

Student Academic year Analysis

(Mini project of R language)

Course Code : 3CP05

Course Title : R language

Year : 3Rd

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Features:

1) Database:

We created a database of students of 2nd year, computer engineering students of BVM. Which includes Name , Id , mobile no, spi of 3rd sem, spi of 4th sem, cpi of 2 years.

There are total 83 entries are there in table.

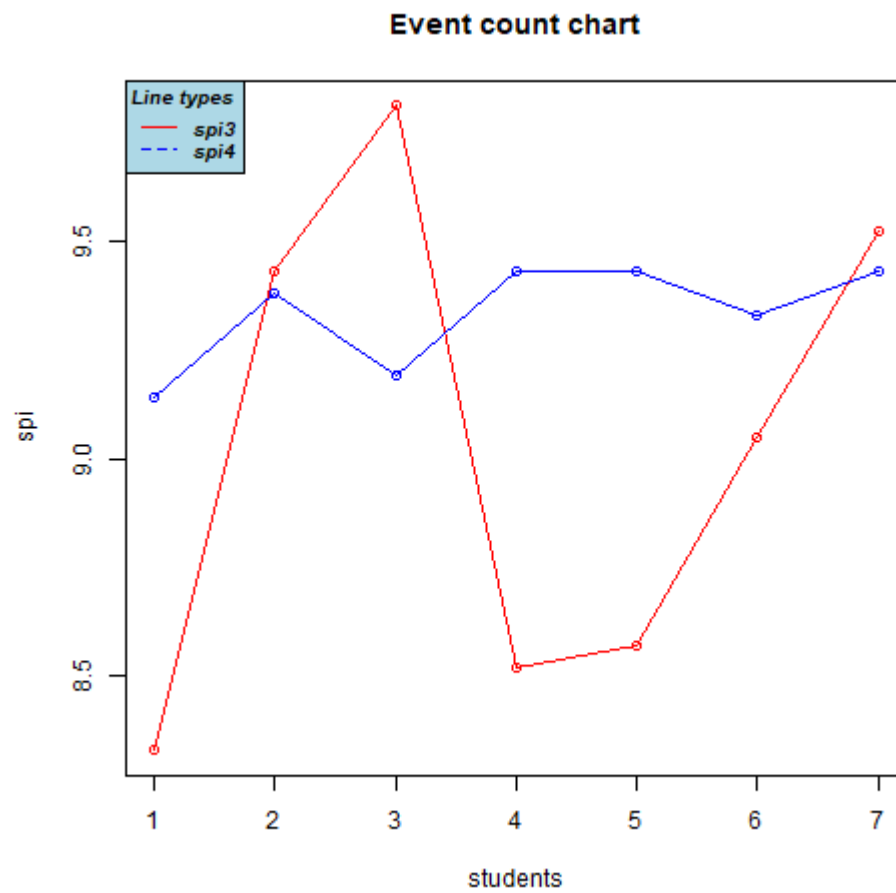
2) CRUD Operation

By taking input from the users, we can able to insert , delete entries, update entries and read the whole entries.

3) Queries :

We perform some queries like:

- i) Find the average CPI of class.
- ii) find who is the topper of 2nd year in computer department of BVM.
- iii) Compare results of 3rd & 4th sem of each students.
Which students result is improved or decreased.
On the basis of that, we created multiple line Graph to compare results.



- iv) Find out how many students get Backlog in 2nd year, on basis of that, generate a csv file called backlog which contain all the students details who got backlog.
- v) On the basis of CPI, give each students a particular grade on the basis of following criteria:
- CPI \geq 9.00 , A grade
 - 8.00 \leq CPI \leq 9.00 , B grade
 - 7.00 \leq CPI \leq 8.00 , C grade
 - 6.00 \leq CPI \leq 7.00 , D grade
 - 5.00 \leq CPI \leq 6.00 , E grade (fail)

On the basis of result, generate a pie chart and bar chart.

