

dbt_lab_report_executed

December 1, 2025

[]:

```
[1]: print("""
**Data Collection Method:**
I collected stock market data using web scraping from two sources:
- Wall Street Journal (WSJ) Gainers
- Yahoo Finance (Yahoo) Gainers

Data was collected at multiple timestamps throughout the day using automated_
↳scripts.

**Number of Tables:** 16 tables total
- 3 WSJ Gainers tables
- 13 Yahoo Gainers tables

**Database:** DS2508
**Schema:** KHB9GD
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**Entity Relationship Diagram:**
```

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Source Tables (16 total)
WSJGAINERS_* (3 tables)
YGAINERS_* (13 tables)
(Many records with symbols)
```

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UNION ALL +
GROUP BY symbol
COUNT records
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UNIQUE_SYMS
(Symbol + Record Count)
552 unique stock symbols
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**GitHub Repository Link:**
https://github.com/CodeStriker10/2508_DS5111_khb9gd/blob/mo10_dbt_model/
    ↪my_dbt_project/myfirstproject/models/example/unique_syms.sql

**SQL Code:**
```sql
```

```

{{ config(
 materialized='table'
) }}

SELECT
 symbol,
 COUNT(*) as record_count
FROM (
 SELECT REGEXP_SUBSTR(INDEX_1, '\\\\\\\\([A-Z]+\\\\\\\\\\\\\\)', 1, 1, 'e', 1) AS symbol
 FROM DS2508.KHB9GD.WSJGAINERS_20251112_093123
 UNION ALL
 SELECT REGEXP_SUBSTR(INDEX_1, '\\\\\\\\([A-Z]+\\\\\\\\\\\\\\)', 1, 1, 'e', 1) AS symbol
 FROM DS2508.KHB9GD.WSJGAINERS_20251113_160129
 UNION ALL
 SELECT REGEXP_SUBSTR(INDEX_1, '\\\\\\\\([A-Z]+\\\\\\\\\\\\\\)', 1, 1, 'e', 1) AS symbol
 FROM DS2508.KHB9GD.WSJGAINERS_20251114_093130
 UNION ALL
 SELECT SYMBOL FROM DS2508.KHB9GD.YGAINERS_20251112_123020
 UNION ALL
 SELECT SYMBOL FROM DS2508.KHB9GD.YGAINERS_20251112_160116
 UNION ALL
 SELECT SYMBOL FROM DS2508.KHB9GD.YGAINERS_20251113_093119
 UNION ALL
 SELECT SYMBOL FROM DS2508.KHB9GD.YGAINERS_20251113_123022
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 UNION ALL
 SELECT SYMBOL FROM DS2508.KHB9GD.YGAINERS_20251114_160117
 UNION ALL
 SELECT SYMBOL FROM DS2508.KHB9GD.YGAINERS_20251117_093125
 UNION ALL
 SELECT SYMBOL FROM DS2508.KHB9GD.YGAINERS_20251117_123025
 UNION ALL
 SELECT SYMBOL FROM DS2508.KHB9GD.YGAINERS_20251117_160119
)
WHERE symbol IS NOT NULL
GROUP BY symbol
ORDER BY record_count DESC, symbol
--
'''

```

**\*\*GitHub Repository Link:\*\***

[https://github.com/CodeStriker10/2508\\_DS5111\\_khb9gd/blob/mo10\\_dbt\\_model/my\\_dbt\\_p](https://github.com/CodeStriker10/2508_DS5111_khb9gd/blob/mo10_dbt_model/my_dbt_p)

roject/myfirstproject/models/example/unique\_syms.sql

**\*\*SQL Code:\*\***

```sql

```
{{ config(
    materialized='table'
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```

SELECT

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    symbol,
    COUNT(*) as record_count
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FROM (

```
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UNION ALL

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    SELECT SYMBOL FROM DS2508.KHB9GD.YGAINERS_20251112_123020
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```

)

WHERE symbol IS NOT NULL

GROUP BY symbol

ORDER BY record_count DESC, symbol

```

```
[4]: print("**Full Path to Result Table:**")
 print("DS2508.KHB9GD.UNIQUE_SYMS\n")
```

```
Full Path to Result Table:
DS2508.KHB9GD.UNIQUE_SYMS
```

```
[5]: import pandas as pd
 import matplotlib.pyplot as plt
 import matplotlib
 matplotlib.use('Agg')
```

```
[6]: df = pd.read_csv('unique_syms.csv')
```

```
[7]: print(f"**Total Unique Symbols:** {len(df)}")
 print(f"**Total Records Across All Tables:** {df['RECORD_COUNT'].sum()}\n")
```

```
Total Unique Symbols: 552
Total Records Across All Tables: 1171
```

```
[8]: top_20 = df.head(20)
```

```
[9]: print("**Top 10 Symbols by Record Count:**")
 print(top_20.head(10).to_string(index=False))
```

```
Top 10 Symbols by Record Count:
SYMBOL RECORD_COUNT
 MH 11
 ALB 10
 ONDS 8
 CNTA 7
 CSCO 7
 SNDK 7
 SEE 6
 PRAX 6
 NICE 6
 FLY 6
```

```
[10]: plt.figure(figsize=(14, 8))
 plt.barh(top_20['SYMBOL'], top_20['RECORD_COUNT'], color='steelblue')
 plt.xlabel('Number of Records', fontsize=12)
 plt.ylabel('Stock Symbol', fontsize=12)
 plt.title('Top 20 Stock Symbols by Record Count', fontsize=14,
 fontweight='bold')
 plt.gca().invert_yaxis()
 plt.grid(axis='x', alpha=0.3)
 plt.tight_layout()
 plt.savefig('symbol_histogram.png', dpi=150, bbox_inches='tight')
```

```
print("\n**Histogram saved as symbol_histogram.png**")
```

```
Histogram saved as symbol_histogram.png
```

```
[11]: from IPython.display import Image, display
display(Image('symbol_histogram.png'))
```

