

# **ASSIGNMENT-3**

## **DATA ANALYSIS WITH POWER BI & KNIME**

- 1) Read the adult.csv file available in the **data** folder on the KNIME Hub. The data are provided by the [UCI Machine Learning Repository](#).
  - 2) Extract people with age between 20 and 40 (both included) and working in a workclass starting with "S"
  - 3) Extract people with age between 40 and 60 (both included) and working in a workclass starting with "P"
  - 4) Concatenate both subsets into a single data table
- 1) Read the adult.csv file

This screenshot shows a KNIME workflow titled "Local - Assignment 3". The workflow consists of a CSV Reader node, two Row Filter nodes, and a Concatenate node. A message box on the right says "This node dialog is not supported here." with a "Open dialog" button.

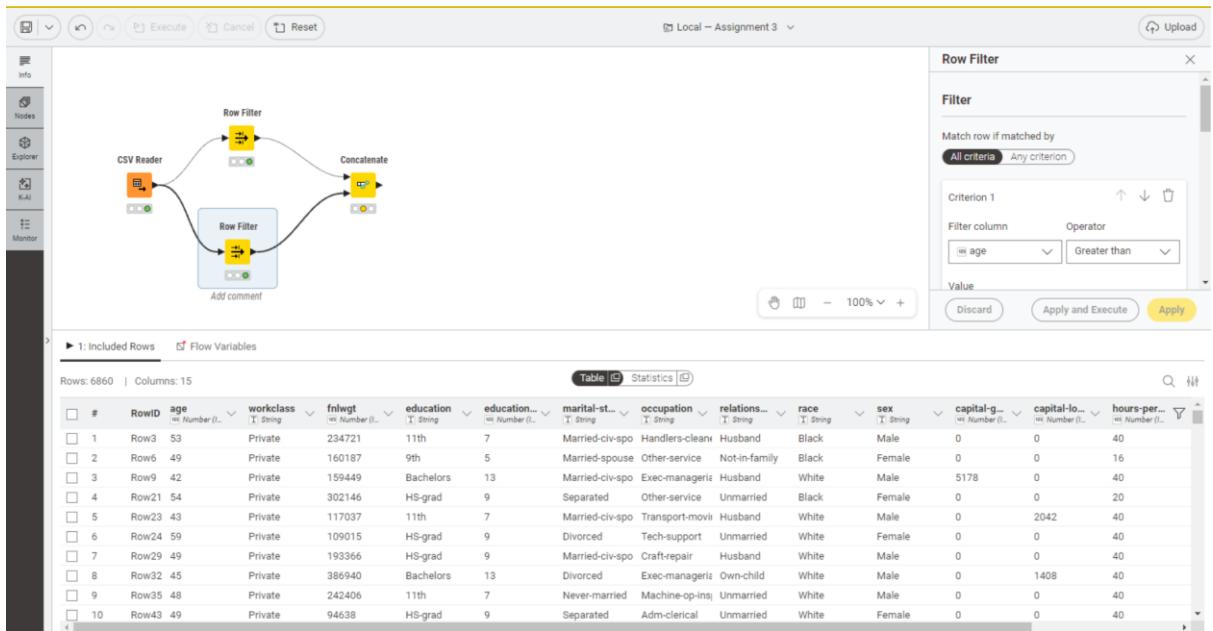
#	RowID	age	workclass	fnlwgt	education	education...	marital-st...	occupation	relations...	race	sex	capital-g...	capital-lo...	hours-per...
1	Row0	39	State-gov	77516	Bachelors	13	Never-married	Adm-clerical	Not-in-family	White	Male	2174	0	40
2	Row1	50	Self-emp-not-in	83311	Bachelors	13	Married-civ-spo	Exec-managerial	Husband	White	Male	0	0	13
3	Row2	38	Private	215646	HS-grad	9	Divorced	Handlers-clean	Not-in-family	White	Male	0	0	40
4	Row3	53	Private	234721	11th	7	Married-civ-spo	Handlers-clean	Husband	Black	Male	0	0	40
5	Row4	28	Private	338409	Bachelors	13	Married-civ-spo	Prof-specialty	Wife	Black	Female	0	0	40
6	Row5	37	Private	284582	Masters	14	Married-civ-spo	Exec-managerial	Wife	White	Female	0	0	40
7	Row6	49	Private	160187	9th	5	Married-spouse	Other-service	Not-in-family	Black	Female	0	0	16
8	Row7	52	Self-emp-not-in	209642	HS-grad	9	Married-civ-spo	Exec-managerial	Husband	White	Male	0	0	45
9	Row8	31	Private	45781	Masters	14	Never-married	Prof-specialty	Not-in-family	White	Female	14084	0	50
10	Row9	42	Private	159449	Bachelors	13	Married-civ-spo	Exec-managerial	Husband	White	Male	5178	0	40

- 2) Extract people with age between 20 and 40 (both included) and working in a work class starting with “S”

This screenshot shows a KNIME workflow titled "Local - Assignment 3". The workflow starts with a CSV Reader node, followed by two Row Filter nodes, and ends with a Concatenate node. The Row Filter dialog is open, showing a filter criterion for "age" greater than 20. The resulting table shows 1857 rows.

#	RowID	age	workclass	fnlwgt	education	education...	marital-st...	occupation	relations...	race	sex	capital-g...	capital-lo...	hours-per...
1	Row0	39	State-gov	77516	Bachelors	13	Never-married	Adm-clerical	Not-in-family	White	Male	2174	0	40
2	Row11	30	State-gov	141297	Bachelors	13	Married-civ-spo	Prof-specialty	Husband	Asian-Pac-Islander	Male	0	0	40
3	Row16	25	Self-emp-not-in	176756	HS-grad	9	Never-married	Farming-fishing	Own-child	White	Male	0	0	35
4	Row34	22	State-gov	311512	Some-college	10	Married-civ-spo	Other-service	Husband	Black	Male	0	0	15
5	Row72	29	Self-emp-not-in	162298	Bachelors	13	Married-civ-spo	Sales	Husband	White	Male	0	0	70
6	Row10	32	Self-emp-inc	317660	HS-grad	9	Married-civ-spo	Craft-repair	Husband	White	Male	7688	0	40
7	Row12	29	State-gov	267989	Bachelors	13	Married-civ-spo	Prof-specialty	Husband	White	Male	0	0	50
8	Row13	38	Self-emp-not-in	120985	HS-grad	9	Married-civ-spo	Craft-repair	Husband	White	Male	4386	0	35
9	Row17	28	State-gov	175325	HS-grad	9	Married-civ-spo	Protective-serv	Husband	White	Male	0	0	40
10	Row17	28	State-gov	149624	Bachelors	13	Married-civ-spo	Prof-specialty	Husband	White	Male	0	0	40

- 3) Extract People with age between 40 and 60 (both included) and working in a work class starting with “P”



#### 4) Concatenate both subsets into a single data

