Digital Research Alliance

of Canada



Resource & Data Collection Workshop

Kristina Cormier

Computer Science, Okanagan College

Collaborations with UBCO, UFV, and Langara College

Supervisor: Dr. Youry Khmelevsky

September 24, 2025















Land Acknowledgement

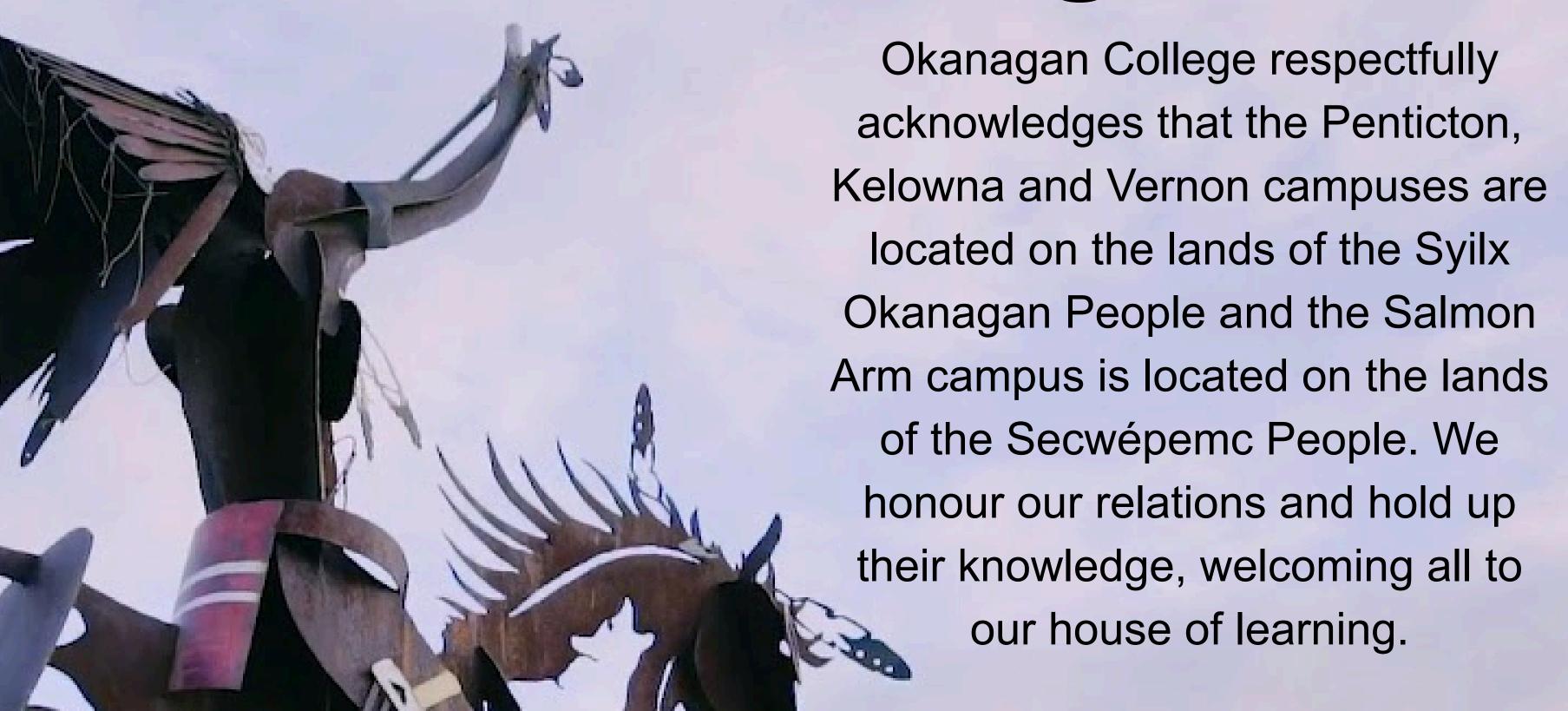


Photo Credit: https://www.thompsonokanagan.com/content/indigenous-experiences

Live Demonstration

https://www.alliancecan.ca/en

https://www.okanagan.bc.ca/science/computer-science/ourwork

https://ccdb.alliancecan.ca/



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English || Français Logged in as Kristina Cormier (CCI: Logout

Home My Account My Projects Resources Support Browse Townse Town

Account for Kristina Cormier (CCI:

- 1

Account Renewal

Thank you for completing the renewal requirements. Your account has been renewed.

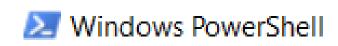
You may view or update your information at any time by visiting the account renewal page.

Active roles

CCRI:

Undergraduate Student, Okanagan College, Computer Science, renewed within the last 2 months last renewed on 2025-08-18 12:50:31 EDT -0400

Sponsored by Youry Khmelevsky: Faculty, Computer Science, Okanagan College



Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\kusha**> ssh** -J <username>@fir.alliancecan.ca -L 15432:cedar-pgsql-vm:5432 <username>@cedar.computecanada.ca



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- 1. Sign into DRAC
- 2. SSH using Powershell / Terminal
- 3. Approve Multifactor Authentication (MFA)

Approve sign-in request



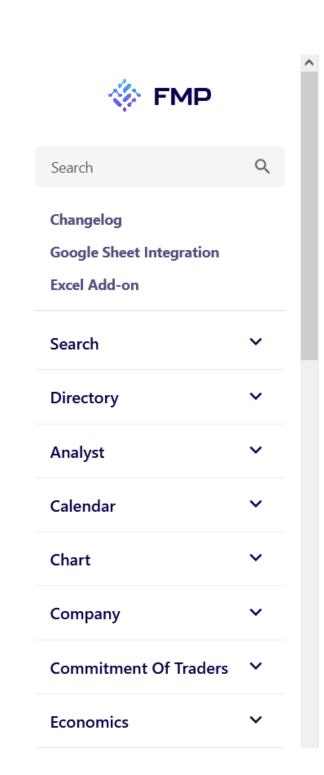
Open your duo mobile application and approve the login request to continue.

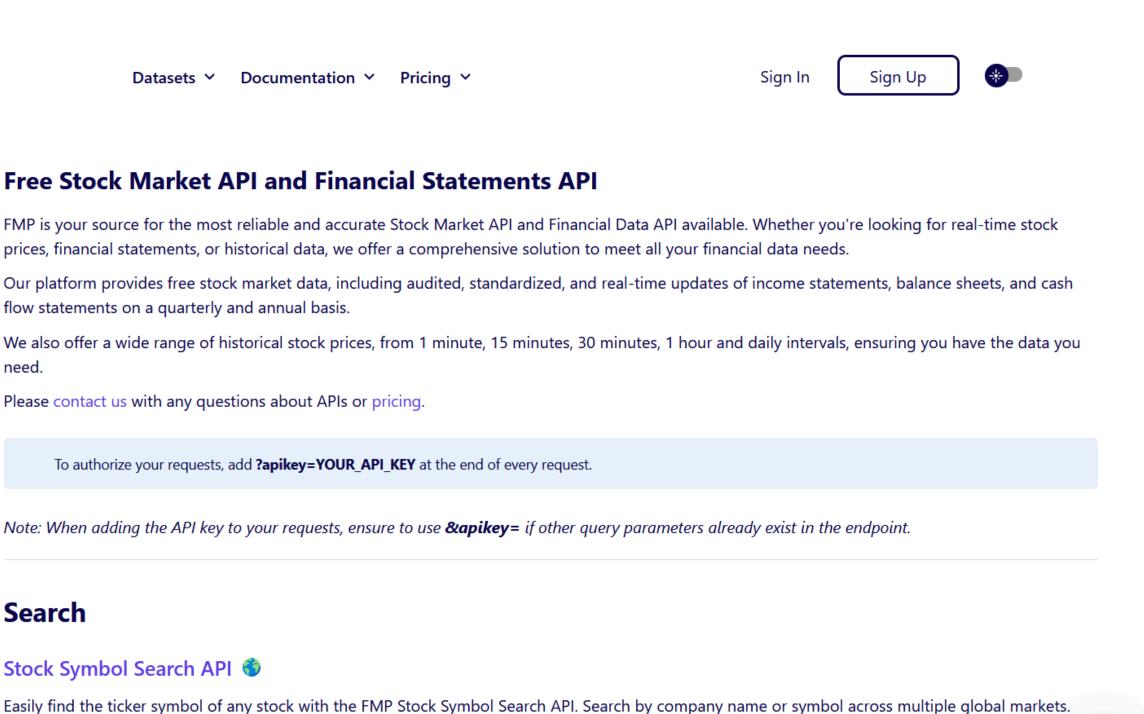
Problems signing in? Sign in a different way.

A push notification is a message that appears on your phone's home screen, even if the application isn't open. Once the notification has been received, click accept to automatically continue with the login.

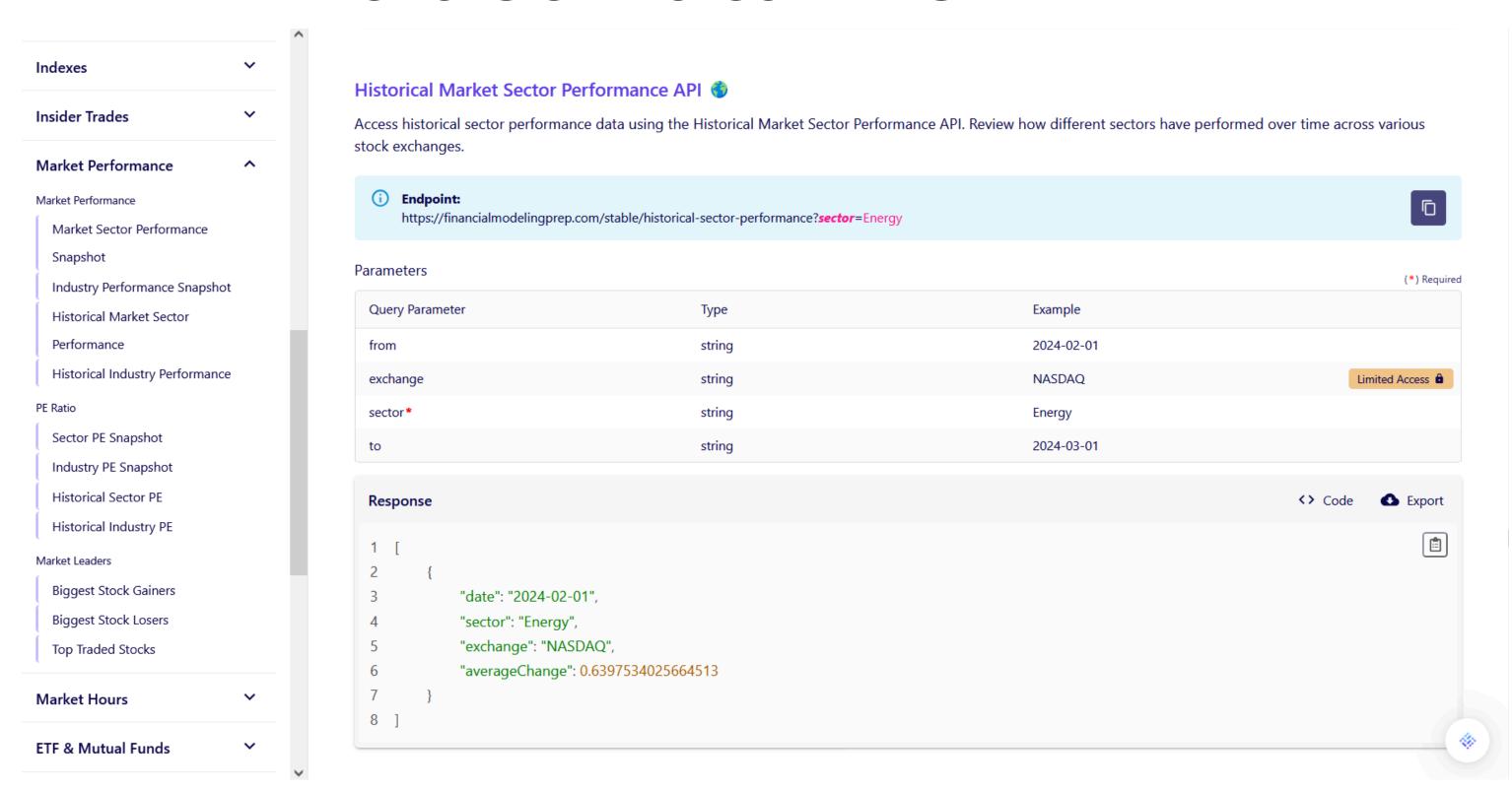
If you have not enabled this functionality, please contact our support team.

Financial Modeling Prep (FMP) for Data

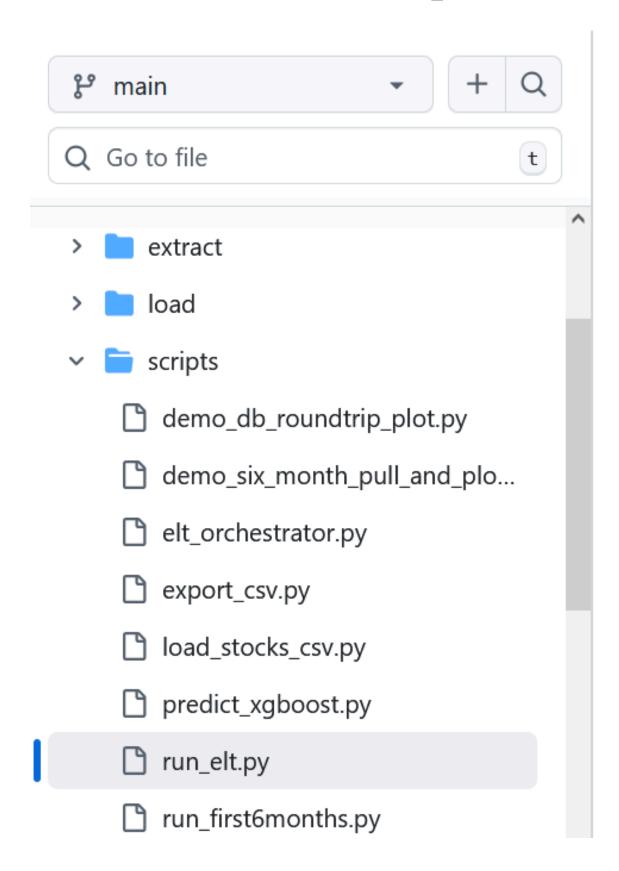




Extract Data From FMP



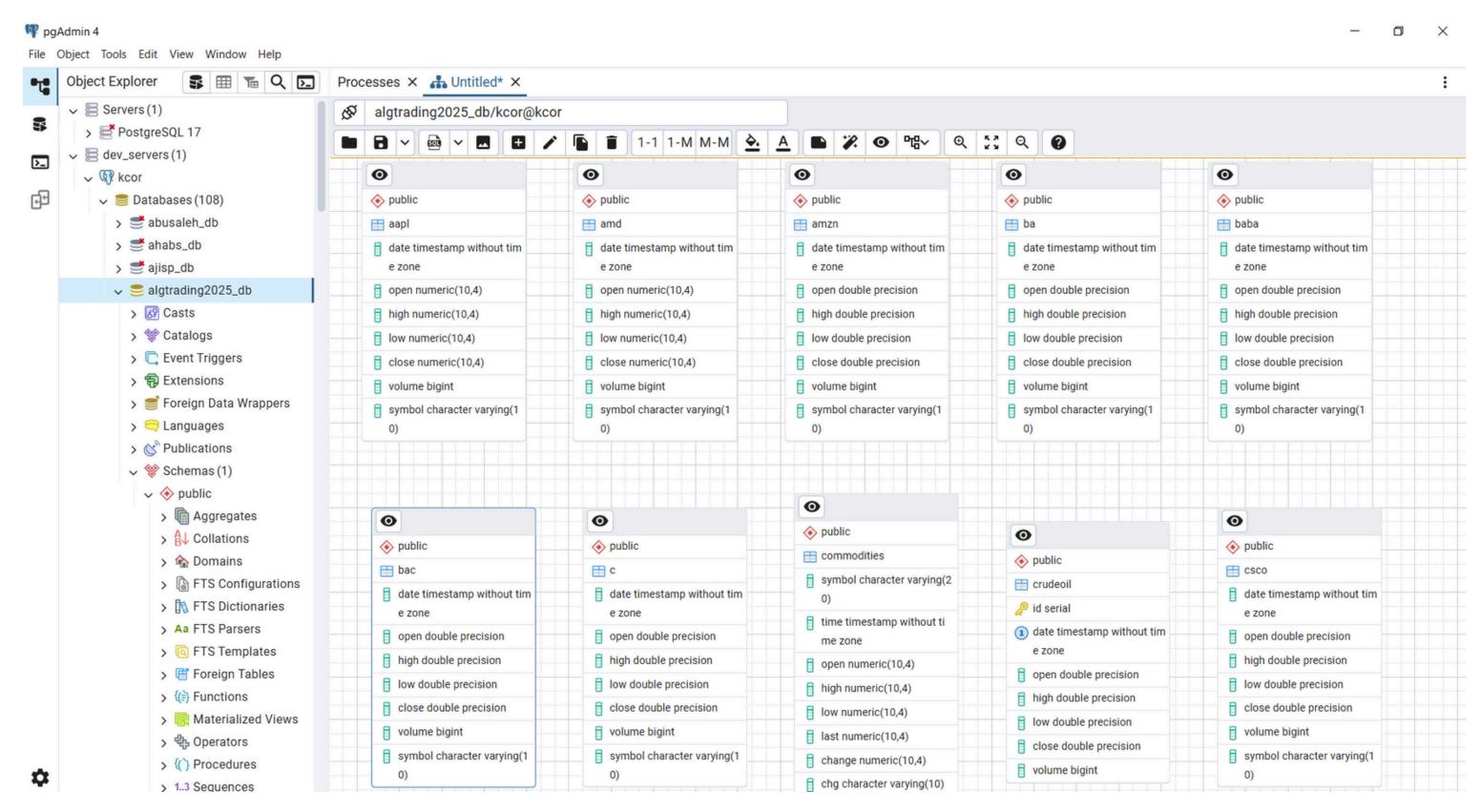
Use Scripts to Extract Data as CSV File



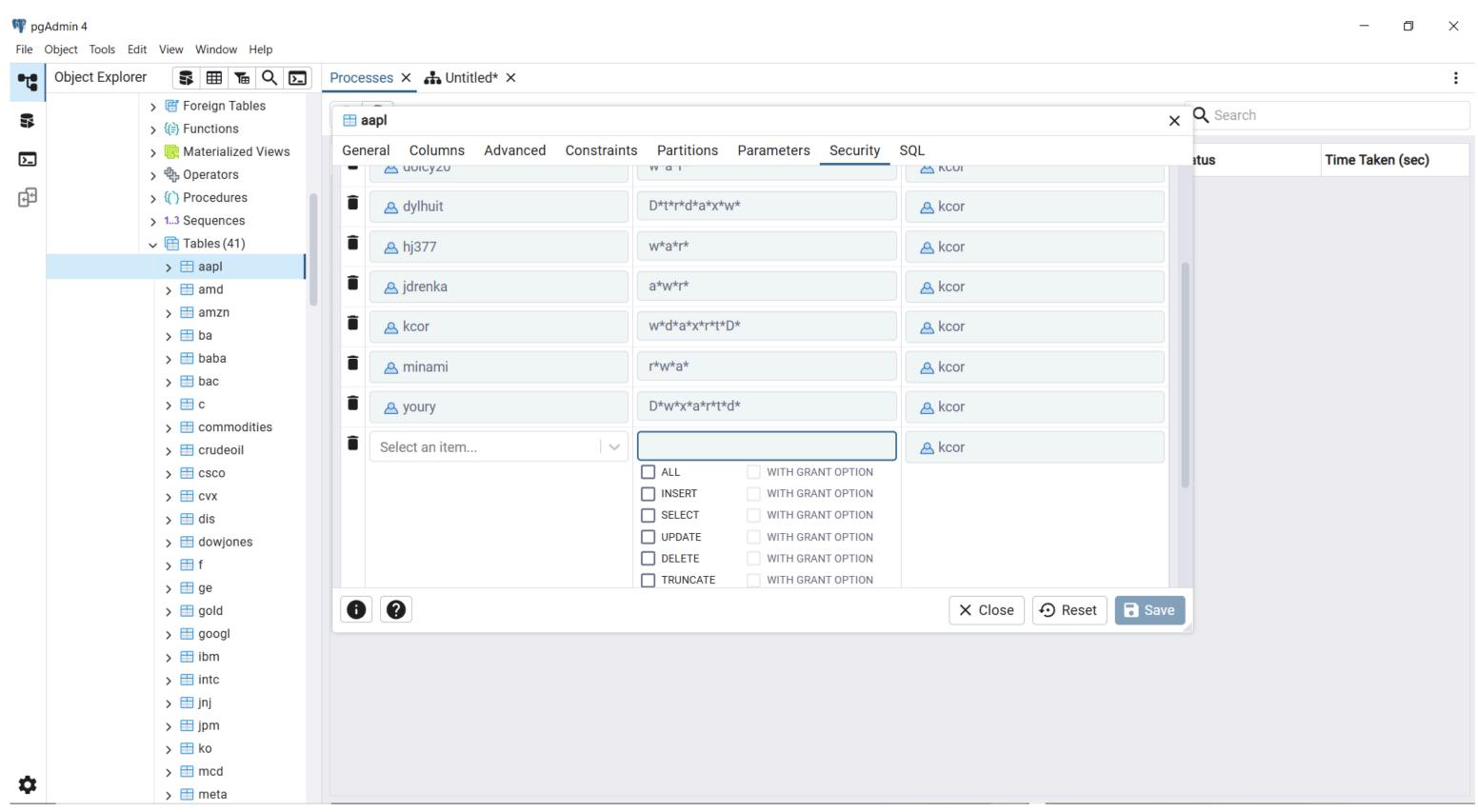
```
DylHuitOC Added ELT process for data collection, meant to run historical data c...
Code
          Blame
           11 11 11
     1
           ELT Process Runner
           Simple script to run different ELT operations
     3
           import sys
           import os
           sys.path.append(os.path.dirname(os.path.dirname(os.path.abspath( file ))))
           import argparse
     9
           from datetime import datetime, timedelta
    10
    11
           from elt_orchestrator import ELTOrchestrator
    12
           from extract.market_data_extractor import MarketDataExtractor
    13
           from load.csv_data_warehouse_loader import CSVDataWarehouseLoader
    14
           from transform.raw to analytics transformer import RawToAnalyticsTransformer
    15
           from quality.data quality checker import DataQualityChecker
    16
```



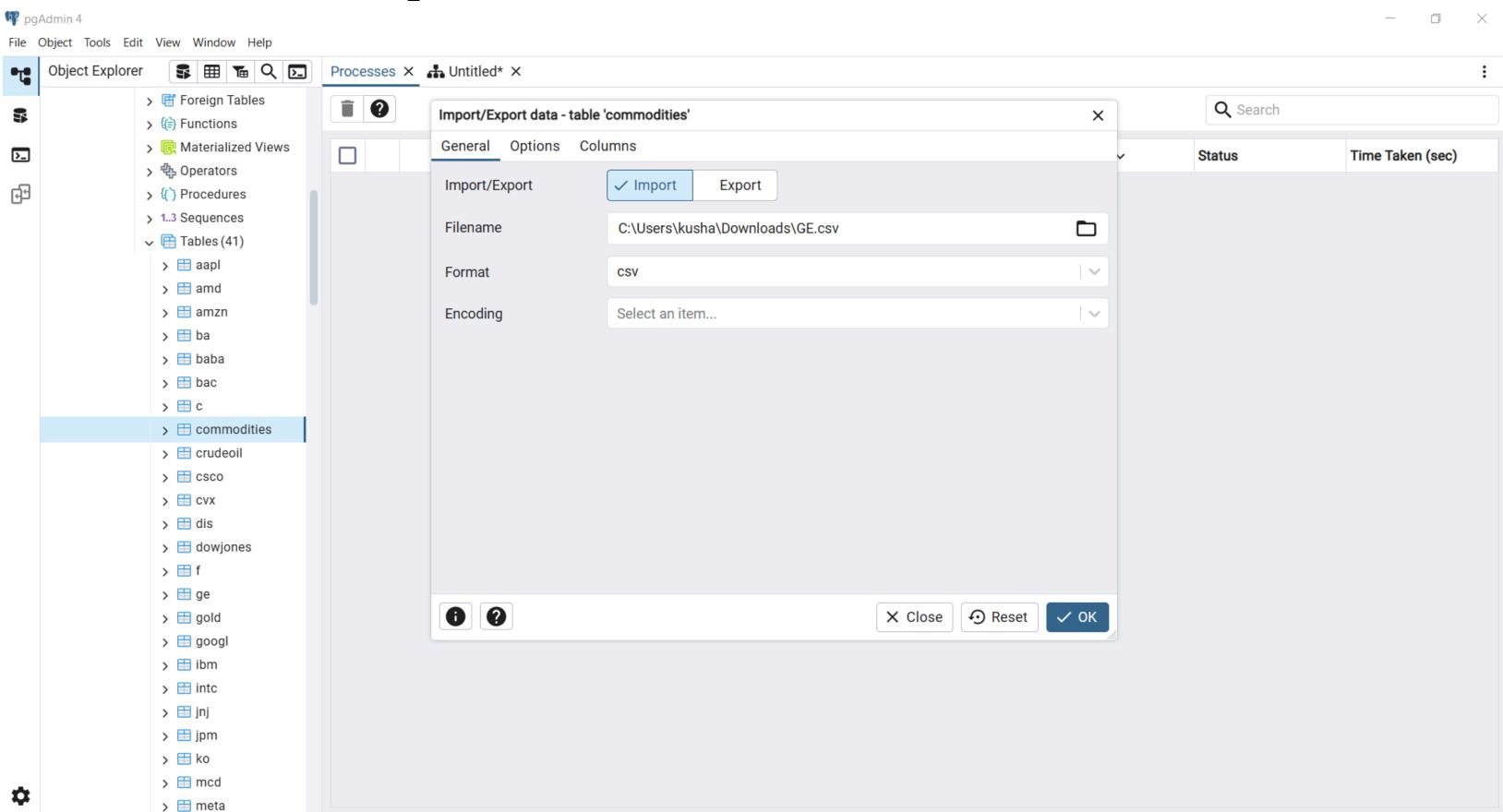
Entity Relationship Diagram (ERD)



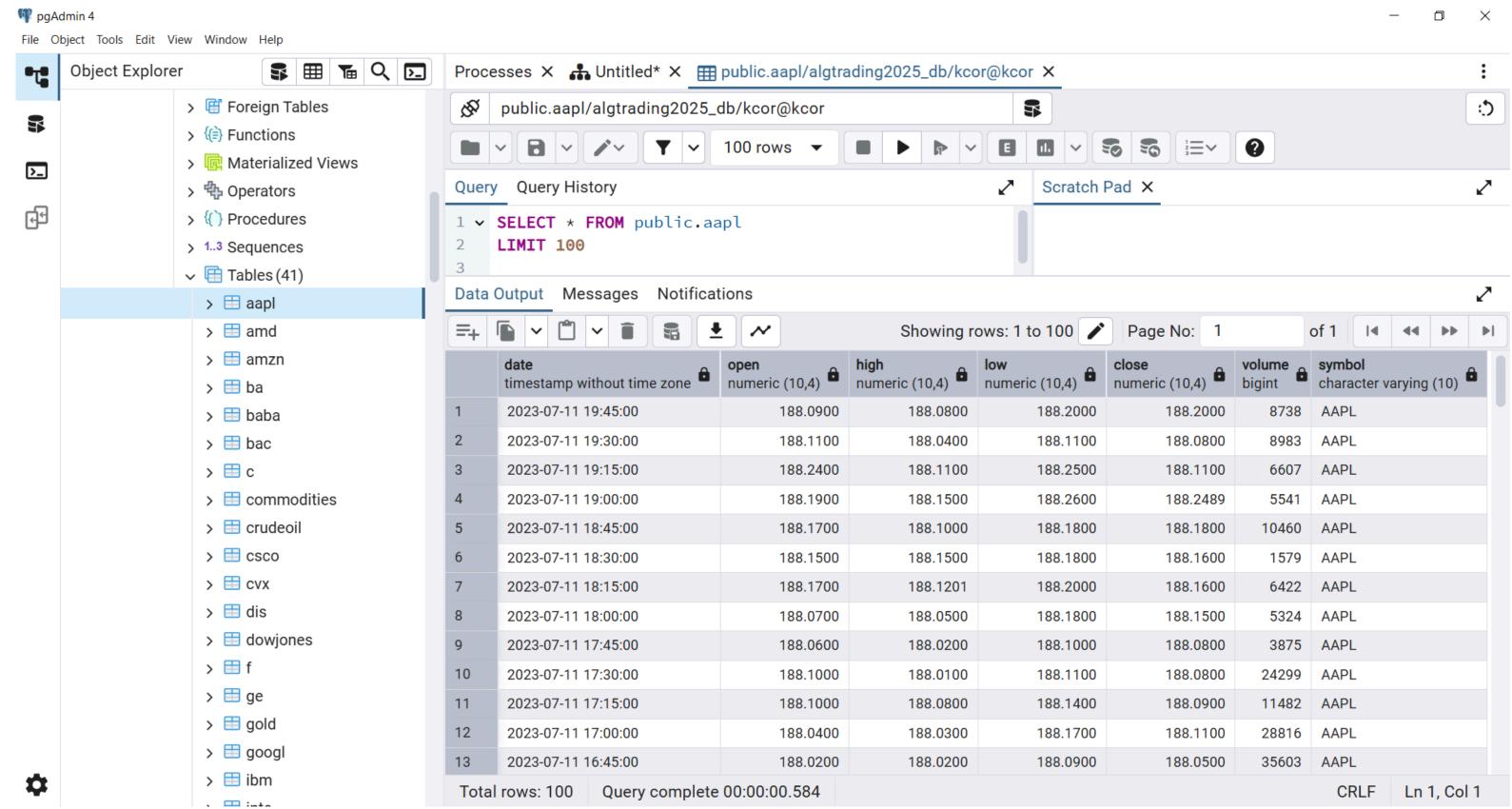
Permissions (Database & Tables)



Import CSV into Table



Verify No Missing Values for All Data



Conclusion

- About DRAC
- DRAC Services
 - Research Data Management (RDM)
 - Advanced Research Computing (ARC)
 - Create& Manage CCDB account
- Opportunities
 - DRI EDIA Champions Pilot Program
 - Alliance Cloud Connect Project (ACCP)
- Fir and Cedar PostgreSQL Access Guide
- SSH tunnel
- Collect & Import data

References

"Alliance," Digital Research Alliance of Canada, accessed Sep. 25, 2025. [Online]. Available: https://www.alliancecan.ca/en

"CCDB Portal," Digital Research Alliance of Canada, accessed Sep. 25, 2025. [Online]. Available: https://ccdb.alliancecan.ca/

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pgAdmin Development Team, "pgAdmin," accessed Sep. 25, 2025. [Online]. Available: https://www.pgadmin.org

Thank You!

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