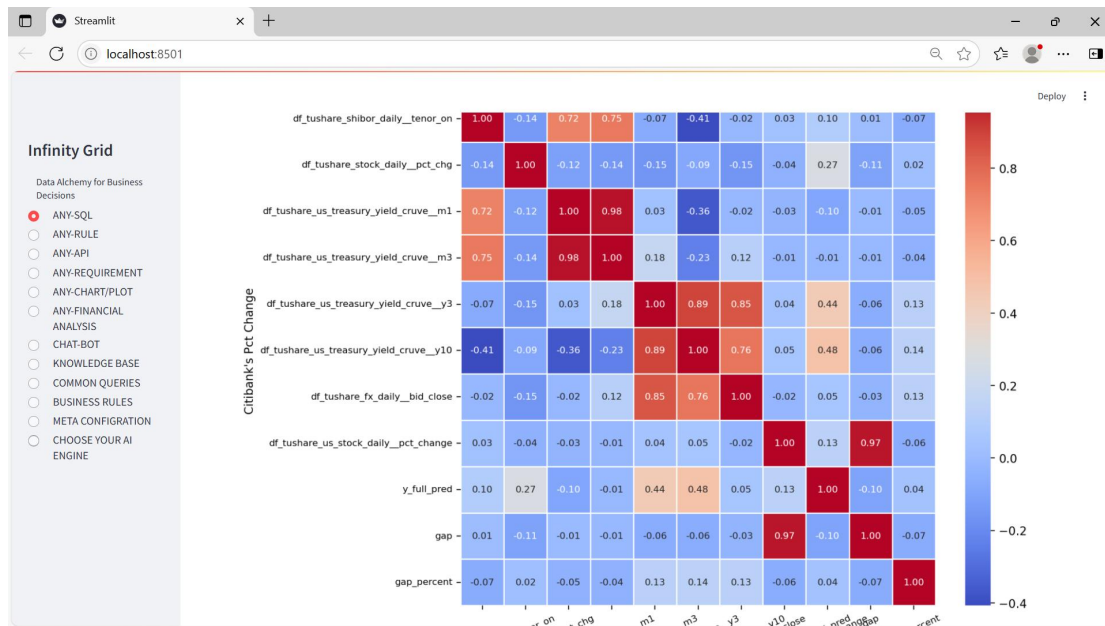
SQL Statement:

```
SELECT df_sys_calendar.trade_date AS df_sys_calendar__trade_date,
df_tushare_us_stock_daily.pct_change AS df_tushare_us_stock_daily__pct_change,
df_tushare_us_stock_daily.close_point AS df_tushare_us_stock_daily__close_point,
df_tushare_cn_index_daily.pct_chg AS df_tushare_cn_index_daily__pct_chg,
df_tushare_cn_index_daily.close AS df_tushare_cn_index_daily__close,
df_tushare_us_treasury_yield_curve.m1 AS df_tushare_us_treasury_yield_curve__m1,
df_tushare_us_treasury_yield_curve.m3 AS df_tushare_us_treasury_yield_curve__m3,
df_tushare_us_treasury_yield_curve.y3 AS df_tushare_us_treasury_yield_curve__y3,
df_tushare_us_treasury_yield_curve.y10 AS df_tushare_us_treasury_yield_curve__y10,
df_tushare_fx_daily.bid_close AS df_tushare_fx_daily__bid_close
FROM df_sys_calendar
LEFT JOIN df_tushare_us_stock_daily ON df_sys_calendar.trade_date = df_tushare_us_stock_daily.trade_date
AND df_tushare_us_stock_daily.ts_code = 'C'
LEFT JOIN df_tushare_cn_index_daily ON df_sys_calendar.trade_date = df_tushare_cn_index_daily.trade_date
AND df_tushare_cn_index_daily.ts_code = '002093.SZ'
LEFT JOIN df_tushare_us_treasury_yield_curve ON df_sys_calendar.trade_date = df_tushare_us_treasury_yield_curve.trade_date
LEFT JOIN df_tushare_fx_daily ON df_sys_calendar.trade_date = df_tushare_fx_daily.trade_date
AND df_tushare_fx_daily.ts_code = 'USDCNH.FXCNH'
WHERE df_sys_calendar.trade_date BETWEEN '20240602' AND '20241231'
AND df_tushare_us_stock_daily.pct_change != 0
AND df_tushare_cn_index_daily.pct_chg != 0
AND df_tushare_us_treasury_yield_curve.m1 != 0
AND df_tushare_us_treasury_yield_curve.m3 != 0
AND df_tushare_us_treasury_yield_curve.y3 != 0
AND df_tushare_us_treasury_yield_curve.y10 != 0
AND df_tushare_fx_daily.bid_close != 0
ORDER BY df_sys_calendar.trade_date
```

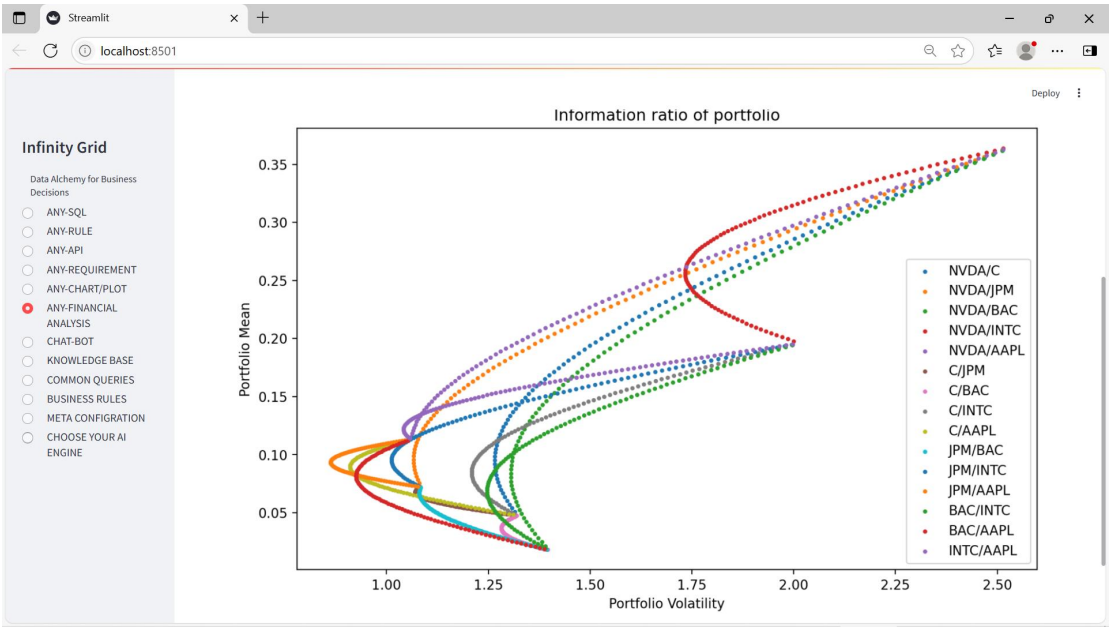
Results:

df_sys_calendar__trade_date	df_tushare_us_stock_daily__pct_change
2024-06-02	0.0012
2024-06-03	0.0015
2024-06-04	0.0018
2024-06-05	0.0021
2024-06-06	0.0024
2024-06-07	0.0027
2024-06-08	0.0030
2024-06-09	0.0033
2024-06-10	0.0036
2024-06-11	0.0039
2024-06-12	0.0042
2024-06-13	0.0045
2024-06-14	0.0048
2024-06-15	0.0051
2024-06-16	0.0054
2024-06-17	0.0057
2024-06-18	0.0060
2024-06-19	0.0063
2024-06-20	0.0066
2024-06-21	0.0069
2024-06-22	0.0072
2024-06-23	0.0075
2024-06-24	0.0078
2024-06-25	0.0081
2024-06-26	0.0084
2024-06-27	0.0087
2024-06-28	0.0090
2024-06-29	0.0093
2024-06-30	0.0096
2024-07-01	0.0099
2024-07-02	0.0102
2024-07-03	0.0105
2024-07-04	0.0108
2024-07-05	0.0111
2024-07-06	0.0114
2024-07-07	0.0117
2024-07-08	0.0120
2024-07-09	0.0123
2024-07-10	0.0126
2024-07-11	0.0129
2024-07-12	0.0132
2024-07-13	0.0135
2024-07-14	0.0138
2024-07-15	0.0141
2024-07-16	0.0144
2024-07-17	0.0147
2024-07-18	0.0150
2024-07-19	0.0153
2024-07-20	0.0156
2024-07-21	0.0159
2024-07-22	0.0162
2024-07-23	0.0165
2024-07-24	0.0168
2024-07-25	0.0171
2024-07-26	0.0174
2024-07-27	0.0177
2024-07-28	0.0180
2024-07-29	0.0183
2024-07-30	0.0186
2024-07-31	0.0189
2024-08-01	0.0192
2024-08-02	0.0195
2024-08-03	0.0198
2024-08-04	0.0201
2024-08-05	0.0204
2024-08-06	0.0207
2024-08-07	0.0210
2024-08-08	0.0213
2024-08-09	0.0216
2024-08-10	0.0219
2024-08-11	0.0222
2024-08-12	0.0225
2024-08-13	0.0228
2024-08-14	0.0231
2024-08-15	0.0234
2024-08-16	0.0237
2024-08-17	0.0240
2024-08-18	0.0243
2024-08-19	0.0246
2024-08-20	0.0249
2024-08-21	0.0252
2024-08-22	0.0255
2024-08-23	0.0258
2024-08-24	0.0261
2024-08-25	0.0264
2024-08-26	0.0267
2024-08-27	0.0270
2024-08-28	0.0273
2024-08-29	0.0276
2024-08-30	0.0279
2024-08-31	0.0282
2024-09-01	0.0285
2024-09-02	0.0288
2024-09-03	0.0291
2024-09-04	0.0294
2024-09-05	0.0297
2024-09-06	0.0300
2024-09-07	0.0303
2024-09-08	0.0306
2024-09-09	0.0309
2024-09-10	0.0312
2024-09-11	0.0315
2024-09-12	0.0318
2024-09-13	0.0321
2024-09-14	0.0324
2024-09-15	0.0327
2024-09-16	0.0330
2024-09-17	0.0333
2024-09-18	0.0336
2024-09-19	0.0339
2024-09-20	0.0342
2024-09-21	0.0345
2024-09-22	0.0348
2024-09-23	0.0351
2024-09-24	0.0354
2024-09-25	0.0357
2024-09-26	0.0360
2024-09-27	0.0363
2024-09-28	0.0366
2024-09-29	0.0369
2024-09-30	0.0372
2024-10-01	0.0375
2024-10-02	0.0378
2024-10-03	0.0381
2024-10-04	0.0384
2024-10-05	0.0387
2024-10-06	0.0390
2024-10-07	0.0393
2024-10-08	0.0396
2024-10-09	0.0399
2024-10-10	0.0402
2024-10-11	0.0405
2024-10-12	0.0408
2024-10-13	0.0411
2024-10-14	0.0414
2024-10-15	0.0417
2024-10-16	0.0420
2024-10-17	0.0423
2024-10-18	0.0426
2024-10-19	0.0429
2024-10-20	0.0432
2024-10-21	0.0435
2024-10-22	0.0438
2024-10-23	0.0441
2024-10-24	0.0444
2024-10-25	0.0447
2024-10-26	0.0450
2024-10-27	0.0453
2024-10-28	0.0456
2024-10-29	0.0459
2024-10-30	0.0462
2024-10-31	0.0465
2024-11-01	0.0468
2024-11-02	0.0471
2024-11-03	0.0474
2024-11-04	0.0477
2024-11-05	0.0480
2024-11-06	0.0483
2024-11-07	0.0486
2024-11-08	0.0489
2024-11-09	0.0492
2024-11-10	0.0495
2024-11-11	0.0498
2024-11-12	0.0501
2024-11-13	0.0504
2024-11-14	0.0507
2024-11-15	0.0510
2024-11-16	0.0513
2024-11-17	0.0516
2024-11-18	0.0519
2024-11-19	0.0522
2024-11-20	0.0525
2024-11-21	0.0528
2024-11-22	0.0531
2024-11-23	0.0534
2024-11-24	0.0537
2024-11-25	0.0540
2024-11-26	0.0543
2024-11-27	0.0546
2024-11-28	0.0549
2024-11-29	0.0552
2024-11-30	0.0555
2024-12-01	0.0558
2024-12-02	0.0561
2024-12-03	0.0564
2024-12-04	0.0567
2024-12-05	0.0570
2024-12-06	0.0573
2024-12-07	0.0576
2024-12-08	0.0579
2024-12-09	0.0582
2024-12-10	0.0585
2024-12-11	0.0588
2024-12-12	0.0591
2024-12-13	0.0594
2024-12-14	0.0597
2024-12-15	0.0600
2024-12-16	0.0603
2024-12-17	0.0606
2024-12-18	0.0609
2024-12-19	0.0612
2024-12-20	0.0615
2024-12-21	0.0618
2024-12-22	0.0621
2024-12-23	0.0624
2024-12-24	0.0627
2024-12-25	0.0630
2024-12-26	0.0633
2024-12-27	0.0636
2024-12-28	0.0639
2024-12-29	0.0642
2024-12-30	0.0645
2024-12-31	0.0648

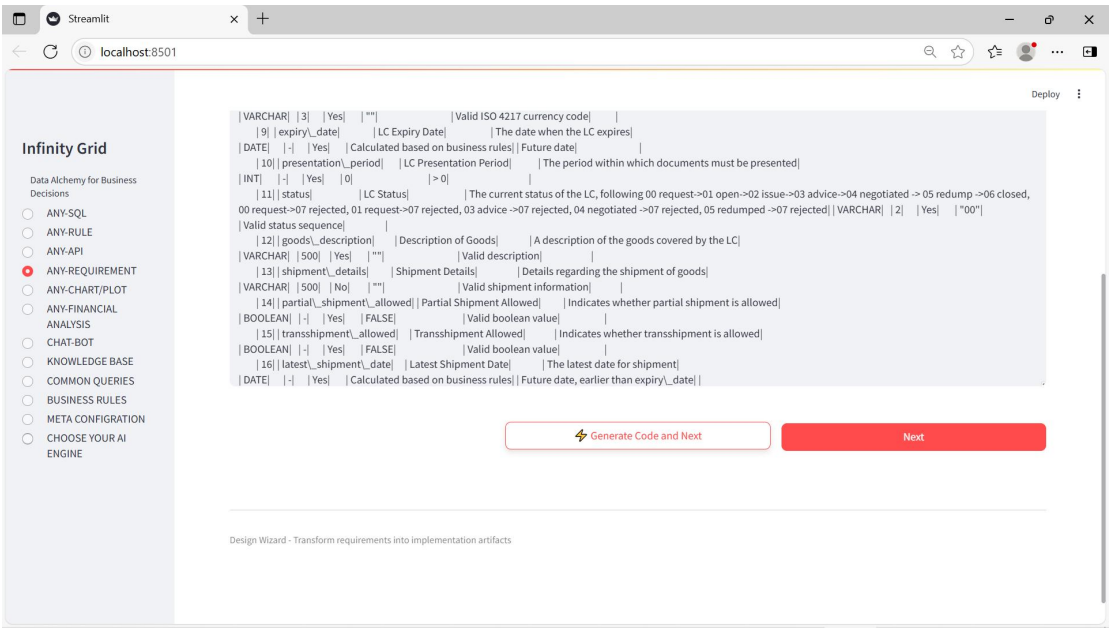
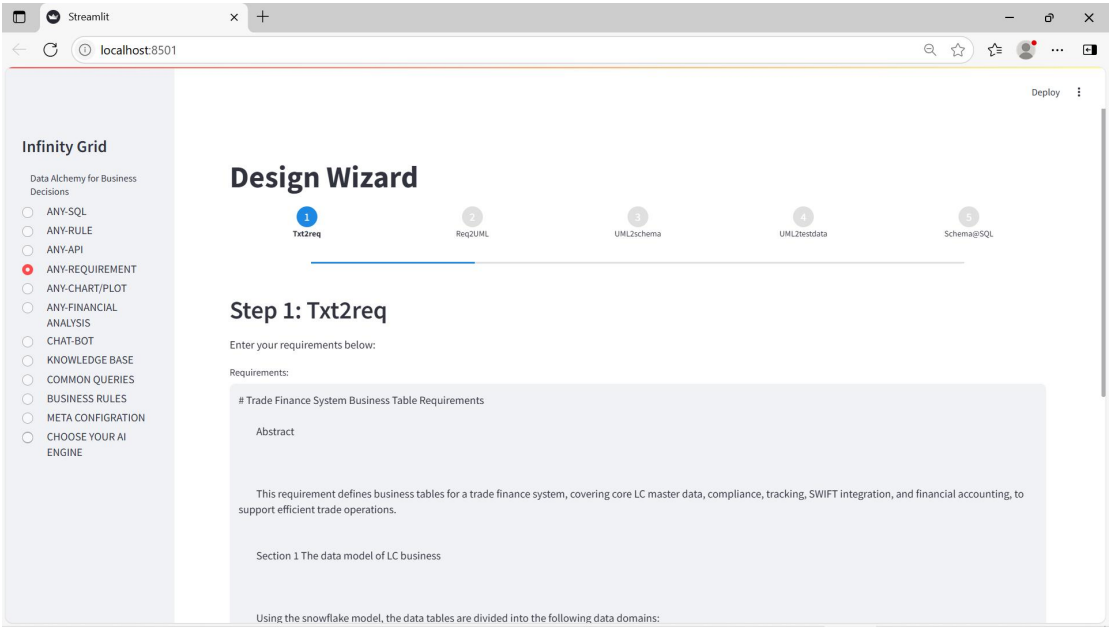




功能二： 金融产品量化分析



功能三： 人类语言翻译为需求并生成代码



Streamlit

localhost:8501

Infinity Grid

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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

Streamlit

localhost:8501

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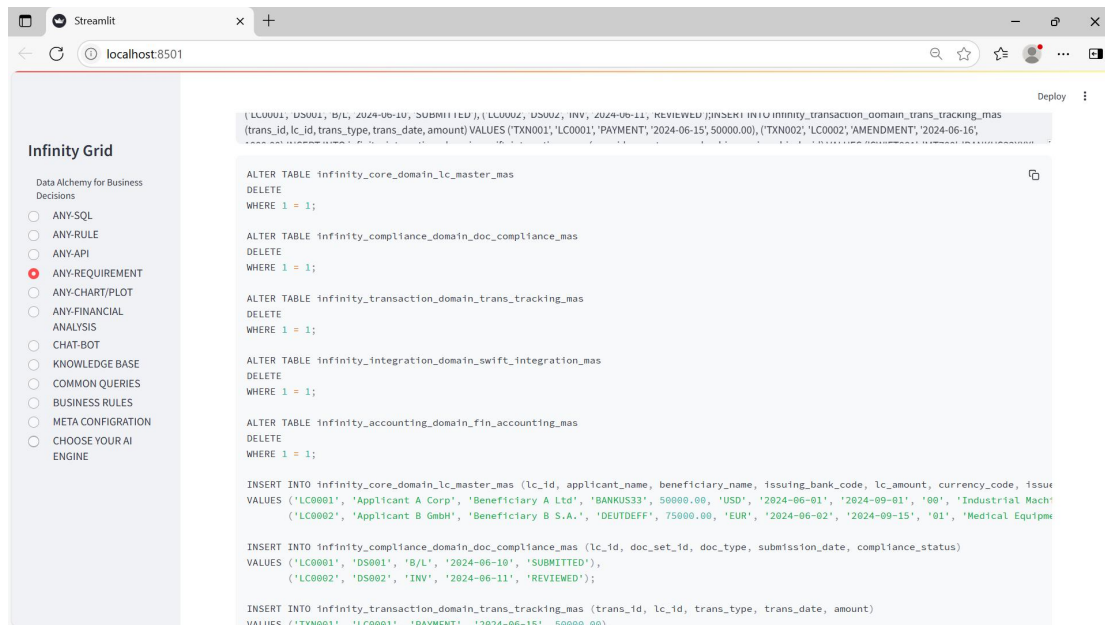
```
classDiagram
    class infinity_core_domain_lc_master_mas {
        lc_id : String
        applicant_name : String
        beneficiary_name : String
        issuing_bank_code : String
        lc_amount : Decimal(18, 2)
        currency_code : String
        issue_date : Date
        expiry_date : 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

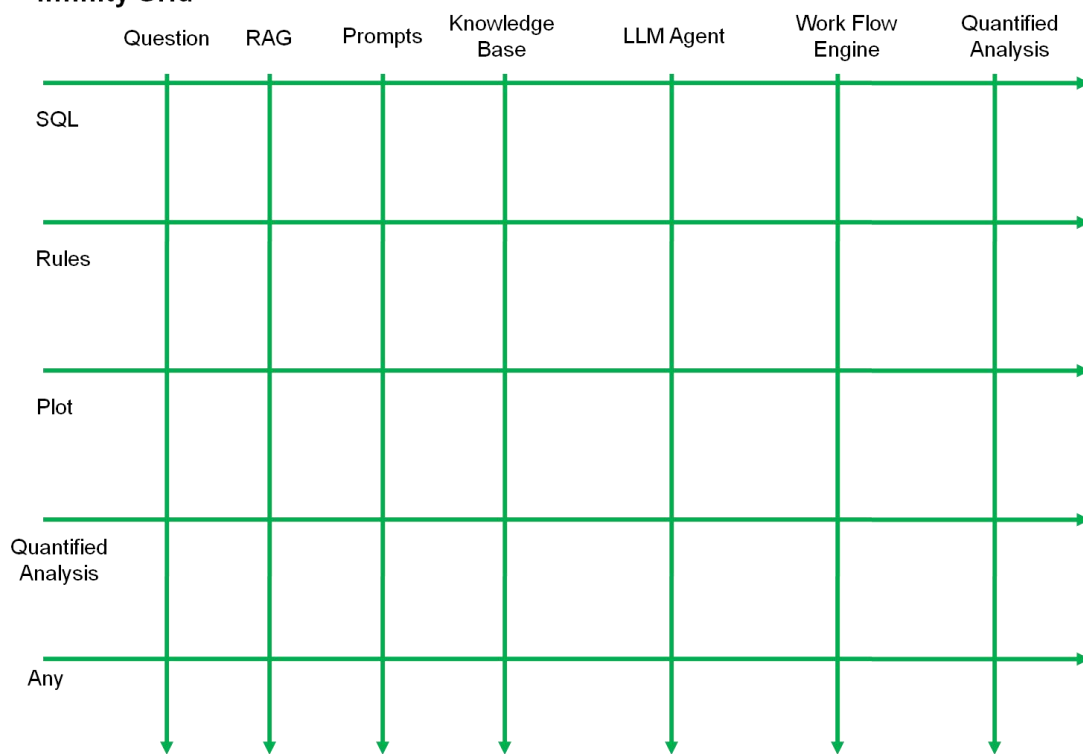
Next

Design Wizard - Transform requirements into implementation artifacts



核心理念

Infinity Grid



Gitee 地址

银行风险量化模型	https://gitee.com/snetlogon20/data-integrator
大语言模型 Agent	https://gitee.com/snetlogon20/data-integrator/tree/master/LLMSuport