



**EASY
QUERY**

Unleash the intuitive power of Web3 data query with LLM



EasyQuery Brief

- EasyQuery is a revolutionary product that enables users to effortlessly harness the intuitive power of Web3 data query through natural language.
- With its ability to extract data insights and facilitate native data utilization in dApps, EasyQuery is the ultimate tool for unlocking the full potential of Web3.
- EasyQuery is powered by KNN3 and OpenAI.



Problems to Solve

WEB3 DATA



Scattered data on cross
Chains/Platforms lacking
connectivity

Limited access to historical
data for smart contracts

TECHNICAL BARRIERS



High technical barriers for using
existing data tool platforms

BUSINESS INTELLIGENCE



Time consuming to create data
visualization and extract
business insights



BEFORE EasyQuery - Data Description

What data do I have?



What columns do I need to use?

☆ New Query Unpublished

tidb_lens

Search schema...

- lens_bak.lens_publication_mirror_view
- lens_bak.lens_publication_post_view
- lens_bak.lens_publication_view
- lens_bak.openai_image_request_param...
- lens_bak.openai_nlp_request_paramet...
- lens_bak.openai_prompt_sql_pairs
- lens_bak.polygon_lens_campaign_score
- lens_bak.polygon_lens_collect
- lens_bak.polygon_lens_collectNFT
- lens_bak.polygon_lens_collect_fee_det...
- lens_bak.polygon_lens_collect_fee_sts
- lens_bak.polygon_lens_collect_sts
- lens_bak.polygon_lens_collector_score
- lens_bak.polygon_lens_content
- lens_bak.polygon_lens_creator_score
- lens_bak.polygon_lens_curator_score
- lens_bak.polygon_lens_engager_score

```
1 desc lens_bak.polygon_lens_collect
```

LIMIT 1000

Table + Add Visualization

Field	Type	Null
collector	varchar(255)	YES
profileid	bigint(20)	YES

Write some SQL to explore



BEFORE EasyQuery - Data Query

Ahhh, how to join two tables?



BUG AGAIN!!!

The screenshot shows a Stack Overflow question page. The title is "sql join two table". The question text is: "Can anyone show me how to write a query and fetch the result as above, Thanks very much! i have tried join, left and right join. all result nothing." The question has 11 votes and was asked 11 years ago. The answer shows two tables and their join result.

```
TABLE A >>
uid name
1 test1
2 test2
3 test3
4 test4

TABLE B >>
uid address
1 address1
2 address2
4 address3

RESULT
1 test1 address1
2 test2 address2
3 test3
4 test4 address3
```

Let me Google it.

Stackoverflow seems to have an answer.



BEFORE EasyQuery - Data Insights

I need to visualize the data.

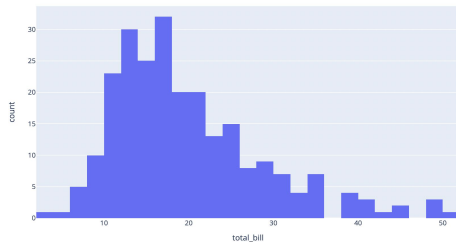
Does the data show any trend?



Python?

Maybe some BI tools?

```
import plotly.express as px
df = pd.data.tips()
fig = px.histogram(df, x="total_bill")
fig.show()
```



Wait!

Let me introduce
EasyQuery!

A platform makes
your life easier! 

**Unleash the
Intuitive Power of
Web3 Data Query with LLM**
Powered by KNN3 and OpenAI



Connect Your Wallet

Connect with one of our available wallet providers or
create a new one.

Connect Wallet



We translate it into SQL for you!

“Welcome to Easy Query! Please describe the data you want.”

Give me the top posts by stani in the past month

Show me the top 5 posters on lens stani posts about lending

Give me the most recent comments by the user fortunetrees

stani's posts, mirrors, comments over past month by day →

Just say what data you want here!

SQL

```
SELECT DATE(timestamp) AS day, COUNT(CASE WHEN type = 'Post' THEN 1 END) AS posts, COUNT(CASE WHEN type = 'Mirror' THEN 1 END) AS mirrors, COUNT(CASE WHEN type = 'Comment' THEN 1 END) AS comments
FROM publications
WHERE user_name = 'stani'
AND timestamp > (NOW() - INTERVAL '1 month')
GROUP BY day
ORDER BY day DESC
```

Save

Run

Cancel

Here is your Result

day	posts	mirrors	comments
2023-03-31T00:00:00.000Z	6	8	9





We display data as table!

25T00:00:00.000Z	4	17	18
2023-02-24T00:00:00.000Z	5	9	16
2023-02-23T00:00:00.000Z	8	14	26
2023-02-22T00:00:00.000Z	1	8	15

BI "Please chat to generate data insights."

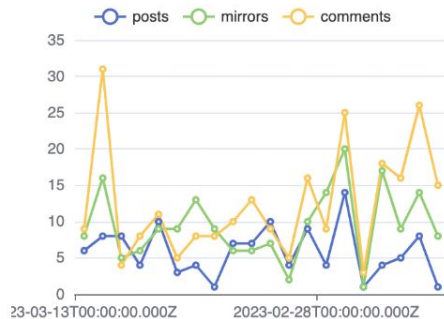
please tell me the trend of the data

what information does the data tell me?

Something for me to write



Chat to regenerate insights!



The data shows that the user's activity on Lens varied from day to day with no clear overall trend. The number of posts, mirrors, and comments fluctuated throughout the 20-day period, with some days showing higher activity levels than others. However, there were some peaks in activity on days such as February 15th and February 27th.

Visualization and insights generated for you automatically!





Core Functions

Write SQL Query

01

Describe the data you want in natural language

Visualize and analyze the data manually

02

Visualize and analyze the data with prepared templates

Time consuming to extract data insights

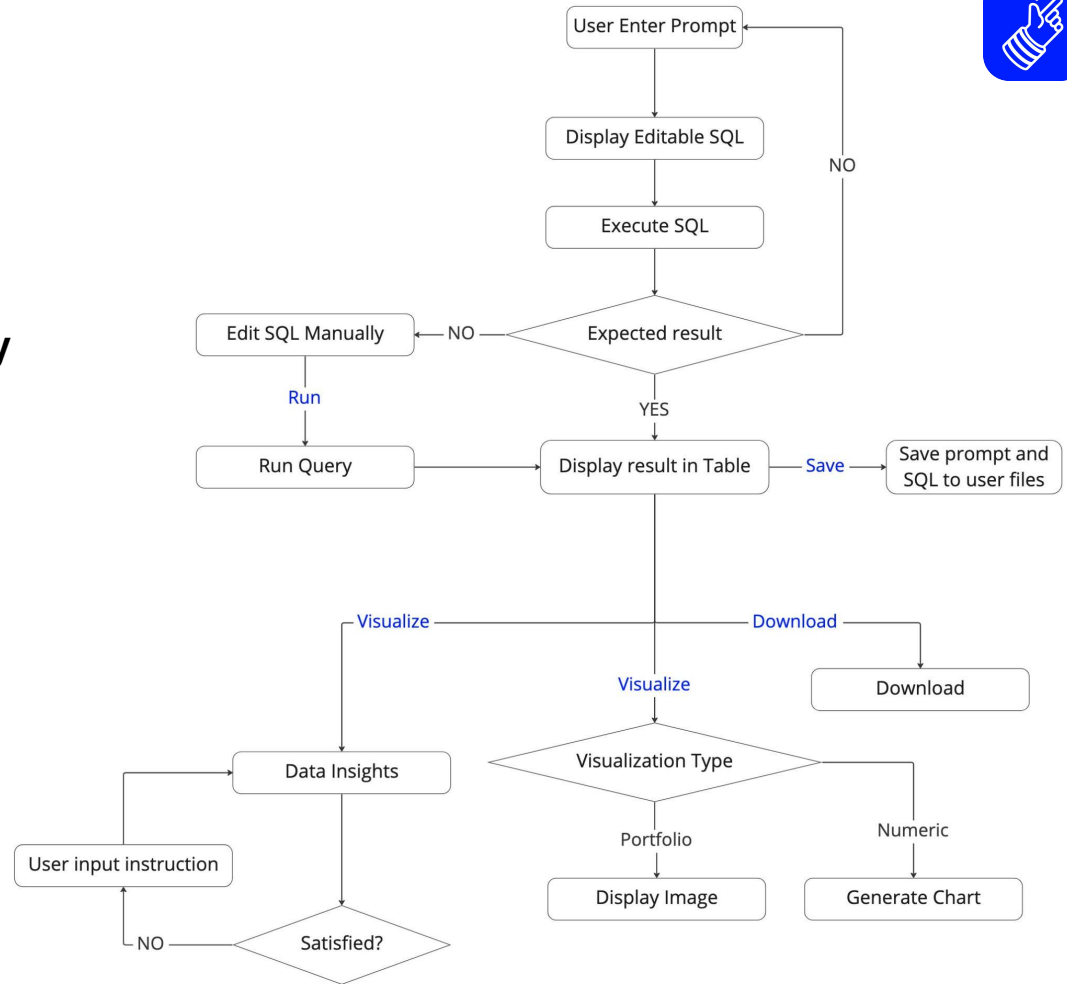
03

Data deep dive and insight extraction with OpenAI



Flowchart

1. User enter prompt
2. Generate SQL and execute query
3. Save/update prompt and SQL
4. Data delivery
 - a. Visualization
 - b. Data insights
 - c. Download





Tech Specifications



1

KNN3 Data Services

- Indexed and structured on-chain and off-chain data stored in data warehouse
- Stable and flexible database services

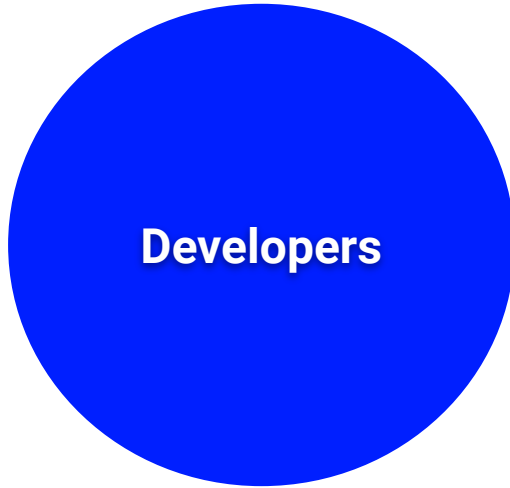
2

OpenAI

- Text to scripts
- Data to insights
- Prompt management



Target User



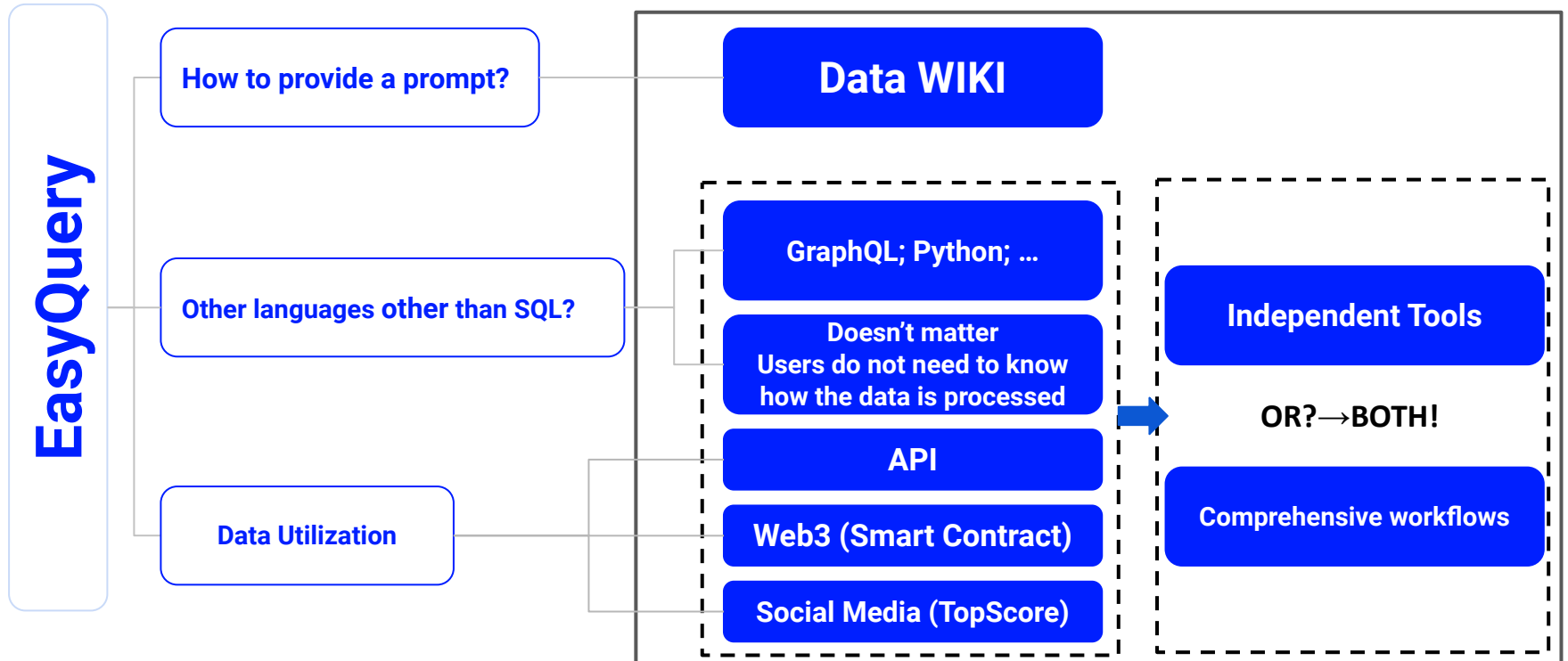
- ❖ Social dApp data/algorithm developers
- ❖ Smart contract developers



- ❖ Individual interested in Web3 data with little coding experience



Beyond EasyQuery



Further Implementation

1

Data Delivery

- Constructed API
- Constructed SDK

2

Sharing

- Chart visualizations and data insights as posts
- Social media platforms: Lenster, Twitter

3

More than SQL

- Data processing scripts
- Workflows



Thanks

Bruce Yao - Lead creative & designer

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Brent - Backend & AI agents designer

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