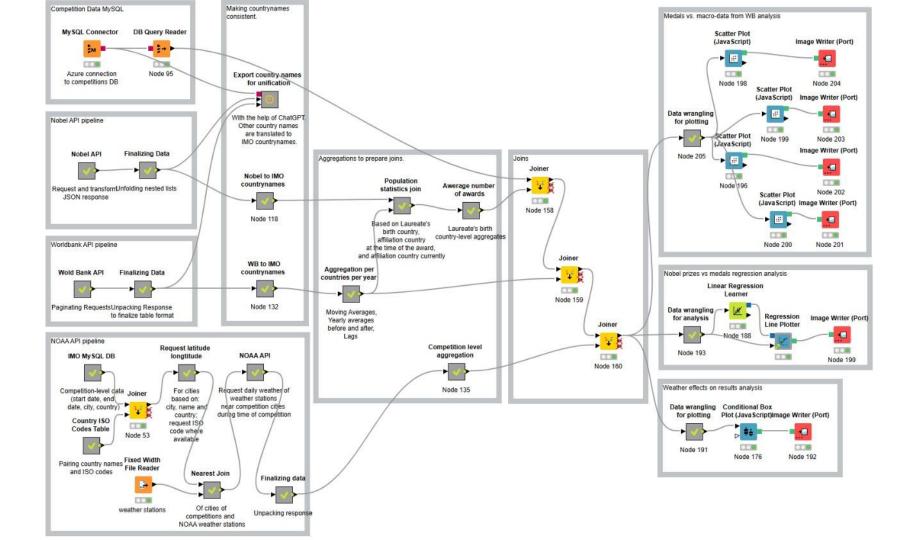
Math, Minds, and Meteorology: Analyzing the International Math Olympiad





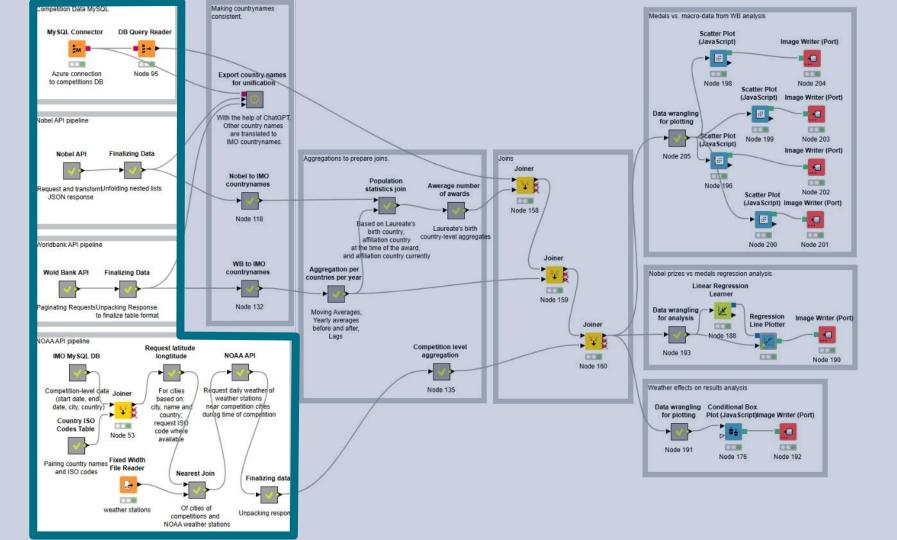
JOINS





DATA

Data sources & workflow

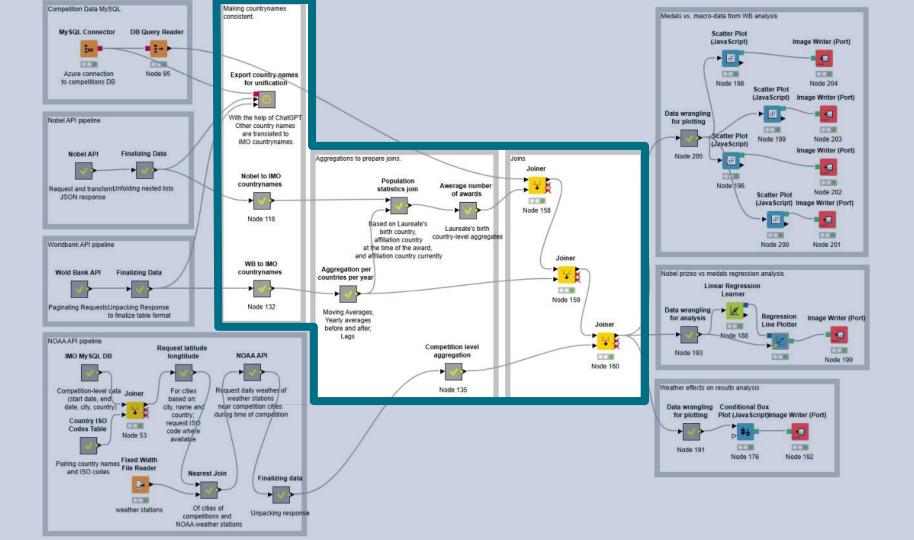


DATA SOURCES

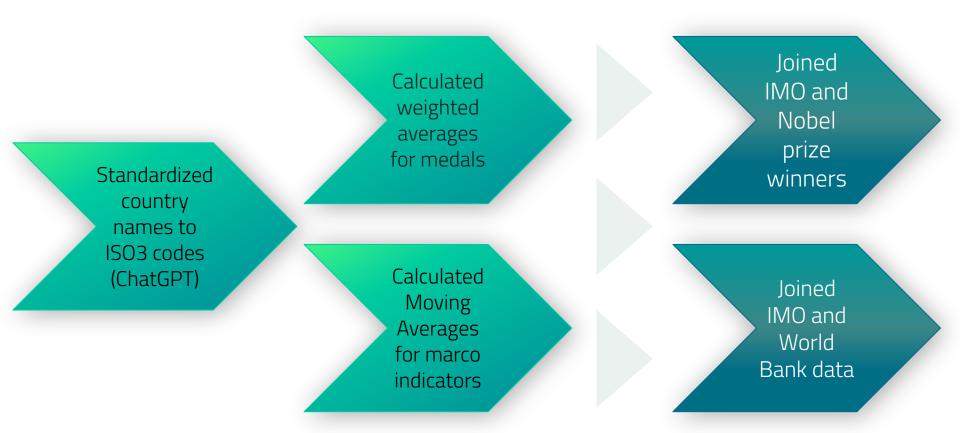
Data	Level of observation	Workflow
International Math Olympiad (IMO)	Competition, participant	Downloaded from GitHub, pushed to Azure
Nobel Prize winners	Year, individual	Nobel Prize API, Knime workflow
World Bank Education Statistics	Year, country	World Bank API, Knime workflow to paginate and impute missing values
National Oceanic and Atmospheric Administration Weather data	Competition city	NOAA API, Knime extension to match the city to the closest weather station

JOINS

Aggregations & joins workflow



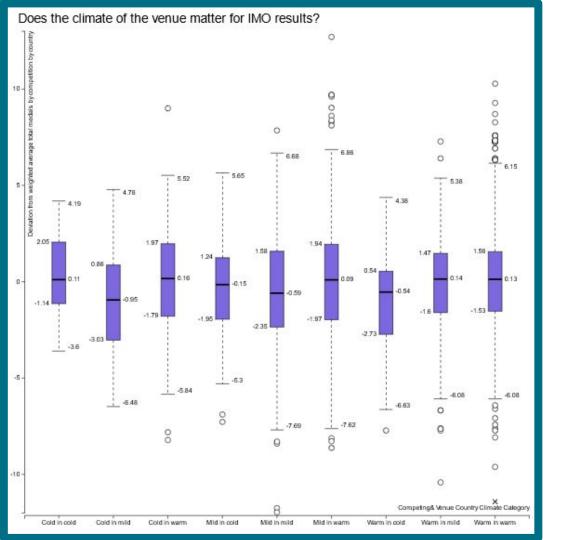
AGGREGATIONS & JOINS



B

ANALYSIS

Data analytics & visualization



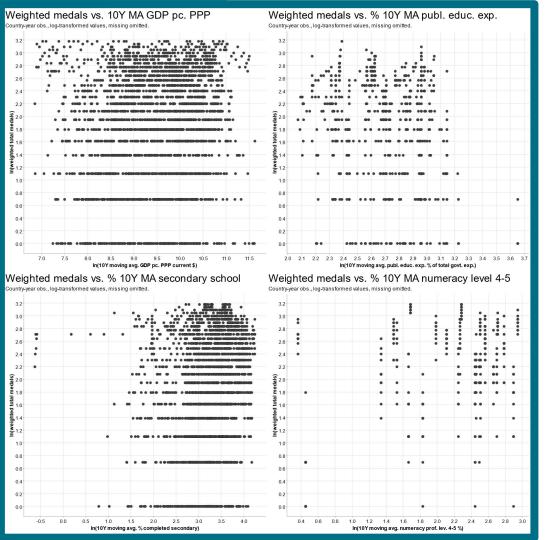
CLIMATE

No relationship
between the climate of
the competition location
and participants' home
country

NOBEL PRIZE

No strong relationship between IMO medals and Nobel prizes





EDUCATION STATISTICS

Mixed results on various education indicators

THANK YOU!

Q&A

