## Attribute Information:

- 1. school student's school (binary: 'GP' Gabriel Pereira or 'MS' Mousinho da Silveira)
- 2. sex student's sex (binary: 'F' female or 'M' male)
- 3. age student's age (numeric: from 15 to 22)
- 4. address student's home address type (binary: 'U' urban or 'R' rural)
- 5. famsize family size (binary: 'LE3' less or equal to 3 or 'GT3' greater than 3)
- 6. Pstatus parent's cohabitation status (binary: 'T' living together or 'A' apart)
- 7. Medu mother's education (numeric: 0 none, 1 primary education (4th grade), 2 5th to 9th grade, 3 secondary education or 4 higher education)
- 8. Fedu father's education (numeric: 0 none, 1 primary education (4th grade), 2 5th to 9th grade, 3 secondary education or 4 higher education)
- 9. Mjob mother's job (nominal: 'teacher', 'health' care related, civil 'services' (e.g. administrative or police), 'at\_home' or 'other')
- 10. Fjob father's job (nominal: 'teacher', 'health' care related, civil 'services' (e.g. administrative or police), 'at home' or 'other')
- 11. reason reason to choose this school (nominal: close to 'home', school 'reputation', 'course' preference or 'other')
- 12. guardian student's guardian (nominal: 'mother', 'father' or 'other')
- 13. traveltime home to school travel time (numeric: 1 <15 min., 2 15 to 30 min., 3 30 min. to 1 hour, or 4 >1 hour)
- 14. studytime weekly study time (numeric: 1 <2 hours, 2 2 to 5 hours, 3 5 to 10 hours, or 4 >10 hours)
- 15. failures number of past class failures (numeric: n if 1<=n<3, else 4)
- 16. schoolsup extra educational support (binary: yes or no)
- 17. famsup family educational support (binary: yes or no)
- 18. paid extra paid classes within the course subject (Math or Portuguese) (binary: yes or no)
- 19. activities extra-curricular activities (binary: yes or no)
- 20. nursery attended nursery school (binary: yes or no)
- 21. higher wants to take higher education (binary: yes or no)
- 22. internet Internet access at home (binary: yes or no)
- 23. romantic with a romantic relationship (binary: yes or no)
- 24. famrel quality of family relationships (numeric: from 1 very bad to 5 excellent)
- 25. freetime free time after school (numeric: from 1 very low to 5 very high)
- 26. goout going out with friends (numeric: from 1 very low to 5 very high)
- 27. Dalc workday alcohol consumption (numeric: from 1 very low to 5 very high)
- 28. Walc weekend alcohol consumption (numeric: from 1 very low to 5 very high)
- 29. health current health status (numeric: from 1 very bad to 5 very good)
- 30. absences number of school absences (numeric: from 0 to 93)

these grades are related with the course subject, Math or Portuguese:

- 1. G1 first period grade (numeric: from 0 to 20)
- 2. G2 second period grade (numeric: from 0 to 20)
- 3. G3 final grade (numeric: from 0 to 20, output target)