

Big 5 Canadian Banks

Descriptive Data Analysis



Project Overview

Comparative Analysis of Big 5 Canadian Banks

Identify the most profitable bank

Choose the most reliable bank for investments

Alpha Vantage API

BALANCE_SHEET

This API returns the annual and quarterly balance sheets for the company of interest, with normalized fields [mapped to GAAP and IFRS taxonomies](#) of the SEC. Data is generally refreshed on the same day a company reports its latest earnings and financials.

API Parameters

■ Required: `function`

The function of your choice. In this case, `function=BALANCE_SHEET`

■ Required: `symbol`

The symbol of the ticker of your choice. For example: `symbol=IBM`.

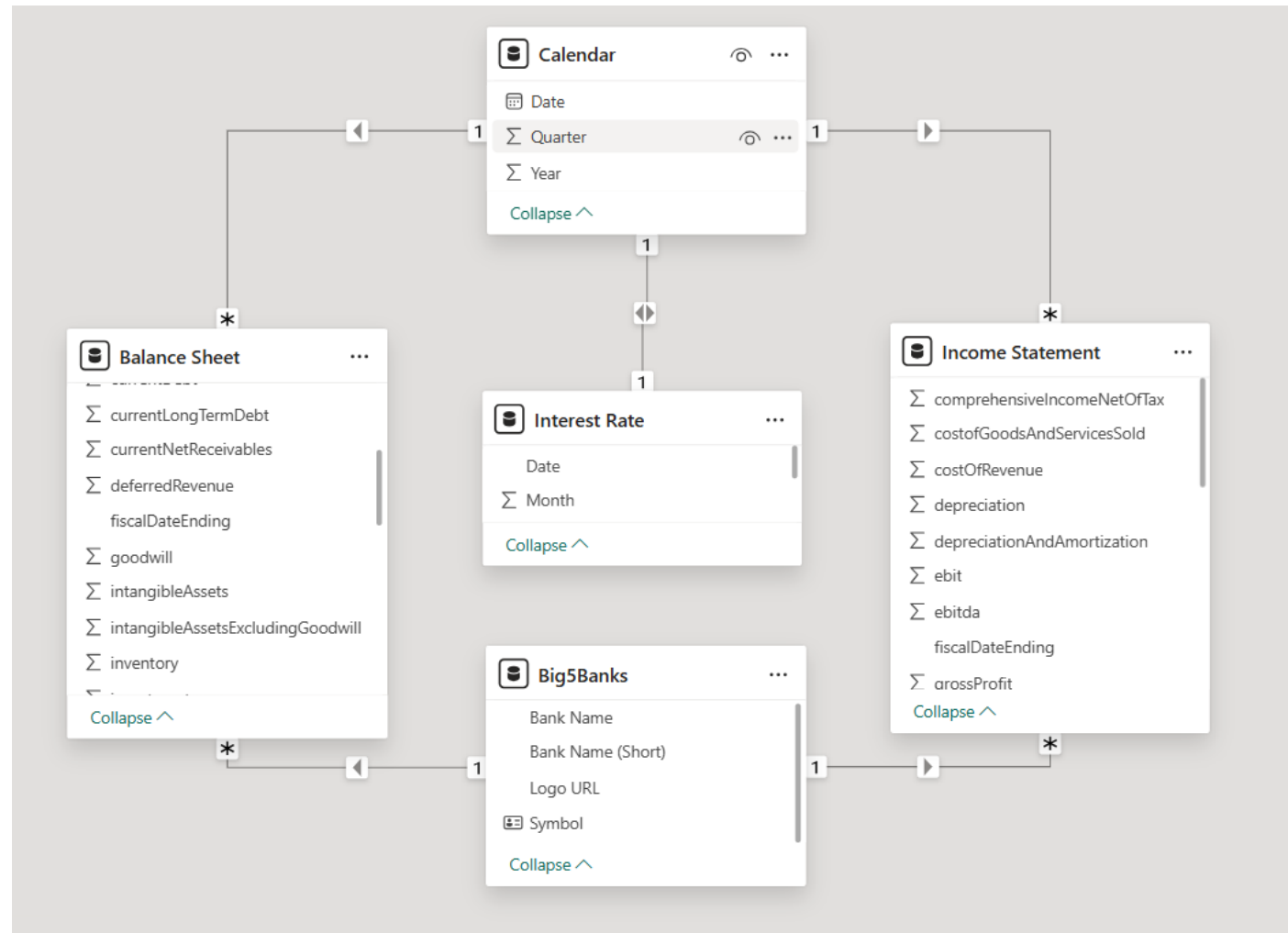
■ Required: `apikey`

Your API key. Claim your free API key [here](#).

Example - annual & quarterly balance sheets for IBM (click for JSON output)

https://www.alphavantage.co/query?function=BALANCE_SHEET&symbol=IBM&apikey=demo

Data Modeling





BIG 5 Time Value of Money Overview

All



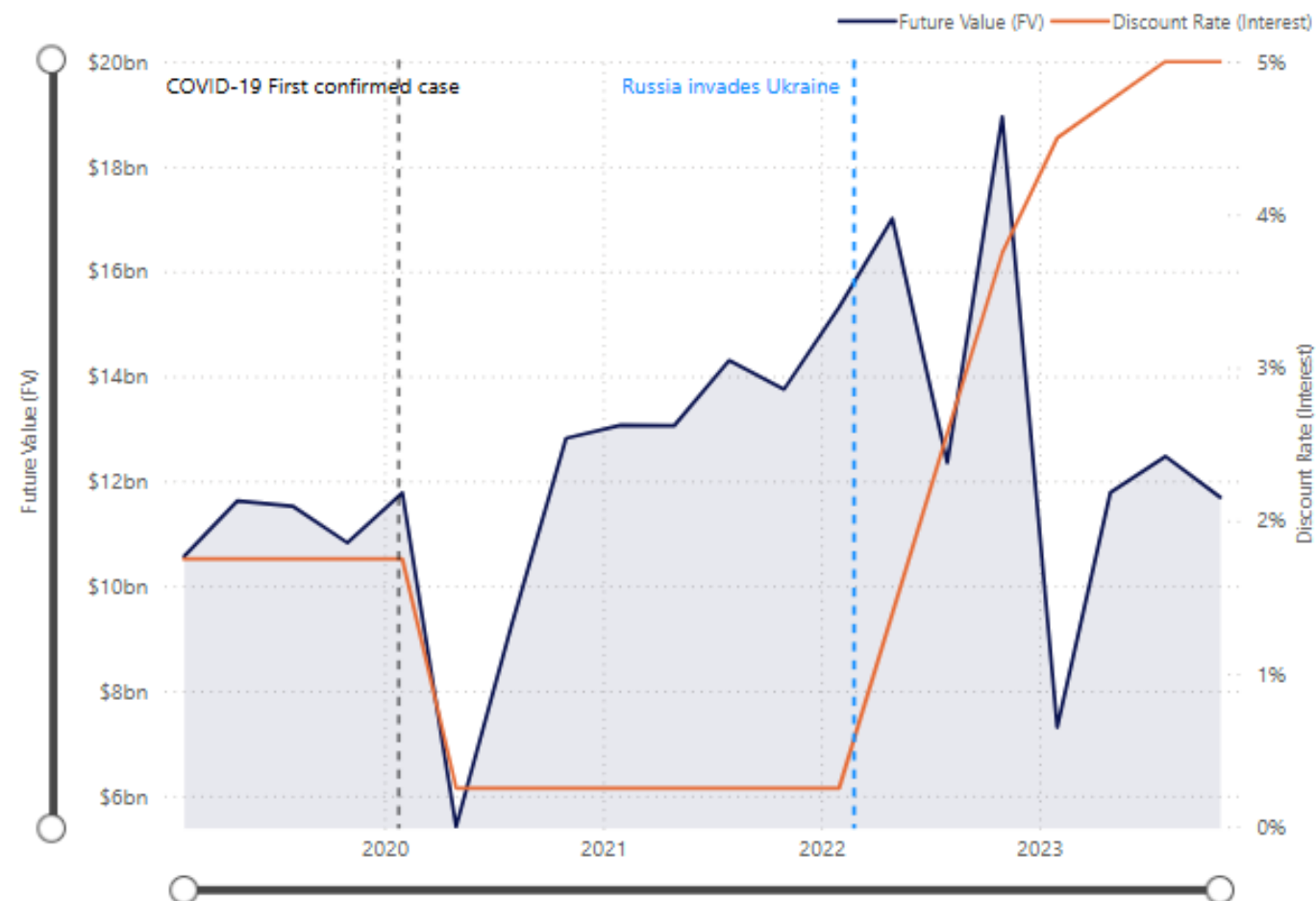
Filters



- i** Since 2023, RBC is the only one showing a consistent increasing in its Future Value.
- i** On the other hand, Scotiabank is the only one showing a lower FV at the end of 2023.

Future Value vs Interest Rate over Time

Canadian Big 5 Banks



Big 5 Comparison

	BMO	CIBC	RBC	TD	Scotia Bank
Revenue	135.0bn	102.1bn	236.2bn	225.6bn	154.5bn
Net Income	3.9bn	5.0bn	14.8bn	10.7bn	7.4bn
Profit Margin	12.60%	21.50%	26.30%	20.30%	23.20%
Current Ratio	1.217	1.08	2.63	1.21	1.31
Return on Equity	2.98%	3.01%	3.70%	3.35%	2.98%

Future

Opportunities for Improvement

Automating Data Updates

Integrate Real-Time
Financial Data

Enhance Visualizations

Thank You