Low FI < .03 < med FI < .06 < high FI

Low abs corr < .07 <med corr < .12 < high corr

These are completely relative measures in relation to this data

Corr and FI values only really appropriate in cases where data is at least somewhat ordinal, or where cardinality is relatively low.

Further analysis can determine distributions of variables

Student ID

1- Student Age (1: 18-21, 2: 22-25, 3: above 26)

Ordinal, only three values, low FI, shouldn’t need 1he, not very balanced, could be reduced

2- Sex (1: female, 2: male)

Binary, seems quite relevant, already big difference between values, might need 1he, or just switch to Male

3- Graduated high-school type: (1: private, 2: state, 3: other)

Not ordinal. highly unbalanced. High corr? Low FI

4- Scholarship type: (1: None, 2: 25%, 3: 50%, 4: 75%, 5: Full)

Low FI, lowCorr, ordinal, not balanced, could be condensed

5- Additional work: (1: Yes, 2: No)

Binary, balanced, high FI, hicorr

6- Regular artistic or sports activity: (1: Yes, 2: No)

Binary low FI locorr, balanced

7- Do you have a partner: (1: Yes, 2: No)

Binary med FI lowcorr, balanced

8- Total salary if available (1: USD 135-200, 2: USD 201-270, 3: USD 271-340, 4: USD 341-410, 5: above 410)

Ordinal ZFI, unbalanced, hicorr

9- Transportation to the university: (1: Bus, 2: Private car/taxi, 3: bicycle, 4: Other)

Non ordinal LOFI Hicorr moderately unbalanced

10- Accommodation type in Cyprus: (1: rental, 2: dormitory, 3: with family, 4: Other)

Non ordinal LOFI locorr. Only 1 other, otherwise balanced

11- Mothers education: (1: primary school, 2: secondary school, 3: high school, 4: university, 5: MSc., 6: Ph.D.)

Ordinal HiFI locorr a bit unbalanced

12- Father's education: (1: primary school, 2: secondary school, 3: high school, 4: university, 5: MSc., 6: Ph.D.)

Ordinal HIFI locorr balanced

13- Number of sisters/brothers (if available): (1: 1, 2:, 2, 3: 3, 4: 4, 5: 5 or above)

Ordinal medFI medcorr balanced

14- Parental status: (1: married, 2: divorced, 3: died - one of them or both)

Nonord zeroFI locorr very unbalanced

15- Mothers occupation: (1: retired, 2: housewife, 3: government officer, 4: private sector employee, 5: self-employment, 6: other)

Nonord medFI locorrr very unbalanced

16- Fathers occupation: (1: retired, 2: government officer, 3: private sector employee, 4: self-employment, 5: other)

Nonord LOFI locorr balanced

17- Weekly study hours: (1: None, 2: <5 hours, 3: 6-10 hours, 4: 11-20 hours, 5: more than 20 hours)

Ordinal LOFI locorr moderately unbalanced

18- Reading frequency (non-scientific books/journals): (1: None, 2: Sometimes, 3: Often)

Ordinal MEDFI hicorr very unbalanced

19- Reading frequency (scientific books/journals): (1: None, 2: Sometimes, 3: Often)

Ordinal LOFI locorr(real low) very unbalanced

20- Attendance to the seminars/conferences related to the department: (1: Yes, 2: No)

Binary ZFI hicorr moderately unbalanced

21- Impact of your projects/activities on your success: (1: positive, 2: negative, 3: neutral)

Out of ord ZFI hicorr unbalanced

22- Attendance to classes (1: always, 2: sometimes, 3: never)

Ordinal LOFI hicorr very unbalanced(0? sometimes)

23- Preparation to midterm exams 1: (1: alone, 2: with friends, 3: not applicable)

Nonord MEDFI locorr very unbalanced

24- Preparation to midterm exams 2: (1: closest date to the exam, 2: regularly during the semester, 3: never)

Nonord ZFI medcorr very unbalanced

25- Taking notes in classes: (1: never, 2: sometimes, 3: always)

Ordinal MedFI locorr moderately unbalanced

26- Listening in classes: (1: never, 2: sometimes, 3: always)

Ordinal HIFI medcorr balanced

27- Discussion improves my interest and success in the course: (1: never, 2: sometimes, 3: always)

Ordinal MedFI hicorr moderately unbalanced

28- Flip-classroom: (1: not useful, 2: useful, 3: not applicable)

Nonordinal MedFI medcorr balanced

31- Course ID

HIFI moderately unbalanced, hicorr

32- OUTPUT Grade (0: Fail, 1: DD, 2: DC, 3: CC, 4: CB, 5: BB, 6: BA, 7: AA)

Non ordinal, might need 1HE:

3, 9, 10, 14, 15, 16, 23, 24, 28

BROADPVAL data

1- Student Age (1: 18-21, 2: 22-25, 3: above 26)

2- Sex (0: female, 1: male)

4- Scholarship type: (1: None, 2: 25%, 3: 50%, 4: 75%, 5: Full)

7- Has a partner: (0:No, 1: Yes)

8- Total salary if available (1: USD 135-200, 2: USD 201-270, 3: USD 271-340, 4: USD 341-410, 5: above 410)

9- Transportation to the university: (1: Bus, 2: Private car/taxi, 3: Other(incl Bicycle))

10- Accommodation type in Cyprus: (1: rental, 2: dormitory, 3: with family or Other)

11- Mothersâ€™ education: (1: primary school, 2: secondary school, 3: high school, 4: university, 5: MSc., 6: Ph.D.)

15- Mothersâ€™ occupation: (1: retired or self employed, 2: housewife, 3: government officer, 4: private sector employee)

17- Weekly study hours: (1: None, 2: <5 hours, 3: 6-10 hours, 4: 11-20 hours, 5: more than 20 hours)

18- Reading frequency (non-scientific books/journals): (1: None, 2: Sometimes, 3: Often)

19- Reading frequency (scientific books/journals): (1: None, 2: Sometimes, 3: Often)

21- Impact of your projects/activities on your success: (1: positive, 2: negative, 3: neutral)

23- Preparation to midterm exams 1: (1: alone, 2: with friends, 3: not applicable)

25- Taking notes in classes: (1: never, 2: sometimes, 3: always)

31- Course ID

32- OUTPUT Grade (0: Fail, 1: DD, 2: DC, 3: CC, 4: CB, 5: BB, 6: BA, 7: AA)