ceu-economics-and-business.github.io

Knime. – ECBS 5146 SQL and Different Shapes of Data

2–3 minutes

Overview

Teaching: 90 min

Questions

- How the data science landscape looks like in regard to tools?
- How to implement an end-to-end data analytics workflow integrated with multiple sources?
- How to do rapid prototype a data analytics workflow with low code tools, opposed to using a programing language (R,Python etc)?

Objectives

- Introducing KNIME as data analytics tool
- Basic exercises with KNIME
- End-to-end (from data acquisition to visualization) practice exercise

Keywords

#DATA SCIENCE BY GARTNER

#KNIME

#EUROSTAT WORKFLOW

#CLIMATE WORKFLOW

Prerequisites for this chapter

Installing KNIME Analytics Platform

- Download KNIME for (Window/Linux/Mac) from: https://www.knime.com/downloads/download-knime
- Please make sure the installation is valid and the application starts properly!
- If you need further help check the “KNIME Beginner’s Luck” book uploaded on Moodle or ask help on Slack!

Self preparation at home

- Read “KNIME Beginner’s Luck” book uploaded on Moodle from page 18 to 54.
- Do the exercises from these pages.
- Check the content of all 4 KNIME related books uploaded on Moodle

Self preparation at home

Introducing KNIME

Why KNIME?

Data Science and ML Platforms (Gartner 2019)

KNIME Ecosystem

Picture

KNIME Nodes Classification

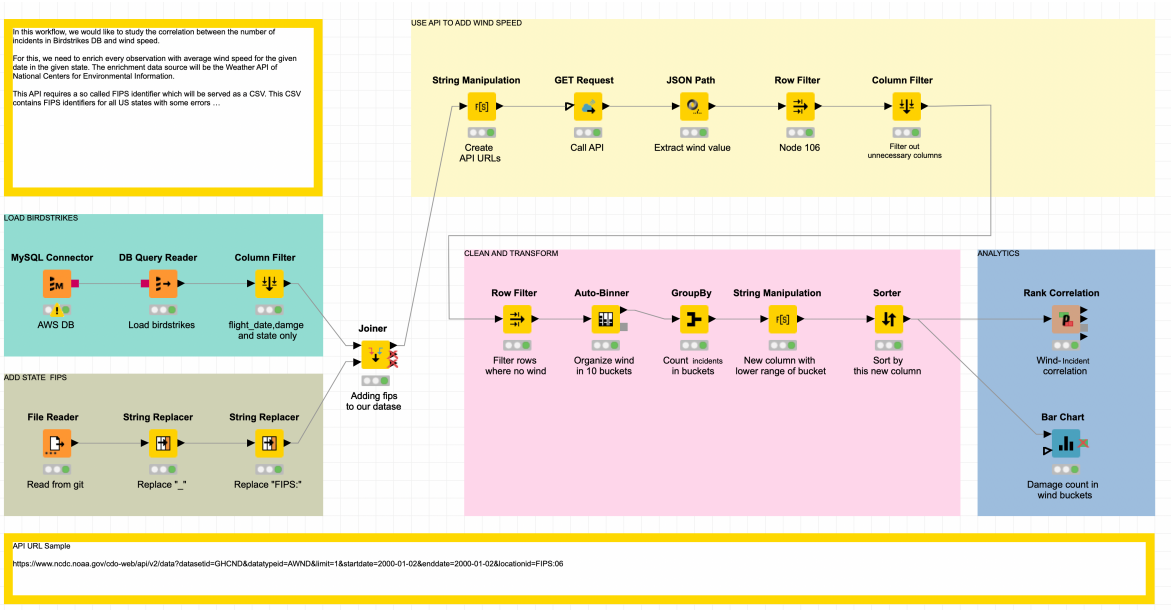
Picture

End-to-end example

Source file (fips.csv)

Source API

Final KNIME Workflow



Result on sample of 999 records