UltraQuery v0.0.9 Documentation

Release Info

Overview

UltraQuery is a fast and lightweight Python module + CLI tool for:

- Reading .csv, .txt, and .sqlite files

- Viewing data or building DataFrame-like structures

- Plotting directly from terminal using CLI flags

- Powered by a custom C++ engine for high performance

Installation

```
pip install ultraquery
```

Python Usage

```
from ultraquery import UltraQuery

uq = UltraQuery.UltraQuery()
uq.viewdata("cars.csv", limit=20)
uq.df("cars.csv", limit=100)
uq.plot("cars.csv", xcol="year", ycol="price", graph_type="line")
```

CLI Usage

```
ultraquery -f cars.csv -l 50 -df
ultraquery -f cars.csv -l 100 -plt -x year -y price -typ line
```

CLI Flags

- -f: Path to CSV/SQL file

- -l: Limit number of rows to load

- -df: Show data as a table

- -plt: Enable graph plotting

- -x: Set X-axis column

- -y: Set Y-axis column

- -typ: Type of plot (bar, pie, etc.)

- -sql: Enable SQLite mode

- -table: Specify SQLite table

- -col: View column list

- -vc: View raw column data

Available Functions

- viewcolumn(file): List columns from a CSV

- viewdata(file, n): Display top n rows

- df(file, n): Load data into custom frame structure

- viewsql(file, table, n): Load rows from SQLite table

- plot(file, x, y, typ): Plot the selected columns

Supported plot types: bar, line, scatter, pie, histogram

Example

```
ultraquery -f sales.csv -l 100 -plt -x month -y revenue -typ bar
```

Features

- Ultra-fast CSV reading via C++ engine

- Native Python class interface

- CLI for quick data exploration

- Easy-to-use plotting with matplotlib

- SQLite table reading support

Engine Details

- Uses native shared library (engine.dll / engine.so)

- Loaded via ctypes

- Engine functions: readcsv, columnsget, getdata, dataframe

Contributors

UltraQuery v0.0.9 Documentation

View Contributors.txt

License

View License