Maimoona Khilji
BS-DS
Semester 6

Lab Submission 03

Instructor: Basit Ali

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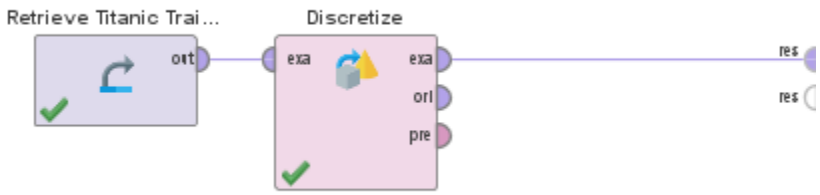
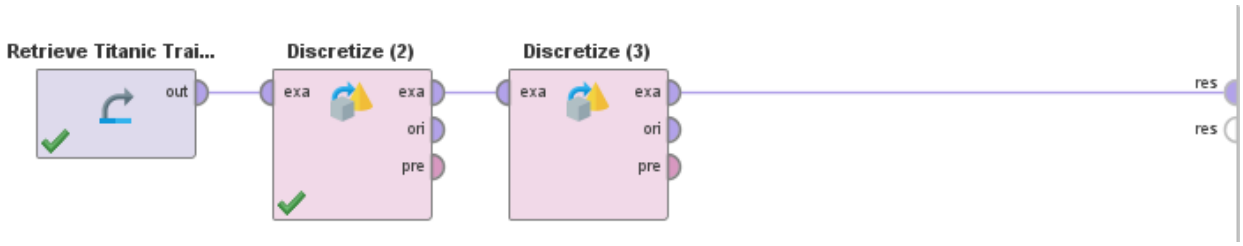
1. Create 3 bins of age:



Row No.	Survived	Age	Passenger ...	Sex	No of Sibling...	No of Parent...	Passenger F...
1	Yes	range2 [26.7...	First	Female	0	0	211.338
2	No	range1 [-∞ - 2...	First	Female	1	2	151.550
3	No	range2 [26.7...	First	Male	1	2	151.550
4	No	range1 [-∞ - 2...	First	Female	1	2	151.550
5	Yes	range2 [26.7...	First	Male	0	0	26.550

2. Create 5 bins of age and passenger fare:



Row No.	Survived	Passenger Fare	Age	Passenger ...	Sex	No of Sibling...	No of Parent...
1	Yes	range3 [204.932 - 307.398]	range2 [16.133 - 32.100]	First	Female	0	0
2	No	range2 [102.466 - 204.932]	range1 [-∞ - 16.133]	First	Female	1	2
3	No	range2 [102.466 - 204.932]	range2 [16.133 - 32.100]	First	Male	1	2
4	No	range2 [102.466 - 204.932]	range2 [16.133 - 32.100]	First	Female	1	2
5	Yes	range1 [-∞ - 102.466]	range3 [32.100 - 48.067]	First	Male	0	0

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3. show range of 5 bins of age and passenger fare:

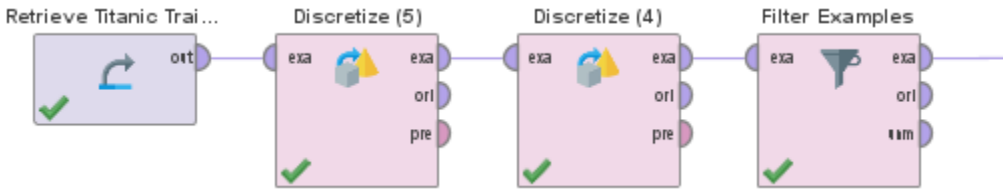
Passenger Fare:

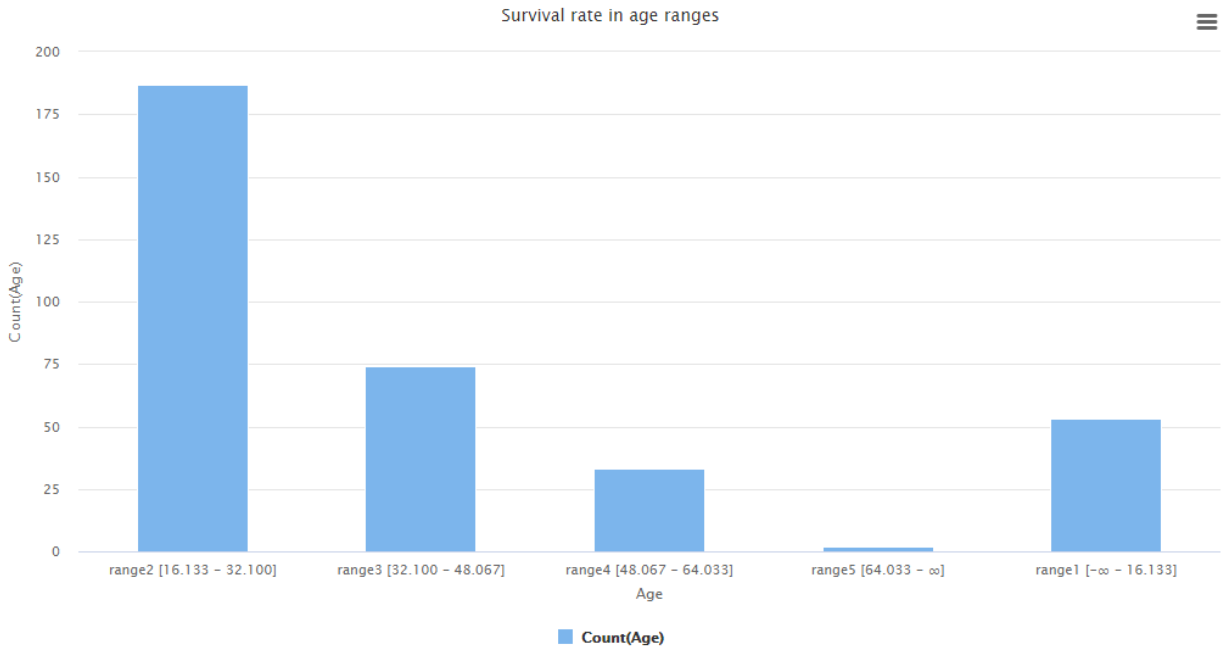
- range1 [-∞ - 102.466]
- range2 [102.466 - 204.932]
- range3 [204.932 - 307.398]
- range5 [409.863 - ∞]

Age:

- range1 [-∞ - 16.133]
- range4 [48.067 - 64.033]
- range3 [32.100 - 48.067]
- range2 [16.133 - 32.100]
- range5 [64.033 - ∞]

4. Display the age range in which the rate of survival is maximum:





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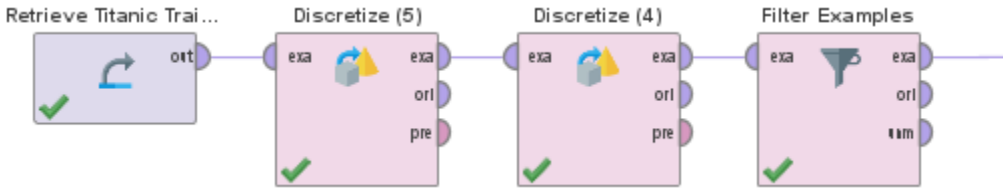
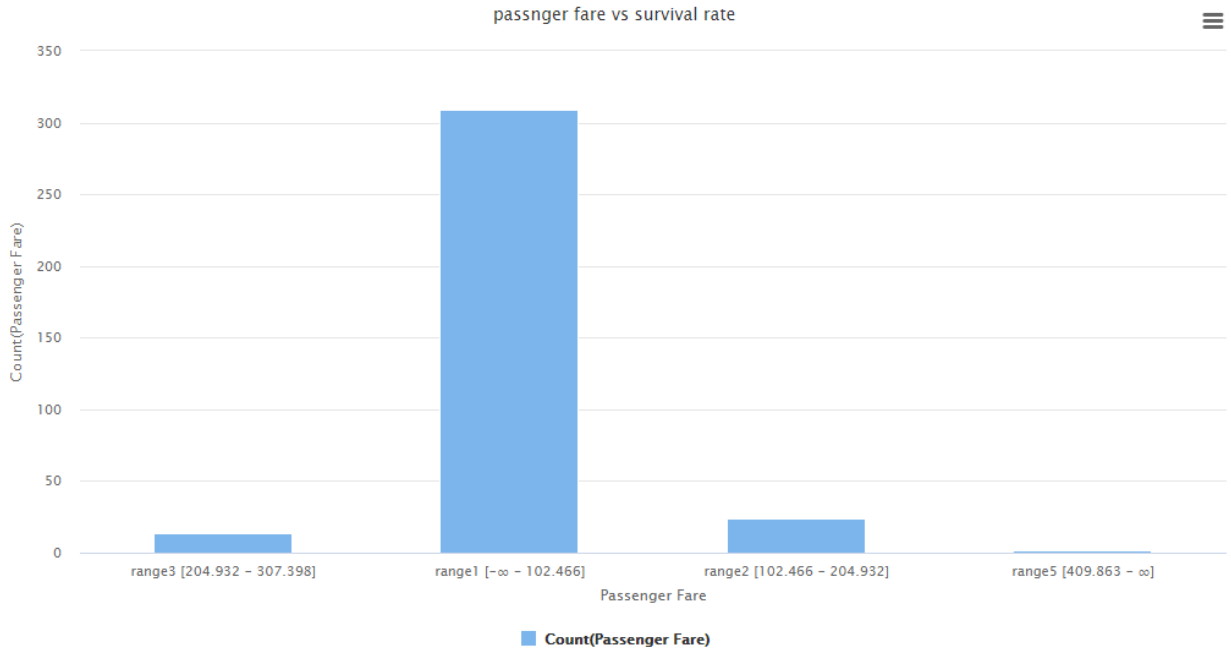
5. **Display the passenger range in which the rate of survival is maximum:**





6. Identify what are the possible role for other attributes.

- Survived => label
- Age=> weight role
- Passenger Class=>batch role
- Sex=>prediction

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- No, of Siblings or spouses on board=> cluster role
- No. of parents or children on board=> cluster role
- Passenger Fare=>weight role
