

Financial Risk Analytics Engine



[mayahbosworth/sql-project](#)

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[mayahbosworth/sql-project](#)

Contribute to mayahbosworth/sql-project development by creating an account on GitHub.

[GitHub](#)

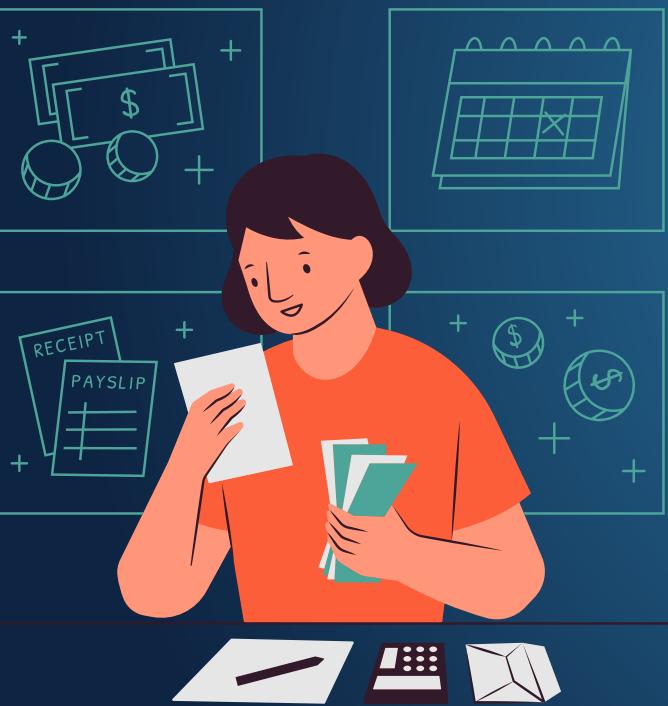
A Solution for Analysts and Financial Professionals

What?



Extract insights
from financial data

How?



Utilize SQL queries
on API and web
scraped data

Junior Data Engineer

Responsibilities:

- Participate in the construction of distributed data processing systems and data lakes, honing your skills on AWS Databricks.
- Work closely with researchers, product, and business development to identify, analyze, and operationalize novel datasets.
- Assist in crafting data pipelines and workflow orchestration to provide tailored data exports to our clients.
- Contribute to the architecture and scalability of cutting-edge machine learning systems that power Kharon's suite of data products.
- Engage in cloud-based data management projects involving data lake-houses and a variety of SQL/NoSQL/temporal and graph-based database systems.
- Assist in monitoring and maintenance of the data systems and services you help to develop.

**Key Financial
Metrics Analysis**

**Data
Visualization**

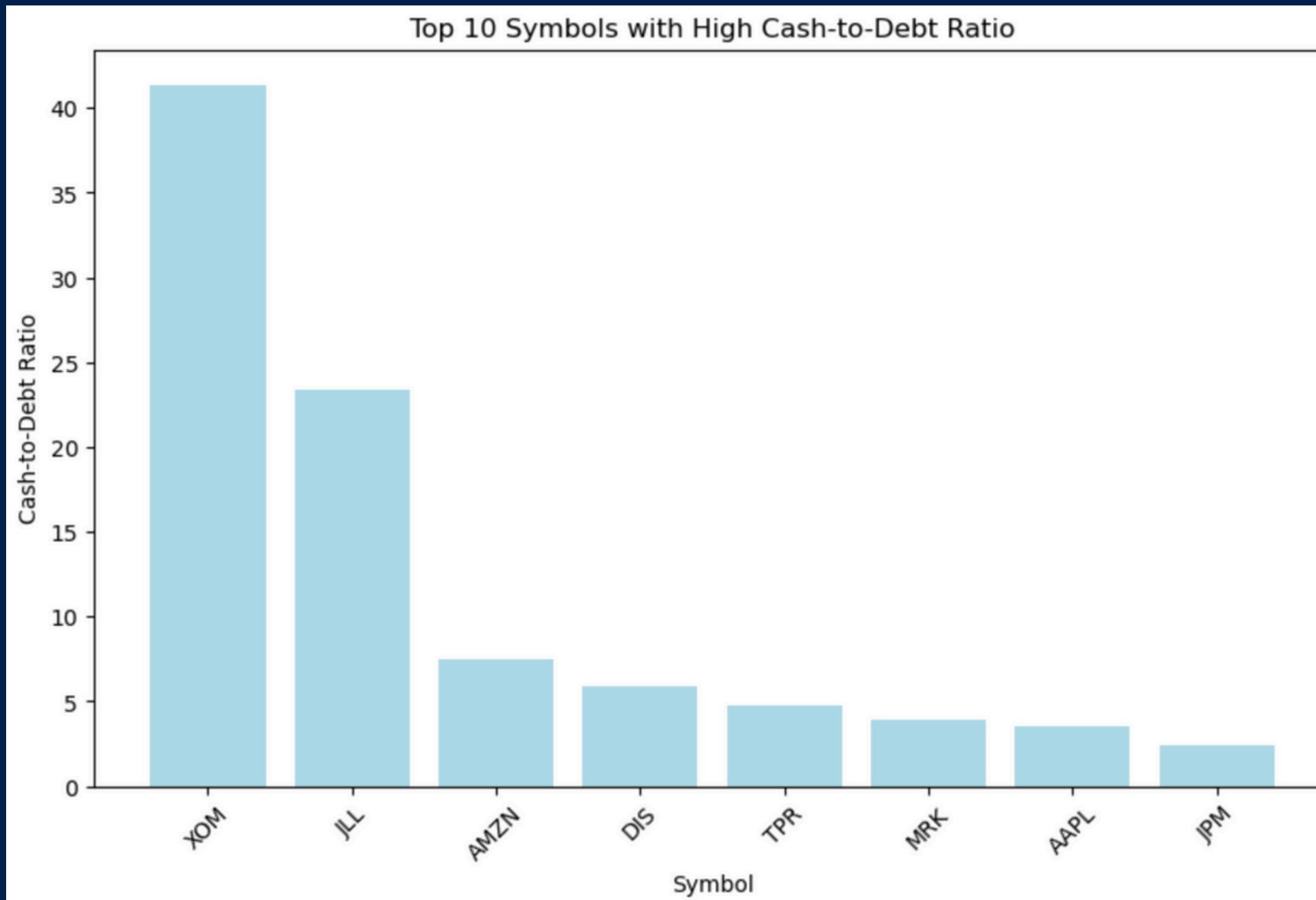
**Decision
Support**

Qualifications:

- **1-2 years of experience in software engineering or data engineering**
- Familiarity with any of the following programming languages: Python, Scala, Golang, Java, C++, NodeJS.
- Basic SQL knowledge and a general understanding of relational databases.
- Familiarity with web crawling and scraping
- Familiarity with data wrangling, cleaning, and transformations

What companies have high cash-to-debt ratios?

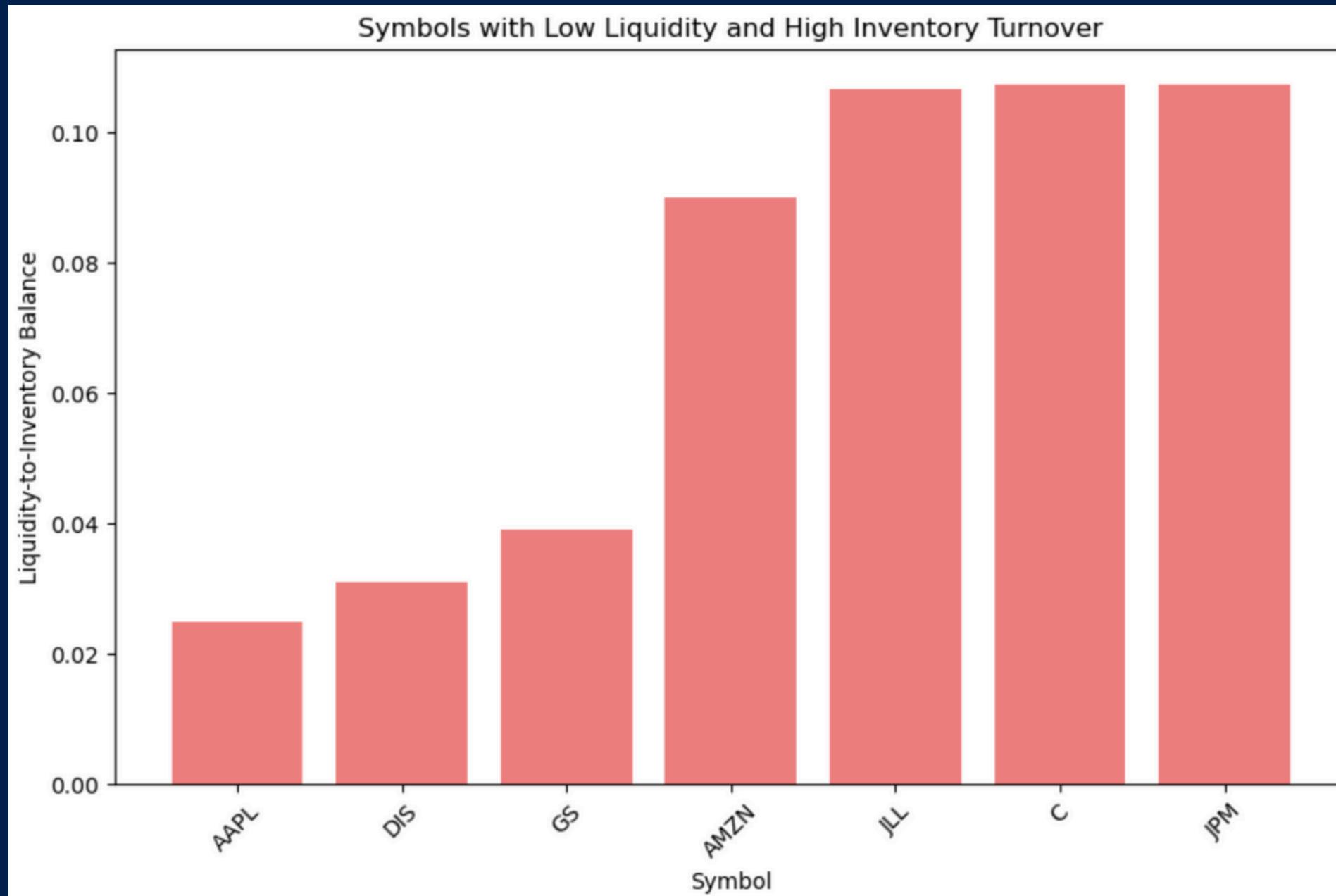
- XOM has the highest ratio at 41.37



- XOM should maintain prudent financial management
- Investors monitor companies' liquidity positions

Can we explore symbols with low liquidity and high inventory turnover?

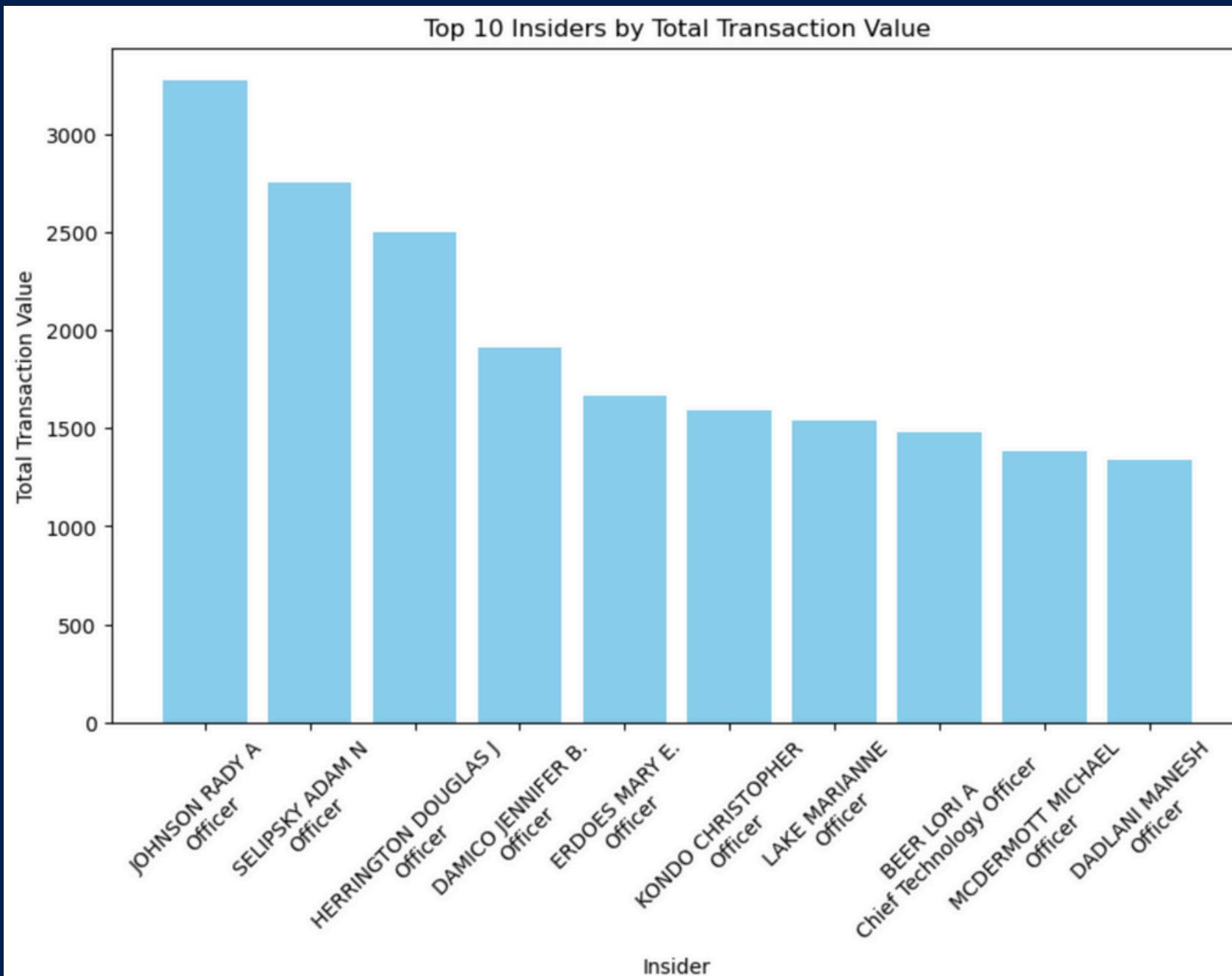
- AAPL has a **liquidity-to-inventory balance** of **0.024**.



- AAPL should optimize inventory management
- AAPL may experience improved liquidity

Who are the top insiders based on the value of their transactions?

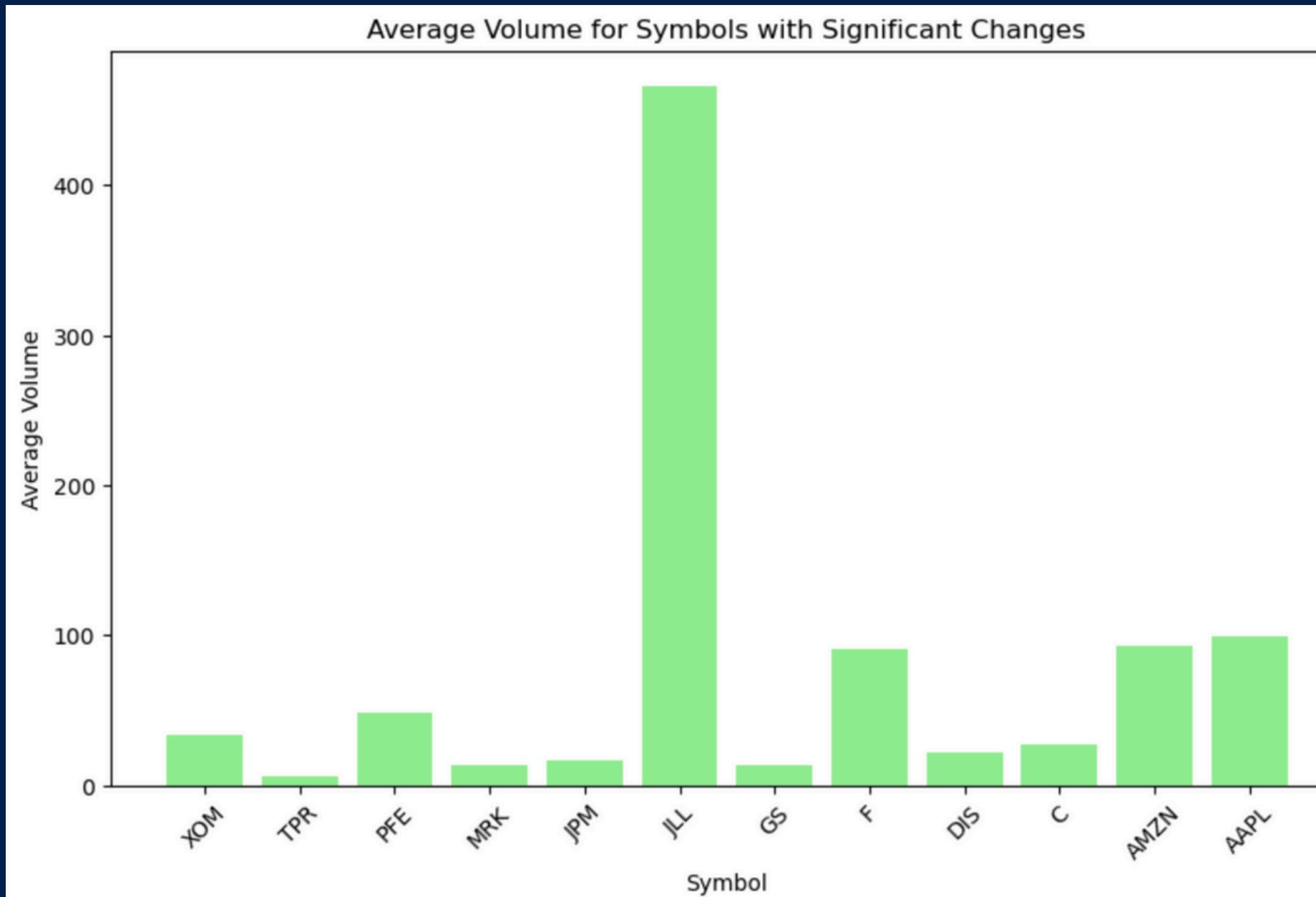
- Officers' transaction patterns vary



- Assess top 5 insiders
- Determine if insider trades precede stock movements

What companies have significant trading volume changes?

- JLL suspiciously high
- Error in collected data?



- Analyze factors, strengthen monitoring
- Continued volatility, increased scrutiny

Retrospective

