Lab 6:

Lab Slot: L5+L6 – INTERNET OF THINGS Domain Analyst

Name: Tanmay Mahajan

Regn. No: 19BCE1735

Faculty name: Dr. Sriramalakshmi P

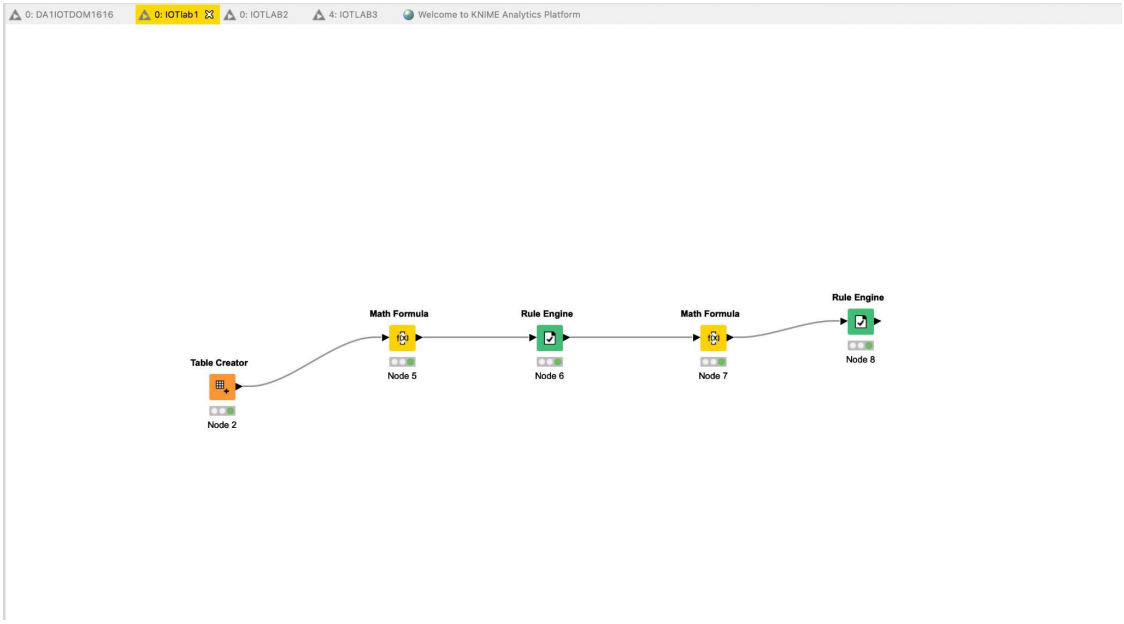
Title: Data manipulation(math operations)

Aim:-

Create a dataset with 5 columns (name, Regd no, elective name, score1 and score 2) in Knime Analytics and analyse the dataset

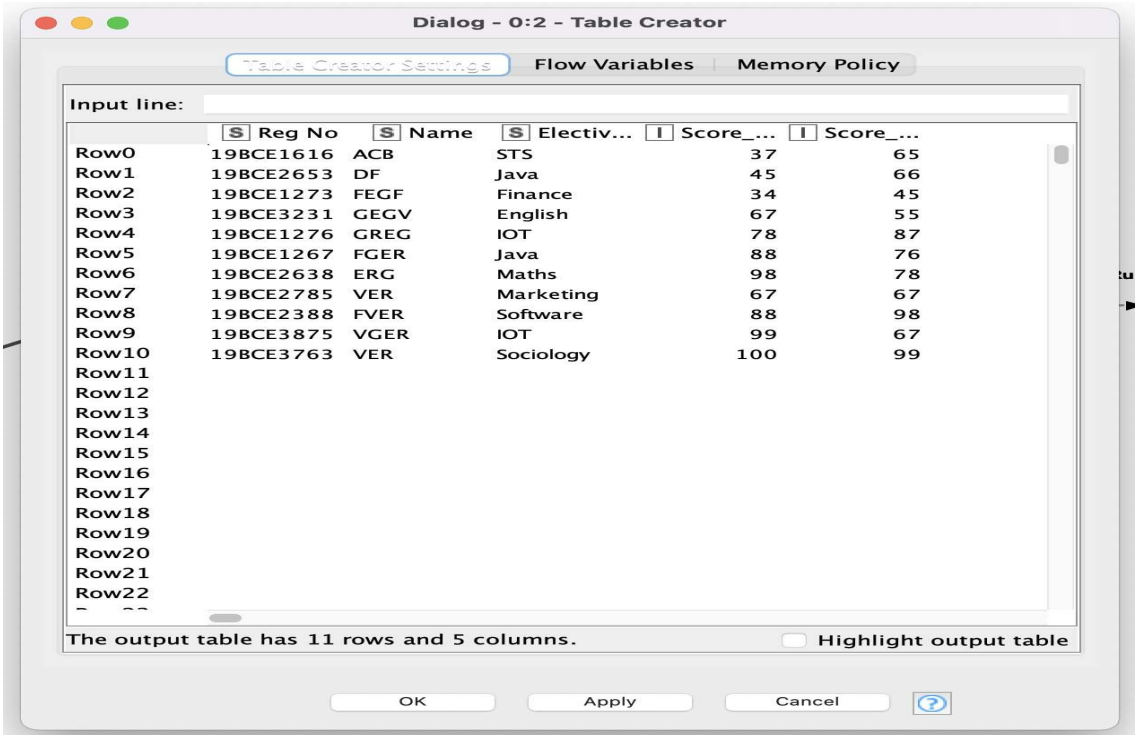
- Average of two test scores
- Score Status
- Difference between two test scores
- Recheck the status and based on the difference show if the candidate is eligible for interview call or not

WorkFlow:-

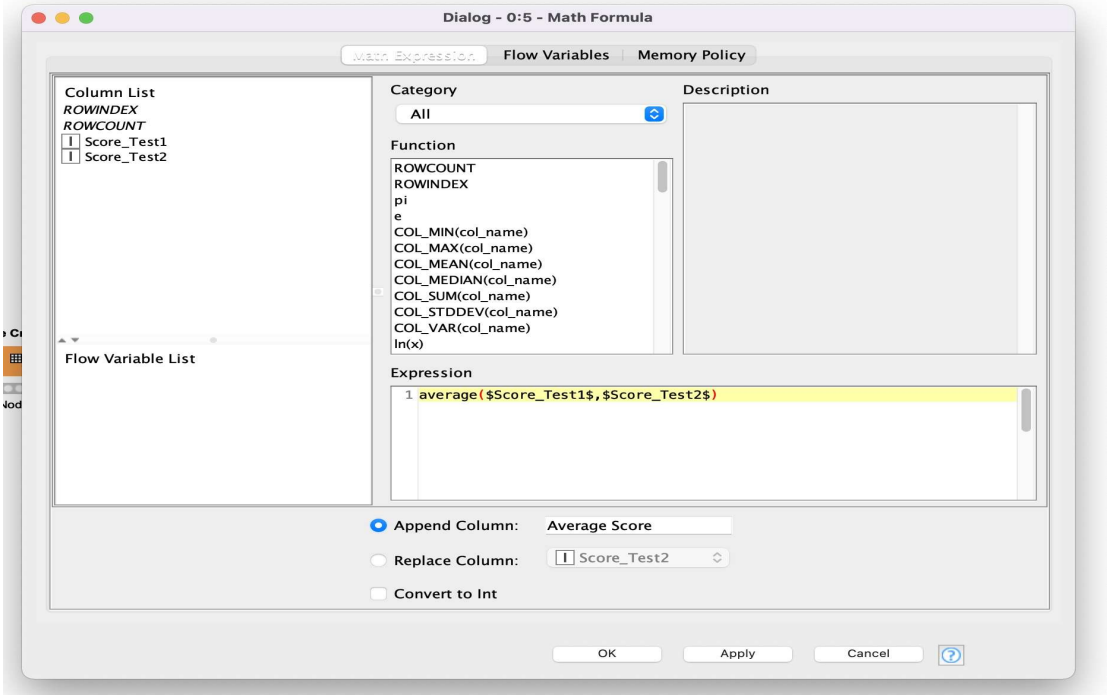


Node Details:-

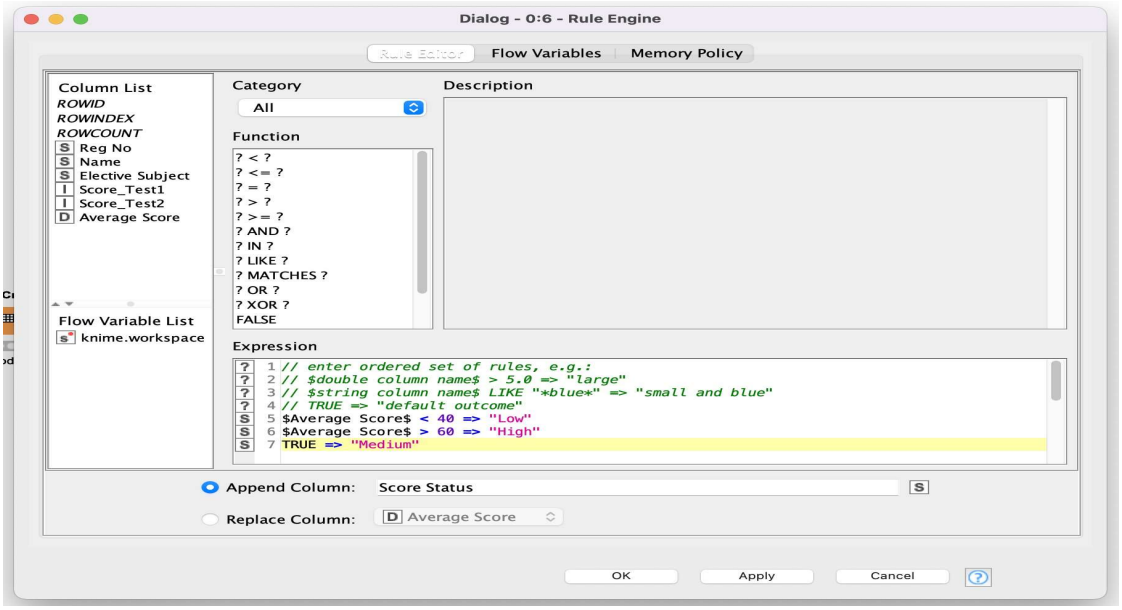
1)Table Creator



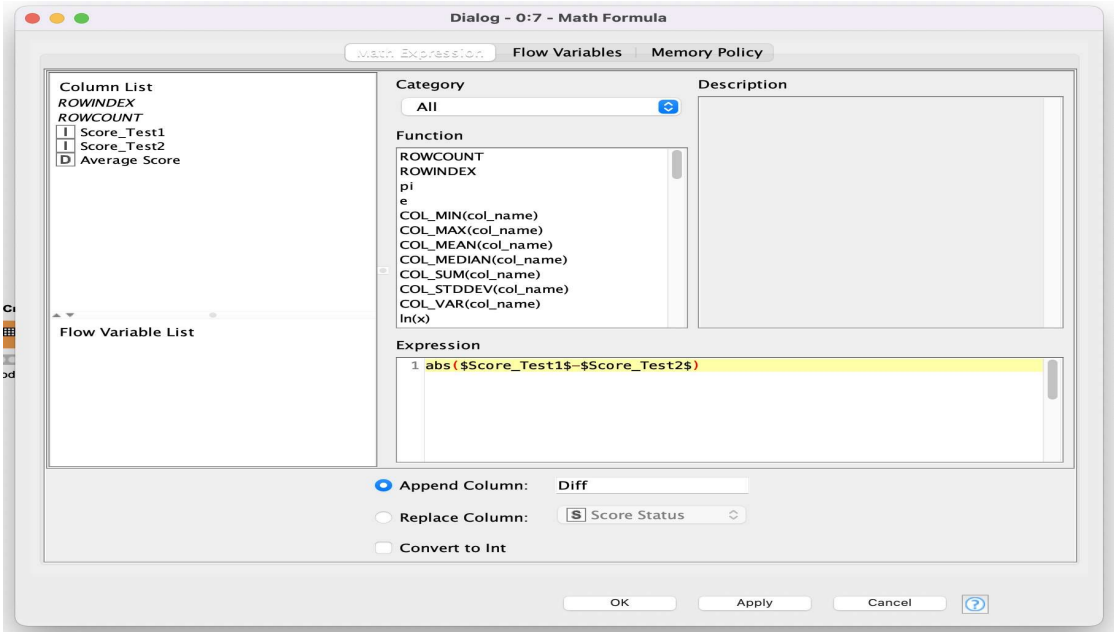
2)Math Formula(Average Calc)



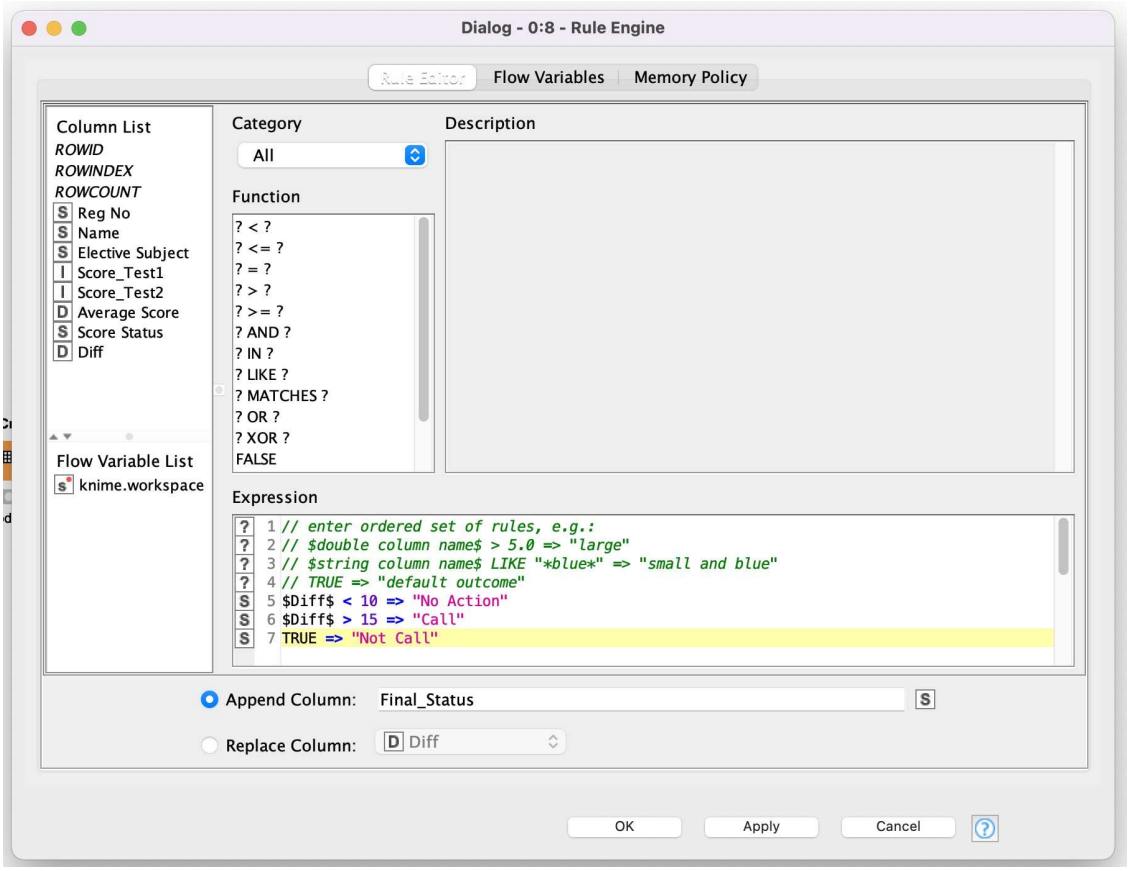
3) Rule Engine(Status Checker)



4)Math Formula(Difference)

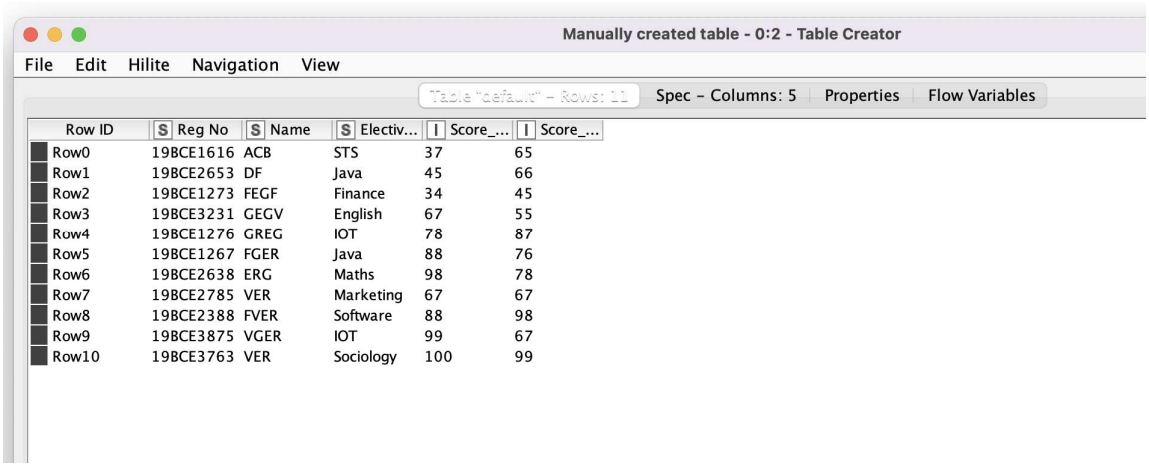


5) Rule Engine(Status Checker)



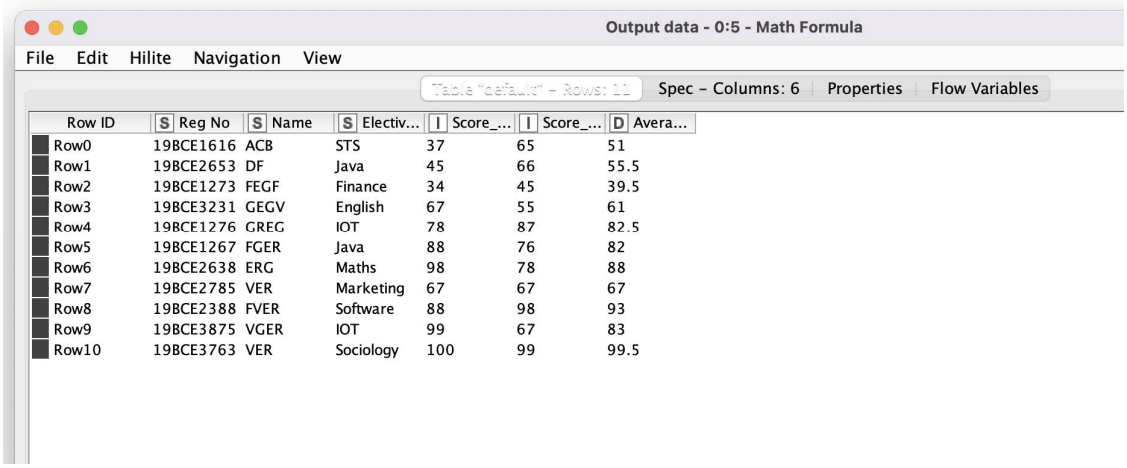
Outputs:-

1)Table Creator



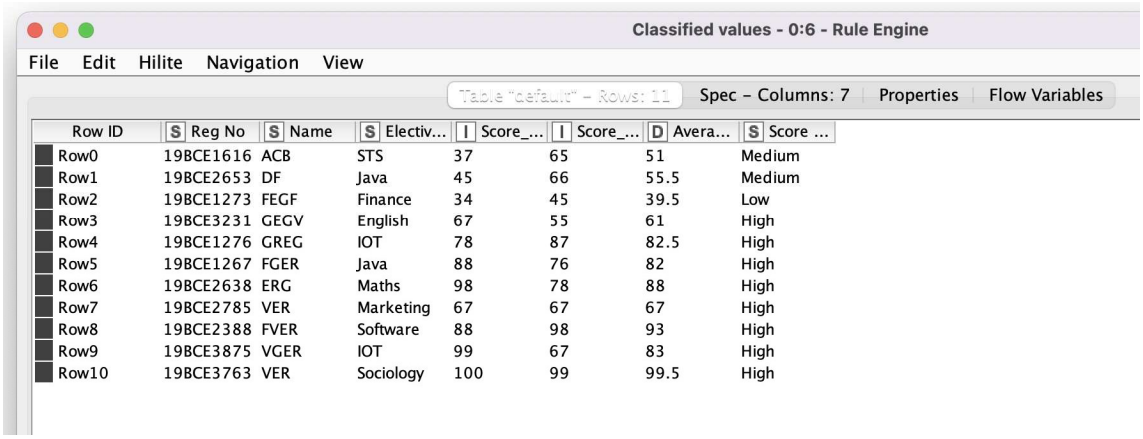
Row ID	Reg No	Name	Electiv...	Score_...	Score_...
Row0	19BCE1616	ACB	STS	37	65
Row1	19BCE2653	DF	Java	45	66
Row2	19BCE1273	FEGF	Finance	34	45
Row3	19BCE3231	GEGV	English	67	55
Row4	19BCE1276	GREG	IOT	78	87
Row5	19BCE1267	FGER	Java	88	76
Row6	19BCE2638	ERG	Maths	98	78
Row7	19BCE2785	VER	Marketing	67	67
Row8	19BCE2388	FVER	Software	88	98
Row9	19BCE3875	VGER	IOT	99	67
Row10	19BCE3763	VER	Sociology	100	99

2)Math Formula(Average Calc)



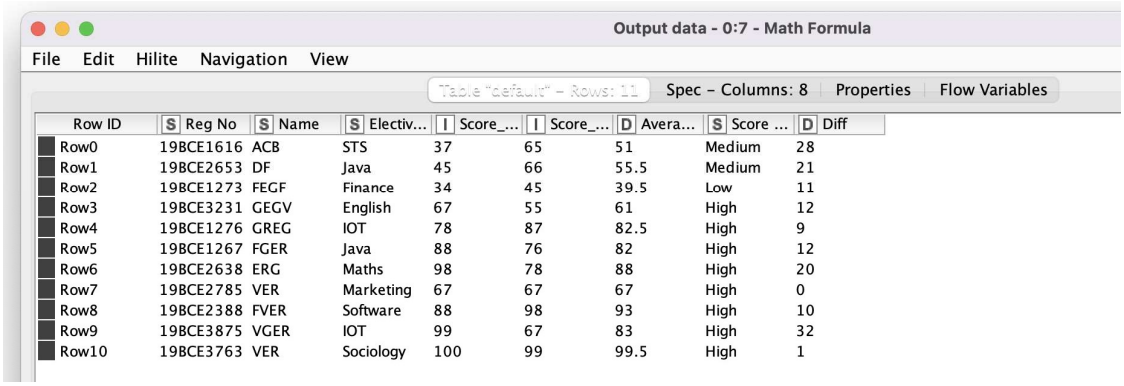
Row ID	Reg No	Name	Electiv...	Score_...	Score_...	Avera...
Row0	19BCE1616	ACB	STS	37	65	51
Row1	19BCE2653	DF	Java	45	66	55.5
Row2	19BCE1273	FEGF	Finance	34	45	39.5
Row3	19BCE3231	GEGV	English	67	55	61
Row4	19BCE1276	GREG	IOT	78	87	82.5
Row5	19BCE1267	FGER	Java	88	76	82
Row6	19BCE2638	ERG	Maths	98	78	88
Row7	19BCE2785	VER	Marketing	67	67	67
Row8	19BCE2388	FVER	Software	88	98	93
Row9	19BCE3875	VGER	IOT	99	67	83
Row10	19BCE3763	VER	Sociology	100	99	99.5

3) Rule Engine(Status Checker)



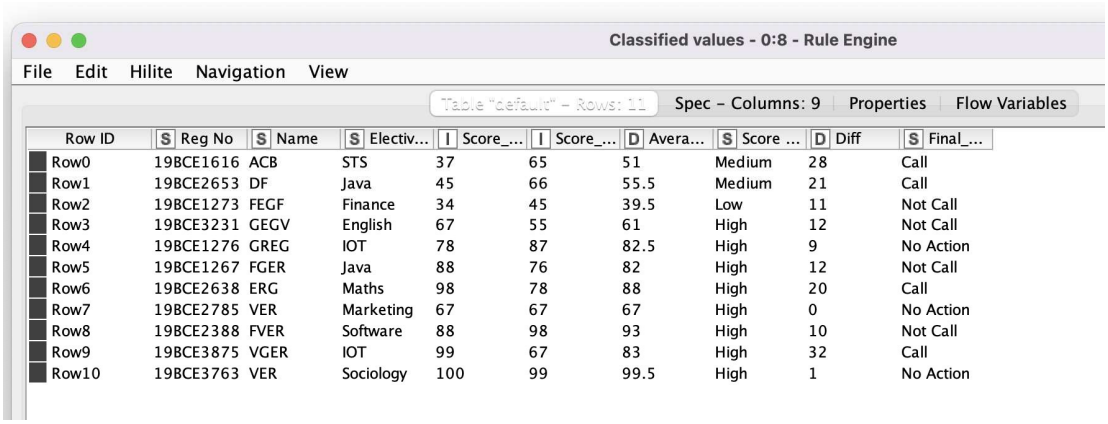
Row ID	Reg No	Name	Electiv...	Score_...	Score_...	Avera...	Score ...
Row0	19BCE1616	ACB	STS	37	65	51	Medium
Row1	19BCE2653	DF	Java	45	66	55.5	Medium
Row2	19BCE1273	FEGF	Finance	34	45	39.5	Low
Row3	19BCE3231	GEGV	English	67	55	61	High
Row4	19BCE1276	GREG	IOT	78	87	82.5	High
Row5	19BCE1267	FGER	Java	88	76	82	High
Row6	19BCE2638	ERG	Maths	98	78	88	High
Row7	19BCE2785	VER	Marketing	67	67	67	High
Row8	19BCE2388	FVER	Software	88	98	93	High
Row9	19BCE3875	VGER	IOT	99	67	83	High
Row10	19BCE3763	VER	Sociology	100	99	99.5	High

4)Math Formula(Difference)



Row ID	Reg No	Name	Electiv...	Score_...	Score_...	Avera...	Score ...	Diff
Row0	19BCE1616	ACB	STS	37	65	51	Medium	28
Row1	19BCE2653	DF	Java	45	66	55.5	Medium	21
Row2	19BCE1273	FEGF	Finance	34	45	39.5	Low	11
Row3	19BCE3231	GEGV	English	67	55	61	High	12
Row4	19BCE1276	GREG	IOT	78	87	82.5	High	9
Row5	19BCE1267	FGER	Java	88	76	82	High	12
Row6	19BCE2638	ERG	Maths	98	78	88	High	20
Row7	19BCE2785	VER	Marketing	67	67	67	High	0
Row8	19BCE2388	FVER	Software	88	98	93	High	10
Row9	19BCE3875	VGER	IOT	99	67	83	High	32
Row10	19BCE3763	VER	Sociology	100	99	99.5	High	1

5) Rule Engine(Status Checker)



Row ID	Reg No	Name	Electiv...	Score_...	Score_...	Avera...	Score ...	Diff	Final_...
Row0	19BCE1616	ACB	STS	37	65	51	Medium	28	Call
Row1	19BCE2653	DF	Java	45	66	55.5	Medium	21	Call
Row2	19BCE1273	FEGF	Finance	34	45	39.5	Low	11	Not Call
Row3	19BCE3231	GEGV	English	67	55	61	High	12	Not Call
Row4	19BCE1276	GREG	IOT	78	87	82.5	High	9	No Action
Row5	19BCE1267	FGER	Java	88	76	82	High	12	Not Call
Row6	19BCE2638	ERG	Maths	98	78	88	High	20	Call
Row7	19BCE2785	VER	Marketing	67	67	67	High	0	No Action
Row8	19BCE2388	FVER	Software	88	98	93	High	10	Not Call
Row9	19BCE3875	VGER	IOT	99	67	83	High	32	Call
Row10	19BCE3763	VER	Sociology	100	99	99.5	High	1	No Action