Assignment 03

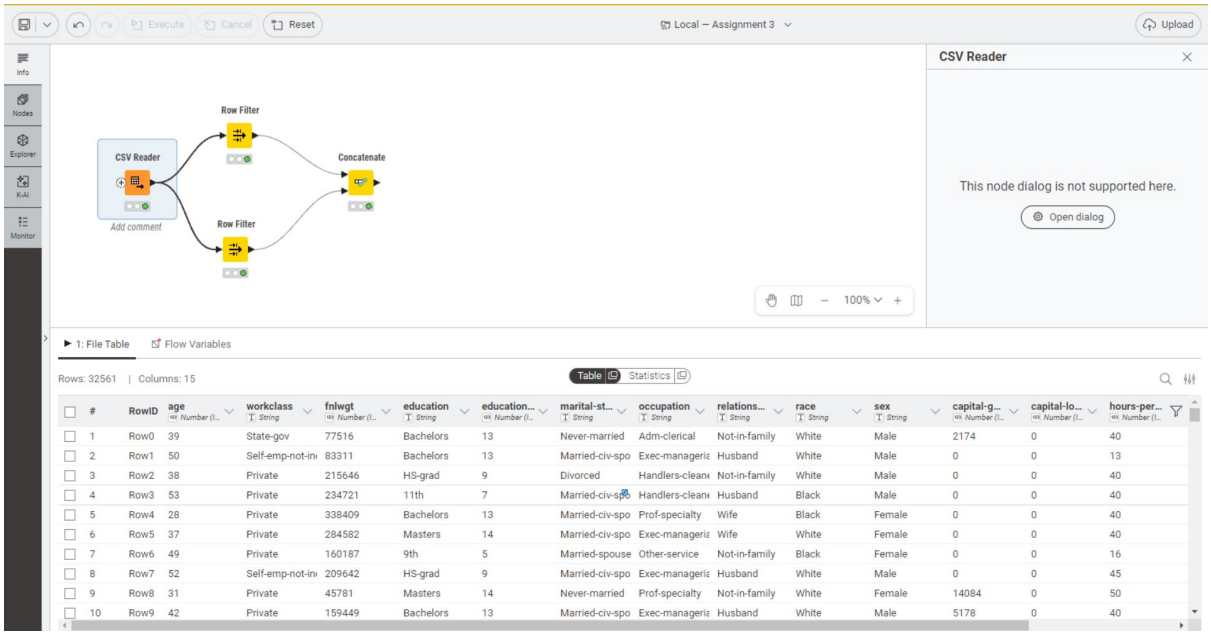
1) Read the adult.csv file available in the data folder on the KNIME Hub. The data are provided by the UCI Machine Learning Repository.

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"

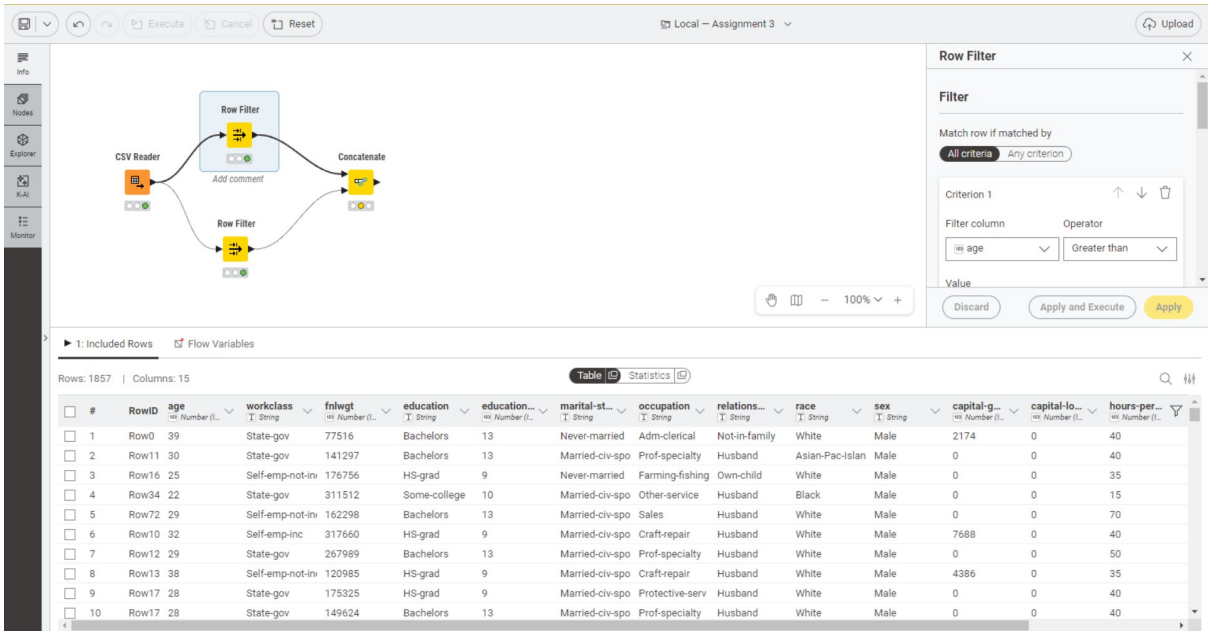
4) Concatenate both subsets into a single data table

Step 1: Read the adult.csv file



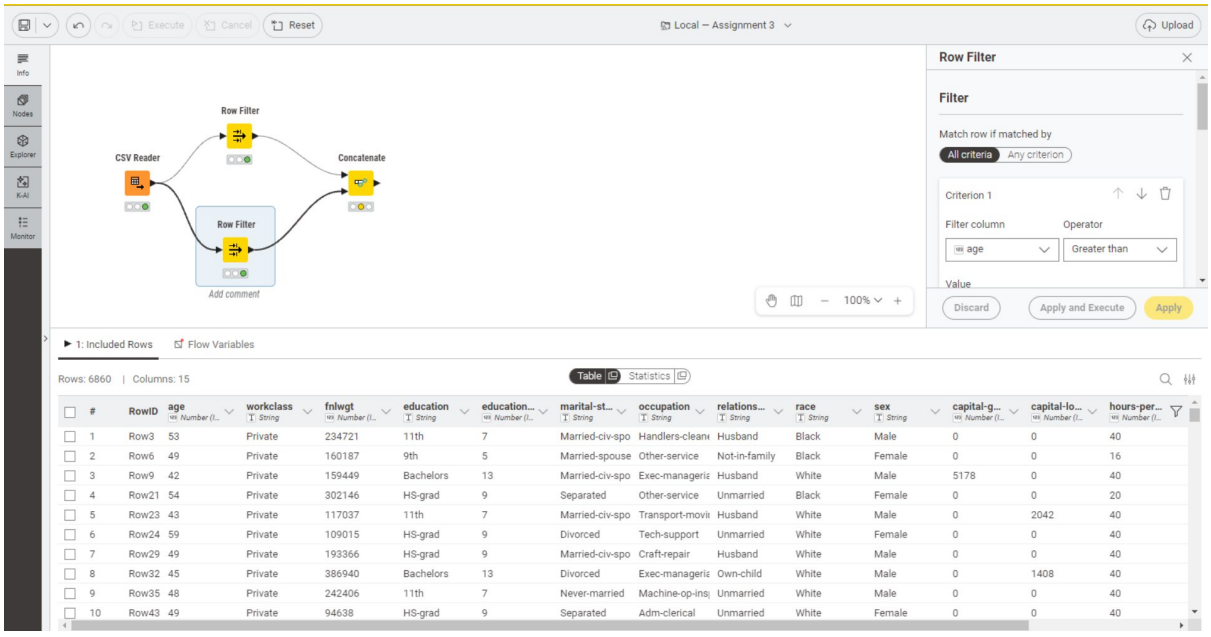
#	RowID	age	workclass	fnlwgt	education	education...	marital-st...	occupation	relations...	race	sex	capital-g...	capital-lo...	hours-per...
1	Row0	39	State-gov	77516	Bachelors	13	Never-married	Adm-clerical	Not-in-family	White	Male	2174	0	40
2	Row1	50	Self-emp-not-in	83311	Bachelors	13	Married-civ-spo	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

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



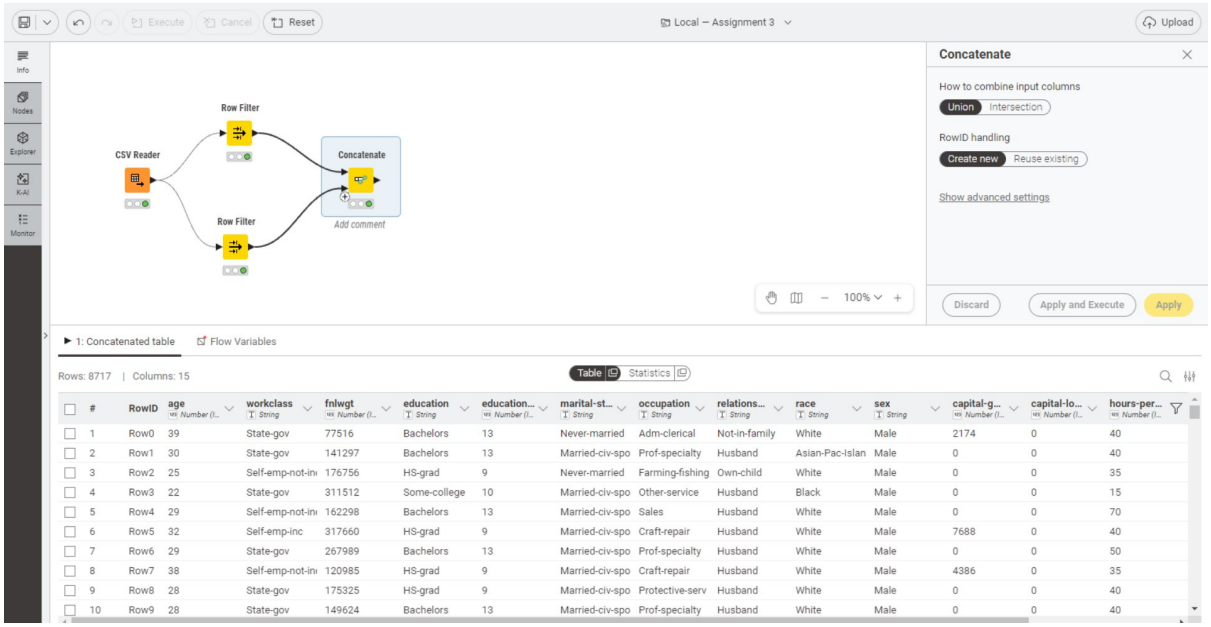
#	RowID	age	workclass	fnlwgt	education	education...	marital-st...	occupation	relations...	race	sex	capital-g...	capital-lo...	hours-per...
1	Row0	39	State-gov	77516	Bachelors	13	Never-married	Adm-clerical	Not-in-family	White	Male	2174	0	40
2	Row11	30	State-gov	141297	Bachelors	13	Married-civ-spo	Prof-specialty	Husband	Asian-Pac-Islan	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

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



#	RowID	age	workclass	fnlwgt	education	education...	marital-st...	occupation	relations...	race	sex	capital-g...	capital-lo...	hours-per...
1	Row3	53	Private	234721	11th	7	Married-civ-spo	Handlers-cleani	Husband	Black	Male	0	0	40
2	Row6	49	Private	160187	9th	5	Married-spouse	Other-service	Not-in-family	Black	Female	0	0	16
3	Row9	42	Private	159449	Bachelors	13	Married-civ-spo	Exec-managerial	Husband	White	Male	5178	0	40
4	Row21	54	Private	302146	HS-grad	9	Separated	Other-service	Unmarried	Black	Female	0	0	20
5	Row23	43	Private	117037	11th	7	Married-civ-spo	Transport-movi	Husband	White	Male	0	2042	40
6	Row24	59	Private	109015	HS-grad	9	Divorced	Tech-support	Unmarried	White	Female	0	0	40
7	Row29	49	Private	193366	HS-grad	9	Married-civ-spo	Craft-repair	Husband	White	Male	0	0	40
8	Row32	45	Private	386940	Bachelors	13	Divorced	Exec-managerial	Own-child	White	Male	0	1408	40
9	Row35	48	Private	242406	11th	7	Never-married	Machine-op-insp	Unmarried	White	Male	0	0	40
10	Row43	49	Private	94638	HS-grad	9	Separated	Adm-clerical	Unmarried	White	Female	0	0	40

Step 4: Concatenate both subsets into a single data



#	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	30	State-gov	141297	Bachelors	13	Married-civ-spo	Prof-specialty	Husband	Asian-Pac-Islan	Male	0	0	40
3	Row2	25	Self-emp-not-in	176756	HS-grad	9	Never-married	Farming-fishing	Own-child	White	Male	0	0	35
4	Row3	22	State-gov	311512	Some-college	10	Married-civ-spo	Other-service	Husband	Black	Male	0	0	15
5	Row4	29	Self-emp-not-in	162298	Bachelors	13	Married-civ-spo	Sales	Husband	White	Male	0	0	70
6	Row5	32	Self-emp-inc	317660	HS-grad	9	Married-civ-spo	Craft-repair	Husband	White	Male	7688	0	40
7	Row6	29	State-gov	267989	Bachelors	13	Married-civ-spo	Prof-specialty	Husband	White	Male	0	0	50
8	Row7	38	Self-emp-not-in	120985	HS-grad	9	Married-civ-spo	Craft-repair	Husband	White	Male	4386	0	35
9	Row8	28	State-gov	175325	HS-grad	9	Married-civ-spo	Protective-serv	Husband	White	Male	0	0	40
10	Row9	28	State-gov	149624	Bachelors	13	Married-civ-spo	Prof-specialty	Husband	White	Male	0	0	40