CHAPTER-3

STATISTICAL ANALYSIS OF THE DATA

The aim of this chapter is to test the association between the linguistic variables (kinship terms) and each sociological variable (class, caste, education and age) under study, using the appropriate statistical technique. The linguistic variables and the sociological variables (ref.sec.2.2) are referred to as categories. The statistical technique that has been found to be appropriate for this study is called the Chi-Square (represented as $X^2$) test (ref.sec.2.6.1). The chi-square test is a technique, for testing the significance of association between variables. It enables researchers to ascertain whether the frequencies of occurrence of different variants of a variable are a matter of chance or whether there is a significant relationship between the variables under consideration. In this study we are testing the significance of the frequencies of usage of various terms of address by people of different classes, castes, age groups and educational categories. The chi-square test can only be applied in cases where each category has more than one sub-category.

In this technique if the obtained value of chi-square is found to be significant, the null hypothesis that the kinship term is independent of a particular variable is rejected, implying that there is some significant association between the two variables. Conversely, if the chi-square value is small and insignificant, the null hypothesis is retained implying that there is no adequate evidence to reject the hypothesis. When the chi-square value is high, the null hypothesis may be rejected.
with a high level of confidence.

The confidence level or reliability level, is the expected percentage of times that the actual value will fall within the stated precision limits. Thus a confidence level of ninety five percent means that there are ninety five chances in hundred (or .95 in 1) that the sample results represent the true condition of the population within a specified precision range, against five in hundred (or .05 in 1) that it does not. A confidence level of ninety nine percent means that there are ninety nine chances in hundred (or .99 in 1) that the sample results represent the true condition of the population within a specified precision range, against one in hundred (or 0.01 in 1) that it does not.

We will first posit null hypotheses and further on test the validity of these hypotheses:

3.1.1 Relationship between kinship terms and class

Hypothesis 1.1 The kinship term 'Mo' is independent of the variable class.

Hypothesis 1.2 The kinship term 'Fa' is independent of the variable class.

Hypothesis 1.3 The kinship term 'Mo Mo' is independent of the variable class.

Hypothesis 1.4 The kinship term 'Mo Fa' is independent of the variable class.

Hypothesis 1.5 The kinship term 'Mo eld Si' is independent of the variable class.

Hypothesis 1.6 The kinship term 'Mo eld Si Hu' is independent
of the variable class.

**Hypothesis 1.7** The kinship term 'Mo yon Si' is independent of the variable class.

**Hypothesis 1.8** The kinship term 'Mo yon Si Hu' is independent of the variable class.

**Hypothesis 1.9** The kinship term 'Mo yon Br' is independent of the variable class.

**Hypothesis 1.10** The kinship term 'Mo eld Br' is independent of the variable class.

**Hypothesis 1.11** The kinship term 'Mat Unc Wi' is independent of the variable class.

**Hypothesis 1.12** The kinship term 'Fa Mo' is independent of the variable class.

**Hypothesis 1.13** The kinship term 'Fa Fa' is independent of the variable class.

**Hypothesis 1.14** The kinship term 'Fa eld Br' is independent of the variable class.

**Hypothesis 1.15** The kinship term 'Fa yon Br' is independent of the variable class.

**Hypothesis 1.16** The kinship term 'Fa eld Si' is independent of the variable class.

**Hypothesis 1.17** The kinship term 'Fa yon Si' is independent of the variable class.

**Hypothesis 1.18** The kinship term 'Pat Ant Hu' is independent of the variable class.

**Hypothesis 1.19** The kinship term 'Fa eld Br Wi' is independent of the variable class.
Hypothesis 1.20  The kinship term 'Fa yon Br Wi' is independent of the variable class.

Hypothesis 1.21  The kinship term 'Wi' is independent of the variable class.

Hypothesis 1.22  The kinship term 'Hu' is independent of the variable class.

Hypothesis 1.23  The kinship term 'Wi eld Br' is independent of the variable class.

Hypothesis 1.24  The kinship term 'Wi yon Br' is independent of the variable class.

Hypothesis 1.25  The kinship term 'Wi eld Si' is independent of the variable class.

Hypothesis 1.26  The kinship term 'Wi yon Si' is independent of the variable class.

Hypothesis 1.27  The kinship term 'Wi Fa' is independent of the variable class.

Hypothesis 1.28  The kinship term 'Wi Mo' is independent of the variable class.

Hypothesis 1.29  The kinship term 'Hu eld Br' is independent of the variable class.

Hypothesis 1.30  The kinship term 'Hu yon Br' is independent of the variable class.

Hypothesis 1.31  The kinship term 'Hu eld Si' is independent of the variable class.

Hypothesis 1.32  The kinship term 'Hu yon Si' is independent of the variable class.

Hypothesis 1.33  The kinship term 'Hu Mo' is independent of the variable class.
Hypothesis 1.34  The kinship term 'Hu Fa' is independent of the variable class.
Hypothesis 1.35  The kinship term 'Si-in-law' is independent of the variable class.
Hypothesis 1.36  The kinship term 'Br-in-law' is independent of the variable class.
Hypothesis 1.37  The kinship term 'Mat Unc So' is independent of the variable class.
Hypothesis 1.38  The kinship term 'Pat Ant So' is independent of the variable class.
Hypothesis 1.39  The kinship term 'Mat Unc Da' is independent of the variable class.
Hypothesis 1.40  The kinship term 'Pat Ant Da' is independent of the variable class.
Hypothesis 1.41  The kinship term 'eld Si' is independent of the variable class.
Hypothesis 1.42  The kinship term 'yon Si' is independent of the variable class.
Hypothesis 1.43  The kinship term 'eld Si Hu' is independent of the variable class.
Hypothesis 1.44  The kinship term 'yon Si Hu' is independent of the variable class.
Hypothesis 1.45  The kinship term 'Si So' is independent of the variable class.
Hypothesis 1.46  The kinship term 'Si Da' is independent of the variable class.
Hypothesis 1.47  The kinship term 'Br So' is independent of
Hypothesis 1.48  The kinship term 'Br Da' is independent of the variable class.
Hypothesis 1.49  The kinship term 'eld Br' is independent of the variable class.
Hypothesis 1.50  The kinship term 'yon Br' is independent of the variable class.
Hypothesis 1.51  The kinship term 'eld Br Wi' is independent of the variable class.
Hypothesis 1.52  The kinship term 'yon Br Wi' is independent of the variable class.
Hypothesis 1.53  The kinship term 'So' is independent of the variable class.
Hypothesis 1.54  The kinship term 'Da' is independent of the variable class.
Hypothesis 1.55  The kinship term 'So-in-law' is independent of the variable class.
Hypothesis 1.56  The kinship term 'Da-in-law' is independent of the variable class.
Hypothesis 1.57  The kinship term 'Ch Fa-in-law' is independent of the variable class.
Hypothesis 1.58  The kinship term 'Ch Mo-in-law' is independent of the variable class.

3.1.2 Relationship between kinship terms and caste

Hypothesis 2.1  The kinship term 'Mo' is independent of the variable caste.
Hypothesis 2.2  The kinship term 'Fa' is independent of the variable caste.
Hypothesis 2.3  The kinship term 'Mo Mo' is independent of the variable caste.
Hypothesis 2.4  The kinship term 'Mo Fa' is independent of the variable caste.
Hypothesis 2.5  The kinship term 'Mo eld Si' is independent of the variable caste.
Hypothesis 2.6  The kinship term 'Mo eld Si Hu' is independent of the variable caste.
Hypothesis 2.7  The kinship term 'Mo yon Si' is independent of the variable caste.
Hypothesis 2.8  The kinship term 'Mo yon Si Hu' is independent of the variable caste.
Hypothesis 2.9  The kinship term 'Mo yon Br' is independent of the variable caste.
Hypothesis 2.10 The kinship term 'Mo eld Br' is independent of the variable caste.
Hypothesis 2.11 The kinship term 'Mat Unc Wi' is independent of the variable caste.
Hypothesis 2.12 The kinship term 'Fa Mo' is independent of the variable caste.
Hypothesis 2.13 The kinship term 'Fa Fa' is independent of the variable caste.
Hypothesis 2.14 The kinship term 'Fa eld Br' is independent of the variable caste.
Hypothesis 2.15 The kinship term 'Fa yon Br' is independent of the variable caste.
Hypothesis 2.16 The kinship term 'Fa eld Si' is independent
of the variable caste.

**Hypothesis 2.17** The kinship term 'Fa yon Si' is independent of the variable caste.

**Hypothesis 2.18** The kinship term 'Pat Ant Hu' is independent of the variable caste.

**Hypothesis 2.19** The kinship term 'Fa eld Br Wi' is independent of the variable caste.

**Hypothesis 2.20** The kinship term 'Fa yon Br Wi' is independent of the variable caste.

**Hypothesis 2.21** The kinship term 'Wi' is independent of the variable caste.

**Hypothesis 2.22** The kinship term 'Hu' is independent of the variable caste.

**Hypothesis 2.23** The kinship term 'Wi eld Br' is independent of the variable caste.

**Hypothesis 2.24** The kinship term 'Wi yon Br' is independent of the variable caste.

**Hypothesis 2.25** The kinship term 'Wi eld Si' is independent of the variable caste.

**Hypothesis 2.26** The kinship term 'Wi yon Si' is independent of the variable caste.

**Hypothesis 2.27** The kinship term 'Wi Fa' is independent of the variable caste.

**Hypothesis 2.28** The kinship term 'Wi Mo' is independent of the variable caste.

**Hypothesis 2.29** The kinship term 'Hu eld Br' is independent of the variable caste.

**Hypothesis 2.30** The kinship term 'Hu yon Br' is independent
of the variable caste.

Hypothesis 2.31 The kinship term 'Hu eld Si' is independent of the variable caste.

Hypothesis 2.32 The kinship term 'Hu yon Si' is independent of the variable caste.

Hypothesis 2.33 The kinship term 'Hu Mo' is independent of the variable caste.

Hypothesis 2.34 The kinship term 'Hu Fa' is independent of the variable caste.

Hypothesis 2.35 The kinship term 'Si-in-law' is independent of the variable caste.

Hypothesis 2.36 The kinship term 'Br-in-law' is independent of the variable caste.

Hypothesis 2.37 The kinship term 'Mat Unc So' is independent of the variable caste.

Hypothesis 2.38 The kinship term 'Pat Ant So' is independent of the variable caste.

Hypothesis 2.39 The kinship term 'Mat Unc Da' is independent of the variable caste.

Hypothesis 2.40 The kinship term 'Pat Ant Da' is independent of the variable caste.

Hypothesis 2.41 The kinship term 'eld Si' is independent of the variable caste.

Hypothesis 2.42 The kinship term 'yon Si' is independent of the variable caste.

Hypothesis 2.43 The kinship term 'eld Si Hu' is independent of the variable caste.

Hypothesis 2.44 The kinship term 'yon Si Hu' is independent
of the variable caste.

**Hypothesis 2.45**  The kinship term 'Si So' is independent of the variable caste.

**Hypothesis 2.46**  The kinship term 'Si Da' is independent of the variable caste.

**Hypothesis 2.47**  The kinship term 'Br So' is independent of the variable caste.

**Hypothesis 2.48**  The kinship term 'Br Da' is independent of the variable caste.

**Hypothesis 2.49**  The kinship term 'eld Br' is independent of the variable caste.

**Hypothesis 2.50**  The kinship term 'yon Br' is independent of the variable caste.

**Hypothesis 2.51**  The kinship term 'eld Br Wi' is independent of the variable caste.

**Hypothesis 2.52**  The kinship term 'yon Br Wi' is independent of the variable caste.

**Hypothesis 2.53**  The kinship term 'So' is independent of the variable caste.

**Hypothesis 2.54**  The kinship term 'Da' is independent of the variable caste.

**Hypothesis 2.55**  The kinship term 'So-in-law' is independent of the variable caste.

**Hypothesis 2.56**  The kinship term 'Da-in-law' is independent of the variable caste.

**Hypothesis 2.57**  The kinship term 'Ch Fa-in-law' is independent of the variable caste.
Hypothesis 2.58 The kinship term 'Ch Mo-in-law' is independent of the variable caste.

3.1.3 Relationship between kinship terms and education

Hypothesis 3.1 The kinship term 'Mo' is independent of the variable education.

Hypothesis 3.2 The kinship term 'Fa' is independent of the variable education.

Hypothesis 3.3 The kinship term 'Mo Mo' is independent of the variable education.

Hypothesis 3.4 The kinship term 'Mo Fa' is independent of the variable education.

Hypothesis 3.5 The kinship term 'Mo eld Si' is independent of the variable education.

Hypothesis 3.6 The kinship term 'Mo eld Si Hu' is independent of the variable education.

Hypothesis 3.7 The kinship term 'Mo yon Si' is independent of the variable education.

Hypothesis 3.8 The kinship term 'Mo yon Si Hu' is independent of the variable education.

Hypothesis 3.9 The kinship term 'Mo yon Br' is independent of the variable education.

Hypothesis 3.10 The kinship term 'Mo eld Br' is independent of the variable education.

Hypothesis 3.11 The kinship term 'Mat Unc Wi' is independent of the variable education.

Hypothesis 3.12 The kinship term 'Fa Mo' is independent of the variable education.
Hypothesis 3.13  The kinship term 'Fa Fa' is independent of the variable education.

Hypothesis 3.14  The kinship term 'Fa eld Br' is independent of the variable education.

Hypothesis 3.15  The kinship term 'Fa yon Br' is independent of the variable education.

Hypothesis 3.16  The kinship term 'Fa eld Si' is independent of the variable education.

Hypothesis 3.17  The kinship term 'Fa yon Si' is independent of the variable education.

Hypothesis 3.18  The kinship term 'Pat Ant Hu' is independent of the variable education.

Hypothesis 3.19  The kinship term 'Fa eld Br Wi' is independent of the variable education.

Hypothesis 3.20  The kinship term 'Fa yon Br Wi' is independent of the variable education.

Hypothesis 3.21  The kinship term 'Wi' is independent of the variable education.

Hypothesis 3.22  The kinship term 'Hu' is independent of the variable education.

Hypothesis 3.23  The kinship term 'Wi eld Br' is independent of the variable education.

Hypothesis 3.24  The kinship term 'Wi yon Br' is independent of the variable education.

Hypothesis 3.25  The kinship term 'Wi eld Si' is independent of the variable education.

Hypothesis 3.26  The kinship term 'Wi yon Si' is independent of the variable education.
Hypothesis 3.27. The kinship term 'Wi Fa' is independent of the variable education.

Hypothesis 3.28. The kinship term 'Wi Mo' is independent of the variable education.

Hypothesis 3.29. The kinship term 'Hu eld Br' is independent of the variable education.

Hypothesis 3.30. The kinship term 'Hu yon Br' is independent of the variable education.

Hypothesis 3.31. The kinship term 'Hu eld Si' is independent of the variable education.

Hypothesis 3.32. The kinship term 'Hu yon Si' is independent of the variable education.

Hypothesis 3.33. The kinship term 'Hu Mo' is independent of the variable education.

Hypothesis 3.34. The kinship term 'Hu Fa' is independent of the variable education.

Hypothesis 3.35. The kinship term 'Si-in-law' is independent of the variable education.

Hypothesis 3.36. The kinship term 'Br-in-law' is independent of the variable education.

Hypothesis 3.37. The kinship term 'Mat Unc So' is independent of the variable education.

Hypothesis 3.38. The kinship term 'Pat Ant So' is independent of the variable education.

Hypothesis 3.39. The kinship term 'Mat Unc Da' is independent of the variable education.

Hypothesis 3.40. The kinship term 'Pat Ant Da' is independent
of the variable education.

Hypothesis 3.41 The kinship term 'eld Si' is independent of the variable education.

Hypothesis 3.42 The kinship term 'yon Si' is independent of the variable education.

Hypothesis 3.43 The kinship term 'eld Si Hu' is independent of the variable education.

Hypothesis 3.44 The kinship term 'yon Si Hu' is independent of the variable education.

Hypothesis 3.45 The kinship term 'Si So' is independent of the variable education.

Hypothesis 3.46 The kinship term 'Si Da' is independent of the variable education.

Hypothesis 3.47 The kinship term 'Br So' is independent of the variable education.

Hypothesis 3.48 The kinship term 'Br Da' is independent of the variable education.

Hypothesis 3.49 The kinship term 'eld Br' is independent of the variable education.

Hypothesis 3.50 The kinship term 'yon Br' is independent of the variable education.

Hypothesis 3.51 The kinship term 'eld Br Wi' is independent of the variable education.

Hypothesis 3.52 The kinship term 'yon Br Wi' is independent of the variable education.

Hypothesis 3.53 The kinship term 'So' is independent of the variable education.

Hypothesis 3.54 The kinship term 'Da' is independent of the
variable education.

Hypothesis 3.55 The kinship term 'So-in-law' is independent of the variable education.

Hypothesis 3.56 The kinship term 'Da-in-law' is independent of the variable education.

Hypothesis 3.57 The kinship term 'Ch Fa-in-law' is independent of the variable education.

Hypothesis 3.58 The kinship term 'Ch Mo-in-law' is independent of the variable education.

3.1.4 Relationship between kinship terms and age

Hypothesis 4.1 The kinship term 'Mo' is independent of the variable age.

Hypothesis 4.2 The kinship term 'Fa' is independent of the variable age.

Hypothesis 4.3 The kinship term 'Mo Mo' is independent of the variable age.

Hypothesis 4.4 The kinship term 'Mo Fa' is independent of the variable age.

Hypothesis 4.5 The kinship term 'Mo eld Si' is independent of the variable age.

Hypothesis 4.6 The kinship term 'Mo eld Si Hu' is independent of the variable age.

Hypothesis 4.7 The kinship term 'Mo yon Si' is independent of the variable age.

Hypothesis 4.8 The kinship term 'Mo yon Si Hu' is independent of the variable age.

Hypothesis 4.9 The kinship term 'Mo yon Br' is independent
of the variable age.

**Hypothesis 4.10**  The kinship term 'Mo eld Br' is independent of the variable age.

**Hypothesis 4.11**  The kinship term 'Mat Unc Wi' is independent of the variable age.

**Hypothesis 4.12**  The kinship term 'Fa Mo' is independent of the variable age.

**Hypothesis 4.13**  The kinship term 'Fa Fa' is independent of the variable age.

**Hypothesis 4.14**  The kinship term 'Fa eld Br' is independent of the variable age.

**Hypothesis 4.15**  The kinship term 'Fa yon Br' is independent of the variable age.

**Hypothesis 4.16**  The kinship term 'Fa eld Si' is independent of the variable age.

**Hypothesis 4.17**  The kinship term 'Fa yon Si' is independent of the variable age.

**Hypothesis 4.18**  The kinship term 'Pat Ant Hu' is independent of the variable age.

**Hypothesis 4.19**  The kinship term 'Fa eld Br Wi' is independent of the variable age.

**Hypothesis 4.20**  The kinship term 'Fa yon Br Wi' is independent of the variable age.

**Hypothesis 4.21**  The kinship term 'Wi' is independent of the variable age.

**Hypothesis 4.22**  The kinship term 'Hu' is independent of the variable age.
Hypothesis 4.23  The kinship term 'Wi eld Br' is independent of the variable age.
Hypothesis 4.24  The kinship term 'Wi yon Br' is independent of the variable age.
Hypothesis 4.25  The kinship term 'Wi eld Si' is independent of the variable age.
Hypothesis 4.26  The kinship term 'Wi yon Si' is independent of the variable age.
Hypothesis 4.27  The kinship term 'Wi Fa' is independent of the variable age.
Hypothesis 4.28  The kinship term 'Wi Mo' is independent of the variable age.
Hypothesis 4.29  The kinship term 'Hu eld Br' is independent of the variable age.
Hypothesis 4.30  The kinship term 'Hu yon Br' is independent of the variable age.
Hypothesis 4.31  The kinship term 'Hu eld Si' is independent of the variable age.
Hypothesis 4.32  The kinship term 'Hu yon Si' is independent of the variable age.
Hypothesis 4.33  The kinship term 'Hu Mo' is independent of the variable age.
Hypothesis 4.34  The kinship term 'Hu Fa' is independent of the variable age.
Hypothesis 4.35  The kinship term 'Si-in-law' is independent of the variable age.
Hypothesis 4.36  The kinship term 'Br-in-law' is independent of the variable age.
Hypothesis 4.37 The kinship term 'Mat Unc So' is independent of the variable age.

Hypothesis 4.38 The kinship term 'Pat Ant So' is independent of the variable age.

Hypothesis 4.39 The kinship term 'Mat Unc Da' is independent of the variable age.

Hypothesis 4.40 The kinship term 'Pat Ant Da' is independent of the variable age.

Hypothesis 4.41 The kinship term 'eld Si' is independent of the variable age.

Hypothesis 4.42 The kinship term 'yon Si' is independent of the variable age.

Hypothesis 4.43 The kinship term 'eld Si Hu' is independent of the variable age.

Hypothesis 4.44 The kinship term 'yon Si Hu' is independent of the variable age.

Hypothesis 4.45 The kinship term 'Si So' is independent of the variable age.

Hypothesis 4.46 The kinship term 'Si Da' is independent of the variable age.

Hypothesis 4.47 The kinship term 'Br So' is independent of the variable age.

Hypothesis 4.48 The kinship term 'Br Da' is independent of the variable age.

Hypothesis 4.49 The kinship term 'eld Br' is independent of the variable age.

Hypothesis 4.50 The kinship term 'yon Br' is independent of
the variable age.

**Hypothesis 4.51** The kinship term 'eld Br Wi' is independent of the variable age.

**Hypothesis 4.52** The kinship term 'yon Br Wi' is independent of the variable age.

**Hypothesis 4.53** The kinship term 'So' is independent of the variable age.

**Hypothesis 4.54** The kinship term 'Da' is independent of the variable age.

**Hypothesis 4.55** The kinship term 'So-in-law' is independent of the variable age.

**Hypothesis 4.56** The kinship term 'Da-in-law' is independent of the variable age.

**Hypothesis 4.57** The kinship term 'Ch Fa-in-law' is independent of the variable age.

**Hypothesis 4.58** The kinship term 'Ch Mo-in-law' is independent of the variable age.

### 3.2 Hypothesis Testing

In this part of the chapter, we will test the relationship between the linguistic variables (terms of address) and the sociological variables (class, caste, education, age). On the basis of the results obtained, the null hypotheses may be retained or rejected.

#### 3.2.1 Testing the relationship between kinship terms and class

**Hypothesis 1.1** The kinship term 'Mo' is independent of the variable class.

**Result** a. The chi-square value between the kinship term 'Mo'
and the variable class = 2.1813

b. It's level of significance for 3 degrees of freedom (d.f) is very low.

Since there is no significant evidence to show that there is an association between the above kinship term and the variable class, the above hypothesis is retained.

**Hypothesis 1.2** The kinship term 'Fa' is independent of the variable class.

**Result** The chi-square value between the kinship term 'Fa' and the variable class = 50.8861

b. It's level of significance for 6 d.f = 0.01

Therefore, there is evidence that the chi-square value between the term 'Fa' and the variable class is highly significant. Hence the above hypothesis that the kinship term 'Fa' is independent of the variable class is rejected with 99 percent confidence.

**Hypothesis 1.3** The kinship term 'Mo Mo' is independent of the variable class.

**Result** a. The chi-square value between the kinship term 'Mo Mo' and the variable class = 33.2877

b. It's level of significance for 3 d.f = 0.01

The result shows that the chi-square value between the term 'Mo Mo' and the variable class is highly significant. Hence the hypothesis may be rejected with 99 percent confidence.

**Hypothesis 1.4** The kinship term 'Mo Fa' is independent of the variable class.

**Result** a. The chi-square value between the term 'Mo Fa' and
the variable class = 17.1343.

b. It's level of significance for 3 d.f = 0.01

There is evidence to show that there is a significant association between the kinship term 'Mo Fa' and class. Hence the above hypothesis that the term 'Mo Fa' is independent of the variable class may be rejected with 99 percent confidence.

**Hypothesis 1.5** The kinship term 'Mo eld Si' is independent of the variable class.

**Result** a. The chi-square value between the kinship term 'Mo eld Si' and the variable class = 4.2698

b. It's level of significance for 3 d.f is very small.

Since the chi-square value is small and not significant the hypothesis that the above term is independent of the variable class, is retained.

**Hypothesis 1.6** The kinship term 'Mo eld Si Hu' is independent of the variable class.

**Result** a. The chi-square value between the term 'Mo eld Si Hu' and the variable class = 35.1996

b. It's level of significance for 3 d.f = 0.01

The obtained chi-square value between the above term and the variable class is highly significant. Hence the hypothesis that the term 'Mo eld Si Hu' is independent of the variable class is rejected with 99 percent confidence.

**Hypothesis 1.7** The kinship term 'Mo yon Si' is independent of the variable class.

**Result** a. The chi-square value between the term 'Mo yon Si' and the variable class = 37.6493

b. It's level of significance for 9 d.f = 0.01
The chi-square value obtained above is highly significant. Hence, the hypothesis that the above term is independent of the variable class is rejected with 99 percent confidence.

**Hypothesis 1.8** The kinship term 'Mo yon Si Hu' is independent of the variable class.

**Result**

a. The chi-square value between the term 'Mo yon Si Hu' and the variable class = 36.4677

b. It's level of significance for 9 d.f = 0.01

The evidence shows that the chi-square value between the above kinship term and the variable class is highly significant. Therefore, the above hypothesis may be rejected with 99 percent confidence.

**Hypothesis 1.9** The kinship term 'Mo yon Br' is independent of the variable class.

**Result**

a. The chi-square value between the kinship term 'Mo yon Br' and the variable class = 32.3013

b. It's level of significance for 6 d.f = 0.01

The chi-square value between the kinship term 'Mo yon Br' and the variable class is highly significant. Hence, the above hypothesis may be rejected with 99 percent confidence.

**Hypothesis 1.10** The kinship term 'Mo eld Br' is independent of the variable class.

**Result**

a. The chi-square value between the term 'Mo eld Br' and the variable class = 36.7346

b. It's level of significance for 6 d.f = 0.01

The result shows that there is a significant association between the kinship term and the variable class. Therefore, the
above hypothesis that the term 'Mo eld Br' is independent of the variable class may be rejected with 99 percent confidence.

**Hypothesis 1.11** The kinship term 'Mat Unc Wi' is independent of the variable class.

**Result**  

a. The chi-square value between the term 'Mat Unc Wi' and the variable class = 37.5330

b. It's level of significance for 9 d.f = 0.01

The obtained chi-square value between the above kinship term and the variable class is highly significant. Therefore, the above hypothesis may be rejected with 99 percent confidence.

**Hypothesis 1.12** The kinship term 'Fa Mo' is independent of the variable class.

**Result**  

a. The chi-square value between the kinship term 'Fa Mo' and the variable class = 42.9887

b. It's level of significance for 12 d.f = 0.01

The evidence shows that there is a highly significant association between the above kinship term and the variable class. Hence the hypothesis that the term 'Fa Mo' is independent of the variable class may be rejected with 99 percent confidence.

**Hypothesis 1.13** The kinship term 'Fa Fa' is independent of the variable class.

**Result**  

a. The chi-square value between the kinship term 'Fa Fa' and the variable class = 22.6714

b. It's level of significance for 6 d.f = 0.01

The above chi-square value between the kinship term and the variable class is highly significant. Hence the hypothesis that the above kinship term is independent of the variable class may be rejected with 99 percent confidence.
Hypothesis 1.14  The kinship term 'Fa eld Br' is independent of the variable class.

Result  a. The chi-square value between the kinship term 'Fa eld Br' and the variable class = 38.0598
b. It's level of significance for 3 d.f = 0.01

The evidence shows that the chi-square value between the kinship term 'Fa eld Br' and the variable class is highly significant. Hence the above hypothesis may be rejected with 99 percent confidence.

Hypothesis 1.15  The kinship term 'Fa yon Br' is independent of the variable class.

Result  a. The chi-square value between the kinship term 'Fa yon Br' and the variable class = 37.3101
b. It's level of significance for 6 d.f = 0.01

The result shows that there is a highly significant association between the above kinship term and the variable class. Therefore, the hypothesis that the term 'Fa yon Br' is independent of the variable class, may be rejected with 99 percent confidence.

Hypothesis 1.16  The kinship term 'Fa eld Si' is independent of the variable class.

Result  a. The chi-square value between the kinship term 'Fa eld Si' and the variable class = 12.8333
b. It's level of significance for 6 d.f = 0.05

The above result shows that the chi-square value obtained is fairly significant. Hence, the above hypothesis that the kinship term 'Fa eld Si' is independent of the variable class may be
rejected with 95 percent confidence.

**Hypothesis 1.17** The kinship term 'Fa yon Si' is independent of the variable class.

**Result**

a. The chi-square value between the kinship term 'Fa yon Si' and the variable class = 12.7516

b. Its level of significance for 6 d.f = 0.05

The result shows that the above chi-square value is fairly high and that there is a significant association between the kinship term and the variable class. Hence the hypothesis that the term 'Fa yon Si' is independent of the variable class may be rejected with 95 percent confidence.

**Hypothesis 1.18** The kinship term 'Pat Ant Hu' is independent of the variable class.

**Result**

a. The chi-square value between the kinship term 'Pat Ant Hu' and the variable class = 21.1345

b. Its level of significance for 6 d.f = 0.01

The evidence shows that the chi-square value obtained above is highly significant. Therefore, the hypothesis that the above kinship term is independent of the variable class may be rejected with 99 percent confidence.

**Hypothesis 1.19** The kinship term 'Fa eld Br Wi' is independent of the the variable class.

**Result**

a. The chi-square value between the term 'Fa eld Br Wi' and the variable class = 2.5318

b. Its level of significance for 3 d.f is very low.

The chi-square value obtained above is small and therefore not significant. Hence the hypothesis that the above kinship term is independent of the variable class is retained.
Hypothesis 1.20  The kinship term 'Fa yon Br Wi' is independent of the variable class.

Result  a. The chi-square value between the term 'Fa yon Br Wi' and the variable class = 46.8018
b. It's level of significance for 9 d.f = 0.01

The result shows that the obtained chi-square value between the term 'Fa yon Br Wi' and the variable class is highly significant. Therefore, the above hypothesis may be rejected with 99 percent confidence.

Hypothesis 1.21  The kinship term 'Wi' is independent of the variable class.

Result  a. The chi-square value between the kinship term 'Wi' and the variable class = 89.5635
b. It's level of significance for 12 d.f = 0.01

The result shows that there is a highly significant association between the kinship term 'Wi' and the variable class. Hence the above hypothesis may be rejected with 99 percent confidence.

Hypothesis 1.22  The kinship term 'Hu' is independent of the variable class.

Result  a. The chi-square value between the kinship term 'Hu' and the variable class = 140.0963
b. It's level of significance for 12 d.f = 0.01

The above chi-square value between the kinship term 'Hu' and the variable class is highly significant. Therefore, the hypothesis that the above kinship term is independent of the variable class may be rejected with 99 percent confidence.
The kinship term 'Wi eld Br' is independent of the variable class.

Result a. The chi-square value between the kinship term 'Wi eld Br' and the variable class = 22.2573

b. It's level of significance for 12 d.f = 0.05

The result shows that the chi-square value between the above kinship term and the variable class is highly significant. Hence the hypothesis that the term 'Wi eld Br' is independent of the variable class may be rejected with 95 percent confidence.

Hypothesis 1.24 The kinship term 'Wi yon Br' is independent of the variable class.

Result a. The chi-square value between the term 'Wi yon Br' and the variable class = 4.2541

b. It's level of significance for 3 d.f is very small.

The chi-square value between the above kinship term and the variable class is not significant. Hence the above hypothesis may be retained.

Hypothesis 1.25 The kinship term 'Wi eld Si' is independent of the variable class.

Result a. The chi-square value between the kinship term 'Wi eld Si' and the variable class = 22.6302

b. It's level of significance for 12 d.f = 0.05

The result shows that the chi-square value between the above kinship term and the variable class is very significant. Therefore, the hypothesis that the term 'Wi eld Si' is independent of the variable class may be rejected with 95 percent confidence.

Hypothesis 1.26 The kinship term 'Wi yon Si' is independent
of the variable class.

Result a. The chi-square value between the term 'Wi yon Si' and the variable class = 1.9179

b. It's level of significance for 3 d.f is small.

The chi-square value obtained above is very small and therefore not significant. Hence, the hypothesis that the kinship term 'Wi yon Si' is independent of the variable class is retained.

Hypothesis 1.27 The kinship term 'Wi Fa' is independent of the variable class.

Result a. The chi-square value between the term 'Wi Fa' and the variable class = 39.4523

b. It's level of significance for 9 d.f = 0.01

The result shows that the chi-square value between the above kinship term and the variable class is highly significant. Therefore the above hypothesis may be rejected with 99 percent confidence.

Hypothesis 1.28 The kinship term 'Wi Mo' is independent of the variable class.

Result a. The chi-square value between the kinship term 'Wi Mo' and the variable class = 50.4044

b. It's level of significance for 15 d.f = 0.01

The result shows that the chi-square value between the above kinship term and the variable class is highly significant. Hence the hypothesis that the term 'Wi Mo' is independent of the variable class may be rejected with 99 percent confidence.

Hypothesis 1.29 The kinship term 'Hu eld Br' is independent
of the variable class.

Result  a. The chi-square value between the term 'Hu eld Br' and the variable class = 60.5489

Result  b. It's level of significance for 9 d.f = 0.01

The evidence proves that there is a highly significant association between the term 'Hu eld Br' and the variable class. Therefore, the above hypothesis may be rejected with 99 percent confidence.

Hypothesis 1.30 The kinship term 'Hu yon Br' is independent of the variable class.

Result  a. The chi-square value between the kinship term 'Hu yon Br' and the variable class = 47.1850

b. It's level of significance for 12 d.f = 0.01

The chi-square value between the above kinship term and the variable class is highly significant. Therefore, the above hypothesis that the kinship term 'Hu yon Br' is independent of the variable class, may be rejected with 99 percent confidence.

Hypothesis 1.31 The kinship term 'Hu eld Si' is independent of the variable class.

Result  a. The chi-square value between the term 'Hu eld Si' and the variable class = 100.7076

b. It's level of significance for 12 d.f = 0.01

The result shows that the chi-square value between the kinship term 'Hu eld Si' and the variable class is highly significant. Therefore, the above hypothesis may be rejected with 99 percent confidence.

Hypothesis 1.32 The kinship term 'Hu yon Si' is independent of the variable class.
Result a. The chi-square value between the term 'Hu yon Si' and the variable class = 31.1387
b. It's level of significance for 12 d.f = 0.01

The evidence proves that there is a highly significant association between the above kinship term and the variable class. Therefore, the hypothesis that the term 'Hu yon Si' is independent of the variable class may be rejected with 99 percent confidence.

Hypothesis 1.33 The kinship term 'Hu Mo' is independent of the variable class.

Result a. The chi-square value between the term 'Hu Mo' and the variable class = 45.1447
b. It's level of significance for 12 d.f = 0.01

The result shows that the chi-square value between the kinship term 'Hu Mo' and the variable class is highly significant. Hence, the above hypothesis may be rejected with 99 percent confidence.

Hypothesis 1.34 The kinship term 'Hu Fa' is independent of the variable class.

Result a. The chi-square value between the term 'Hu Fa' and the variable class = 31.8987
b. It's level of significance for 12 d.f = 0.01

The result shows that there is a highly significant association between the above kinship term and the variable class. Therefore, the hypothesis that the kinship term 'Hu Fa' is independent of the variable class may be rejected with 99 percent confidence.
Hypothesis 1.35 The kinship term 'Si-in-law' is independent of the variable class.

Result  

a. The chi-square value between the term 'Si-in-law' and the variable class = 9.1861

b. Its level of significance for 3 d.f = 0.05

The result shows that the chi-square value between the kinship term 'Si-in-law' and the variable class is very significant. Therefore, the above hypothesis may be rejected with 95 percent confidence.

Hypothesis 1.36 The kinship term 'Br-in-law' is independent of the variable class.

Result  

a. The chi-square value between the term 'Br-in-law' and the variable class = 4.9439

b. Its level of significance for 3 d.f is very small.

The result shows that the chi-square value obtained above is small and insignificant. Hence the above hypothesis that the term 'Br-in-law' is independent of the variable class, is retained.

Hypothesis 1.37 The kinship term 'Mat Unc So' is independent of the variable class.

Result  

a. The chi-square value between the term 'Mat Unc So' and the variable class = 9.8181

b. Its level of significance for 6 d.f is very small.

The evidence proves that the chi-square value obtained above is not significant. Hence, the hypothesis that the kinship term 'Mat Unc So' is independent of the variable class may be retained.

Hypothesis 1.38 The kinship term 'Pat Ant So' is independent of the variable class.
Result  a. The chi-square value between the term 'Pat Ant Sa' and the variable class = 10.9493.
b. Its level of significance for 6 d.f is very small.

The chi-square value between the kinship term 'Pat Ant Sa' and the variable class is not significant. Therefore, the above hypothesis is retained.

**Hypothesis 1.39**  The kinship term 'Mat Unc Da' is independent of the variable class.

Result  a. The chi-square value between the term 'Mat Unc Da' and the variable class = 11.2345
b. Its level of significance for 6 d.f is very small.

The chi-square value between the kinship term 'Mat Unc Da' and the variable class is not significant. Hence the above hypothesis is retained.

**Hypothesis 1.40**  The kinship term 'Pat Ant Da' is independent of the variable class.

Result  a. The chi-square value between the term 'Pat Ant Da' and the variable class = 9.2817
b. Its level of significance for 6 d.f is very small.

The chi-square value between the above kinship term and the variable class is not significant. Hence the hypothesis that the term 'Pat Ant Da' is independent of the variable class is retained.

**Hypothesis 1.41**  The kinship term 'eld Si' is independent of the variable class.

Result  a. The chi-square value between the term 'eld Si' and the variable class = 12.2458
b. It's level of significance for 6 d.f is very small.

The result shows that the chi-square value between the kinship term 'eld Si' and the variable class is not significant. Hence the above hypothesis is retained.

**Hypothesis 1.42** The kinship term 'yon Si' is independent of the variable class.

**Result**

a. The chi-square value between the kinship term 'yon Si' and the variable class = 0.1621.

b. It's level of significance for 3 d.f is very small.

The chi-square value between the kinship term and the variable class is not significant. Hence the hypothesis that the term 'yon Si' is independent of the variable class is retained.

**Hypothesis 1.43** The kinship term 'eld Si Hu' is independent of the variable class.

**Result**

a. The chi-square value between the kinship term 'eld Si Hu' and the variable class = 7.0856.

b. It’s level of significance for 6 d.f is very small.

The result shows that the chi-square value between the kinship term 'eld Si Hu' and the variable class is not significant. Therefore the above hypothesis is retained.

**Hypothesis 1.44** The kinship term 'yon Si Hu' is independent of the variable class.

**Result**

a. The chi-square value between the term 'yon Si Hu' and the variable class = 52.0477

b. It’s level of significance for 15 d.f = 0.01

The evidence shows that the chi-square value between the term 'yon Si Hu' and the variable class is very significant. Hence the above hypothesis may be rejected with 99 percent
confidence.

The frequencies for the terms 'Si So', 'Si Da', 'Br So', 'Br Da' were not put through the chi-square test because these variables showed no variation. In order for the chi-square test to be applied each variable should have more than one sub-category.

**Hypothesis 1.49** The kinship term 'eld Br' is independent of the variable class.

**Result** a. The chi-square value between the term 'eld Br' and the variable class = 20.6052

b. It's level of significance for 6 d.f = 0.01

The result shows that the chi-square value between the kinship term 'eld Br' and the variable class is highly significant. Hence the above hypothesis may be rejected with 99 percent confidence.

There was no variation in the use of the term 'yon Br' and hence the chi-square test could not be applied.

**Hypothesis 1.51** The kinship term 'eld Br Wi' is independent of the variable class.

**Result** a. The chi-square value between the term 'eld Br Wi' and the variable class = 1.5668

b. It's level of significance for 3 d.f is very small.

The chi-square value between the term 'eld Br Wi' and the variable class is not significant. Therefore, the above hypothesis is retained.

**Hypothesis 1.52** The kinship term 'yon Br Wi' is independent of the variable class.
Result a. The chi-square value between the term 'yon Br Wi' and the variable class = 12.9617
b. It's level of significance for 6 d.f = 0.05

The chi-square value obtained above is quite significant. Therefore, the hypothesis that the term 'yon Br Wi' is independent of class, is rejected with 95 percent confidence.

Hypothesis 1.53 The kinship term 'So' is independent of the variable class.

Result a. The chi-square value between the term 'So' and the variable class = 8.8806
b. It's level of significance for 3 d.f = 0.05

The result shows that the chi-square value between the kinship term 'So' and the variable class is very significant. Hence the above hypothesis is rejected with 95 percent confidence.

The frequencies of usage of the term 'Da' were not put through the chi-square test, as there was no variation.

Hypothesis 1.55 The kinship term 'So-in-law' is independent of the variable class.

Result a. The chi-square value between the term 'So-in-law' and the variable class = 43.2818
b. It's level of significance for 12 d.f = 0.01

There is evidence to show that the chi-square value between the above kinship term and the variable class is highly significant. Hence the hypothesis that the term 'So-in-law' is independent of the variable class, is rejected with 99 percent confidence.

Hypothesis 1.56 The kinship term 'Da-in-law' is independent
of the variable class.

Result  a. The chi-square value between the term 'Da-in-law' and the variable class = 5.7664
b. It’s level of significance for 3 d.f is very small.

The result shows that the chi-square value between the term 'Da-in-law' and the variable class is not significant. Therefore the above hypothesis is retained.

Hypothesis 1.57 The kinship term 'Ch Fa-in-law' is independent of the variable class.

Result  a. The chi-square value between the term 'Ch Fa-in-law' and the variable class = 53.8632
b. It’s level of significance for 15 d.f =0.01

There is evidence to show that the chi-square value between the kinship term 'Ch Fa-in-law' and the variable class is highly significant. Hence the above hypothesis is rejected with 99 percent confidence.

Hypothesis 1.58 The kinship term 'Ch Mo-in-law' is independent of the variable class.

Result  a. The chi-square value between the term 'Ch Mo-in-law' and the variable class = 43.3747
b. It’s level of significance for 9 d.f =0.01

The result shows that there is a highly significant association between the term 'Ch Mo-in-law' and the variable class. Therefore, the above hypothesis is rejected with 99 percent confidence.

3.2.2 Testing the relationship between kinship terms and caste

Hypothesis 2.1 The kinship term 'Mo' is independent of the
variable caste.

Result a. The chi-square value between the kinship term 'Mo' and the variable caste = 1.6559

b. It's level of significance for 3 degrees of freedom (d.f) is very low.

Since there is no significant evidence to show that there is an association between the kinship term 'Mo' and the variable caste, the above hypothesis is retained.

Hypothesis 2.2 The kinship term 'Fa' is independent of the variable caste.

Result a. The chi-square value between the kinship Term 'Fa' and the variable caste = 27.3397

b. It's level of significance for 6 d.f = 0.01

Therefore, there is evidence that the chi-square value between the term 'Fa' and the variable caste is highly significant. Hence the hypothesis that the kinship term 'Fa' is independent of the variable caste is rejected with 99 percent confidence.

Hypothesis 2.3 The kinship term 'Mo Mo' is independent of the variable caste.

Result a. The chi-square value between the term 'Mo Mo' and the variable caste = 50.9678

b. It's level of significance for 3 d.f = 0.01

The result shows that the chi-square value between the term 'Mo Mo' and the variable caste is highly significant. Hence the above hypothesis may be rejected with 99 percent confidence.

Hypothesis 2.4 The kinship term 'Mo Fa' is independent of the
variable caste.

**Result**  

a. The chi-square value between the term 'Mo Fa' and the variable caste = 26.2061

b. Its level of significance for 3 d.f = 0.01

There is evidence to show that there is a significant association between the kinship term 'Mo Fa' and the variable caste. Hence the above hypothesis that the term 'Mo Fa' is independent of the variable caste may be rejected with 99 percent confidence.

**Hypothesis 2.5**  
The kinship term 'Mo eld Si' is independent of the variable caste.

**Result**  

a. The chi-square value between the term 'Mo eld Si' and the variable caste = 7.4749

b. Its level of significance for 3 d.f is very low.

The result shows that the chi-square value between the term 'Mo eld Si' and the variable caste is not significant. Hence the above hypothesis may be retained.

**Hypothesis 2.6**  
The kinship term 'Mo eld Si Hu' is independent of the variable caste.

**Result**  

a. The chi-square value between the term 'Mo eld Si Hu' and the variable caste = 22.8922

b. Its level of significance for 3 d.f = 0.01

The obtained chi-square value between the term and the variable caste is highly significant. Hence the above hypothesis that the term 'Mo eld Si Hu' is independent of the variable caste is rejected with 99 percent confidence.

**Hypothesis 2.7**  
The kinship term 'Mo yon Si' is independent of the variable caste.
The chi-square value between the term 'Mo yon Si' and the variable caste = 92.0977

b. It's level of significance for 9 d.f = 0.01

The chi-square value obtained above is highly significant. Hence the hypothesis that the term 'Mo yon Si' is independent of the variable caste is rejected with 99 percent confidence.

Hypothesis 2.8 The kinship term 'Mo yon Si Hu' is independent of the variable caste.

Result a. The chi-square value between the term 'Mo yon Si Hu' and the variable caste = 31.7068

b. It's level of significance for 9 d.f = 0.01

The evidence shows that the chi-square value between the above kinship term and the variable caste is highly significant. Therefore the above hypothesis is rejected with 99 percent confidence.

Hypothesis 2.9 The kinship term 'Mo yon Br' is independent of the variable caste.

Result a. The chi-square value between the term 'Mo yon Br' and the variable caste = 33.7489

b. It's level of significance for 6 d.f = 0.01

The chi-square value obtained above shows that there is a highly significant association between the term 'Mo yon Br' and the variable caste. Therefore the above hypothesis is rejected with 99 percent confidence.

Hypothesis 2.10 The kinship term 'Mo edl Br' is independent of the variable caste.

Result a. The chi-square value between the term 'Mo edl Br' and
the variable caste = 37.8758
b. It's level of significance for 6 d.f = 0.01
The result shows that there is a significant association between the kinship term 'Mo eld Br' and the variable caste. Therefore the hypothesis that the above kinship term is independent of the variable caste is rejected with 99 percent confidence.

Hypothesis 2.11 The kinship term 'Mat Unc Wi' is independent of the variable caste.

Result a. The chi-square value between the term 'Mat Unc Wi' and the variable caste = 52.2727
b. It's level of significance for 9 d.f = 0.01
The obtained chi-square value between the above kinship term and the variable caste is highly significant. Hence the above hypothesis is rejected with 99 percent confidence.

Hypothesis 2.12 The kinship term 'Fa Mo' is independent of the variable caste.

Result a. The chi-square value between the kinship term 'Fa Mo' and the variable caste = 75.2375
b. It's level of significance for 12 d.f = 0.01
The evidence shows that there is a highly significant association between the above kinship term and the variable caste. Therefore, the above hypothesis that the term 'Fa Mo' is independent of the variable caste is rejected with 99 percent confidence.

Hypothesis 2.13 The kinship term 'Fa Fa' is independent of the variable caste.

Result a. The chi-square value between the term 'Fa Fa' and the variable caste = 40.9034
b. It's level of significance for 6 d.f = 0.01

The chi-square value between the above kinship term and the variable caste is highly significant. Hence the above hypothesis that the term 'Fa Fa' is independent of the variable caste, is rejected with 99 percent confidence.

**Hypothesis 2.14** The kinship term 'Fa eld Br' is independent of the variable caste.

**Result** a. The chi-square value between the term 'Fa eld Br' and the variable caste = 29.3812

b. It's level of significance for 3 d.f = 0.01

The evidence shows that there is a highly significant association between the kinship term 'Fa eld Br' and the variable caste. Therefore, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 2.15** The kinship term 'Fa yon Br' is independent of the variable caste.

**Result** a. The chi-square value between the term 'Fa yon Br' and the variable caste = 33.7926

b. It's level of significance for 6 d.f = 0.01

The chi-square value between the above kinship term and the variable caste is highly significant. Hence the hypothesis that the term 'Fa yon Br' is independent of the variable caste is rejected with 99 percent confidence.

**Hypothesis 2.16** The kinship term 'Fa eld Si' is independent of the variable caste.

**Result** a. The chi-square value between the term 'Fa eld Si' and the variable caste = 30.6298
b. It's level of significance for 6 d.f = 0.01

The above result shows that there is a highly significant association between the kinship term 'Fa eld Si' and the variable caste. Therefore the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 2.17** The kinship term 'Fa yon Si' is independent of the variable caste.

**Result** a. The chi-square value between the kinship term 'Fa yon Si' and the variable caste = 30.1953

b. It's level of significance for 6 d.f = 0.01

The obtained chi-square value between the above kinship term and the variable caste is highly significant. Hence the hypothesis that the kinship term 'Fa yon Si' is independent of the variable caste is rejected with 99 percent confidence.

**Hypothesis 2.18** The kinship term 'Pat Ant Hu' is independent of the variable caste.

**Result** a. The chi-square value between the kinship term 'Pat Ant Hu' and the variable caste = 27.8375

b. It's level of significance for 6 d.f = 0.01

The evidence shows that the chi-square value obtained above is highly significant. Therefore, the hypothesis that the above kinship term is independent of the variable caste is rejected with 99 percent confidence.

**Hypothesis 2.19** The kinship term 'Fa eld Br Wi' is independent of the variable caste.

**Result** a. The chi-square value between the term 'Fa eld Br Wi' and the variable caste = 4.5859

b. It's level of significance for 3 d.f is very low.
The chi-square value obtained above is small and therefore not significant. Hence the hypothesis that the above kinship term is independent of the variable caste is retained.

**Hypothesis 2.20** The kinship term 'Fa yon Br Wi' is independent of the variable caste.

**Result**

a. The chi-square value between the term 'Fa yon Br Wi' and the variable caste = 98.9121

b. It's level of significance for 9 d.f = 0.01

The result shows that there is a highly significant association between the kinship term 'Fa yon Br Wi' and the variable caste. Therefore the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 2.21** The kinship term 'Wi' is independent of the variable caste.

**Result**

a. The chi-square value between the term 'Wi' and the variable caste = 73.2902

b. It's level of significance for 12 d.f = 0.01

The result shows that there is a highly significant association between the kinship term 'Wi' and the variable caste. Hence the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 2.22** The kinship term 'Hu' is independent of the variable caste.

**Result**

a. The chi-square value between the term 'Hu' and the variable caste = 130.8827

b. It's level of significance for 12 d.f = 0.01

The obtained chi-square value between the kinship term 'Hu'
and the variable caste is highly significant. Therefore the hypothesis that the above kinship term is independent of the variable caste, is rejected with 99 percent confidence.

**Hypothesis 2.23** The kinship term ‘Wi eld Br’ is independent of the variable caste.

**Result**

a. The chi-square value between the term ‘Wi eld Br’ and the variable caste = 36.7293

b. It’s level of significance for 12 d.f = 0.01

The result shows that there is a highly significant association between the above kinship term and the variable caste. Hence the hypothesis that the term ‘Wi eld Br’ is independent of the variable caste is rejected with 99 percent confidence.

**Hypothesis 2.24** The kinship term ‘Wi yon Br’ is independent of the variable caste.

**Result**

a. The chi-square value between the term ‘Wi yon Br’ and the variable caste = 5.7769

b. It’s level of significance for 3 d.f is very low.

The chi-square value between the above kinship term and the variable caste is not significant. Therefore, the hypothesis that the term ‘Wi yon Br’ is independent of the variable caste is retained.

**Hypothesis 2.25** The kinship term ‘Wi eld Si’ is independent of the variable caste.

**Result**

a. The chi-square value between the term ‘Wi eld Si’ and the variable caste = 12.0834

b. It’s level of significance for 12 d.f is very low.

The chi-square value obtained above is very small and
insignificant. Hence the hypothesis that the above kinship term is independent of the variable caste is retained.

Hypothesis 2.26 The kinship term 'Wi yon Si' is independent of the variable caste.

Result a. The chi-square value between the term 'Wi yon Si' and the variable caste = 5.0224
b. It's level of significance for 3 d.f is very small.

The result shows that there is no significant association between the kinship term 'Wi yon Si' and the variable caste. Therefore, the above hypothesis is retained.

Hypothesis 2.27 The kinship term 'Wi Fa' is independent of the variable caste.

Result a. The chi-square value between the term 'Wi Fa' and the variable caste = 47.5486
b. It's level of significance for 9 d.f = 0.01

The result shows that there is a highly significant association between the term 'Wi Fa' and the variable caste. Hence the above hypothesis is rejected with 99 percent confidence.

Hypothesis 2.28 The kinship term 'Wi Mo' is independent of the variable caste.

Result a. The chi-square value between the term 'Wi Mo' and the variable caste = 65.4340
b. It's level of significance for 15 d.f = 0.01

The chi-square value obtained above is highly significant. Therefore the hypothesis that the term 'Wi Mo' is independent of the variable caste is rejected with 99 percent confidence.
Hypothesis 2.29  The kinship term 'Hu eld Br' is independent of the variable caste.

Result  

a. The chi-square value between the term 'Hu eld Br' and the variable caste = 72.2161

b. It’s level of significance for 9 d.f = 0.01

The result shows that there is a highly significant association between the term 'Hu eld Br' and the variable caste. Hence the above hypothesis is rejected with 99 percent confidence.

Hypothesis 2.30  The kinship term 'Hu yon Br'is independent of the variable caste.

Result  

a. The chi-square value between the term 'Hu yon Br' and the variable caste = 49.2116

b. It’s level of significance for 12 d.f = 0.01

The chi-square value obtained above shows that there is a highly significant association between the kinship term 'Hu yon Br' and the variable caste. Hence the above hypothesis is rejected with 99 percent confidence.

Hypothesis 2.31  The kinship term 'Hu eld Si' is independent of the variable caste.

Result  

a. The chi-square value between the term 'Hu eld Si' and the variable caste = 133.0390

b. It’s level of significance for 12 d.f = 0.01

The result shows that there is a highly significant association between the above kinship term and the variable caste. Therefore, the hypothesis that the term 'Hu eld Si' is independent of the variable caste is rejected with 99 percent confidence.
Hypothesis 2.32 The kinship term 'Hu yon Si' is independent of the variable caste.

Result a. The chi-square value between the term 'Hu yon Si' and the variable caste = 47.6190

b. It's level of significance for 12 d.f = 0.01

There is evidence that there is a highly significant association between the term 'Hu yon Si' and the variable caste. Hence the above hypothesis is rejected with 99 percent confidence.

Hypothesis 2.33 The kinship term 'Hu Mo' is independent of the variable caste.

Result a. The chi-square value between the term 'Hu Mo' and the variable caste = 60.1487

b. It's level of significance for 12 d.f = 0.01

The result shows that the chi-square value obtained above is highly significant. Therefore the hypothesis that the term 'Hu Mo' is independent of the variable caste is rejected with 99 percent confidence.

Hypothesis 2.34 The kinship term 'Hu Fa' is independent of the variable caste.

Result a. The chi-square value between the term 'Hu Fa' and the variable caste = 49.3708

b. It's level of significance for 12 d.f = 0.01

The result shows that there is a highly significant association between the term 'Hu Fa' and the variable caste. Hence the above hypothesis is rejected with 99 percent confidence.
Hypothesis 2.35 The kinship term 'Si-in-law' is independent of the variable caste.

Result a. The chi-square value between the term 'Si-in-law' and the variable caste = 25.2422
b. It's level of significance for 3 d.f = 0.01

The chi-square value obtained above is very significant. Therefore the hypothesis that the term 'Si-in-law' is independent of the variable caste is rejected with 99 percent confidence.

Hypothesis 2.36 The kinship term 'Br-in-law' is independent of the variable caste.

Result a. The chi-square value between the term 'Br-in-law' and the variable caste = 11.4121
b. It's level of significance for 3 d.f = 0.01

The chi-square value obtained above proves that there is a significant association between the kinship term and the variable caste. Therefore the hypothesis that the above kinship term is independent of the variable caste is rejected with 99 percent confidence.

Hypothesis 2.37 The kinship term 'Mat Unc So' is independent of the variable caste.

Result a. The chi-square value between the kinship term 'Mat Unc So' and the variable caste = 22.8025
b. It's level of significance for 6 d.f = 0.01

The result shows that there is a highly significant association between the term 'Mat Unc So' and the variable caste. Hence the above hypothesis is rejected with 99 percent confidence.

Hypothesis 2.38 The kinship term 'Pat Ant So' is
independent of the variable caste.

**Result**

a. The chi-square value between the kinship term 'Pat Ant So' and the variable caste = 22.9391

b. It's level of significance for 6 d.f = 0.01

The chi-square value obtained above is very significant. Therefore, the hypothesis that the term 'Pat Ant So' is independent of the variable caste is rejected with 99 percent confidence.

**Hypothesis 2.39** The kinship term 'Mat Unc Da' is independent of the variable caste.

**Result**

a. The chi-square value between the term 'Mat Unc Da' and the variable caste = 23.6442

b. It's level of significance for 6 d.f = 0.01

There is evidence that there is a highly significant association between the term 'Mat Unc Da' and the variable caste. Hence the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 2.40** The kinship term 'Pat Ant Da' is independent of the variable caste.

**Result**

a. The chi-square value between the term 'Pat Ant Da' and the variable caste = 21.4182

b. It's level of significance for 6 d.f = 0.01

The result shows that there is a highly significant association between the above kinship term and caste. Therefore, the hypothesis that the term 'Pat Ant Da' is independent of the variable caste is rejected with 99 percent confidence.

**Hypothesis 2.41** The kinship term 'eld Si' is independent of
the variable caste.

Result a. The chi-square value between the term ‘eld Si’ and the variable caste = 30.6130
b. Its level of significance for 6 d.f = 0.01

The chi-square value obtained above shows that there is a highly significant association between the kinship term and the variable caste. Therefore, the hypothesis that the term ‘eld Si’ is independent of the variable caste is rejected with 99 percent confidence.

Hypothesis 2.42 The kinship term ‘yon Si’ is independent of the variable caste.

Result a. The chi-square value between the term ‘yon Si’ and the variable caste = 1.0083
b. Its level of significance for 3 d.f is very small.

The chi-square value obtained above is small and insignificant. Hence the hypothesis that the term ‘yon Si’, is independent of the variable caste is retained.

Hypothesis 2.43 The kinship term ‘eld Si Hu’ is independent of the variable caste.

Result a. The chi-square value between the term ‘eld Si Hu’ and the variable caste = 41.0441
b. Its level of significance for 6 d.f = 0.01

The result shows that there is a very significant association between the term ‘eld Si Hu’ and the variable caste. Therefore, the above hypothesis is rejected with 99 percent confidence.

Hypothesis 2.44 The kinship term ‘yon Si Hu’ is independent of the variable caste.
Result a. The chi-square value between the term 'yon Si Hu' and the variable caste = 34.9540
b. It's level of significance for 15 d.f = 0.01

There is evidence that there is a highly significant association between the above kinship term and the variable caste. Hence, the hypothesis that the term 'yon Si Hu' is independent of the variable caste is rejected with 99 percent confidence.

The frequencies of usage of the terms 'Si So', 'Si Da', 'Br So' and 'Br Da' were not put through the chi-square test because these terms showed no variation. In order to apply the chi-square test, there should be more than one category of the variables being tested.

Hypothesis 2.49 The kinship term 'eld Br' is independent of the variable caste.

Result a. The chi-square value between the term 'eld Br' and the variable caste = 33.7290
b. It's level of significance for 6 d.f = 0.01

The result shows that there is a significant association between the above kinship term and the variable caste. Therefore, the hypothesis that the term 'eld Br' is independent of the variable caste is rejected with 99 percent confidence.

There was no variation in the usage of the term 'yon Br' therefore the results were not put through the chi-square test.

Hypothesis 2.51 The kinship term 'eld Br Wi' is independent of the variable caste.

Result a. The chi-square value between the term 'eld Br Wi'
and the variable caste = 1.5302

b. It's level of significance for 3 d.f is very low.

The chi-square value obtained above is not significant. Hence the hypothesis that the term 'eld Br Wi' is independent of the variable caste is retained.

Hypothesis 2.52 The kinship term 'yon Br Wi' is independent of the variable caste.

Result a. The chi-square value between the term 'yon Br Wi' and the variable caste = 4.3404

b. It's level of significance for 6 d.f is very low.

The result shows that there is no significant association between the kinship term 'yon Br Wi' and the variable caste. Therefore, the above hypothesis is retained.

Hypothesis 2.53 The kinship term 'So' is independent of the variable caste.

Result a. The chi-square value between the term 'So' and the variable caste = 11.5062

b. It's level of significance for 3 d.f = 0.01

The chi-square value obtained above shows that there is a significant association between the term 'So' and the variable caste. Hence, the above hypothesis is rejected with 99 percent confidence.

There is no variation in the use of terms for 'Da'. Therefore the results were not put through the chi-square test.

Hypothesis 2.55 The kinship term 'So-in-law' is independent of the variable caste.

Result a. The chi-square value between the term 'So-in-law' and the variable caste = 58.7346
b. It's level of significance for 12 d.f = 0.01

There is evidence to show that there is a highly significant association between the above kinship term and the variable caste. Hence the hypothesis that the term 'So-in-law' is independent of the variable caste is rejected with 99 percent confidence.

Hypothesis 2.56 The kinship term 'Da-in-law' is independent of the variable caste.

Result a. The chi-square value between the term 'Da-in-law' and the variable caste = 1.8241
b. It's level of significance for 3 d.f is very low.

The result shows that there is no significant association between the kinship term 'Da-in-law' and the variable caste. Therefore, the above hypothesis is retained.

Hypothesis 2.57 The kinship term 'Ch Fa-in-law' is independent of the variable caste.

Result a. The chi-square value between the term 'Ch Fa-in-law' and the variable caste = 81.6081
b. It's level of significance for 15 d.f = 0.01

There is evidence to show that there is a highly significant association between the above kinship term and the variable caste. Hence the above hypothesis is rejected with 99 percent confidence.

Hypothesis 2.58 The kinship term 'Ch Mo-in-law' is independent of the variable caste.

Result a. The chi-square value between the term 'Ch Mo-in-law' and the variable caste = 43.5096
b. It's level of significance for 9 d.f = 0.01

The result shows that there is a highly significant association between the above kinship term and the variable caste. Therefore, the hypothesis that the term 'Ch Mo-in-law' is independent of the variable caste, is rejected with 99 percent confidence.

3.2.3 Testing the relationship between kinship terms and education

Hypothesis 3.1 The kinship term 'Mo' is independent of the variable education.

Result a. The chi-square value between the term 'Mo' and the variable education = 1.6288
b. It's level of significance for 2 degrees of freedom (d.f) is very small.

The chi-square value obtained above is small, and therefore there is no significant evidence to show that there is an association between the above kinship term and the variable education. Hence, the hypothesis that the term 'Mo' is independent of the variable education is retained.

Hypothesis 3.2 The kinship term 'Fa' is independent of the variable education.

Result a. The chi-square value between the term 'Fa' and the variable education = 49.7142
b. It's level of significance for 4 d.f = 0.01

The result shows that there is a highly significant association between the term 'Fa' and the variable education. Therefore the above hypothesis is rejected with 99 percent confidence.
Hypothesis 3.3  The kinship term 'Mo Mo' is independent of the variable education.

Result  a. The chi-square value between the term 'Mo Mo' and the variable education = 33.4085
b. It's level of significance for 2 d.f = 0.01

There is evidence to show that there is a significant association between the above kinship term and the variable education. Hence the hypothesis that the term 'Mo Mo' is independent of the variable education is rejected with 99 percent confidence.

Hypothesis 3.4  The kinship term 'Mo Fa' is independent of the variable education.

Result  a. The chi-square value between the term 'Mo Fa' and the variable education = 14.0382
b. It's level of significance for 2 d.f = 0.01

The obtained chi-square value between the above kinship term and the variable education is highly significant. Therefore, the above hypothesis that the term 'Mo Fa' is independent of the variable education is rejected with 99 percent confidence.

Hypothesis 3.5  The kinship term 'Mo eld Si' is independent of the variable education.

Result  a. The chi-square value between the term 'Mo eld Si' and the variable education = 4.3905
b. It's level of significance for 2 d.f is very low.

The chi-square value obtained above is small and therefore insignificant. Hence the hypothesis that the term 'Mo eld Si' is independent of the variable education is retained.
Hypothesis 3.6. The kinship term 'Mo eld Si Hu' is independent of the variable education.

Result a. The chi-square value between the term 'Mo eld Si Hu' and the variable education = 37.9115

b. It's level of significance for 2 d.f = 0.01

The result shows that there is a highly significant association between the term 'Mo eld Si Hu' and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.

Hypothesis 3.7. The kinship term 'Mo yon Si' is independent of the variable education.

Result a. The chi-square value between the term 'Mo yon Si' and the variable education = 45.3784

b. It's level of significance for 6 d.f = 0.01

The chi-square value obtained between the kinship term and the variable education is very high. Hence, the hypothesis that the term 'Mo yon Si' is independent of the variable education is rejected with 99 percent confidence.

Hypothesis 3.8. The kinship term 'Mo yon Si Hu' is independent of the variable education.

Result a. The chi-square value between the term 'Mo yon Si Hu' and the variable education = 40.7993

b. It's level of significance for 6 d.f = 0.01

The result shows that the chi-square value between the above kinship term and the variable education is very significant. Therefore, the hypothesis that the term 'Mo yon Si Hu' is independent of the variable education is rejected with 99 percent confidence.
Hypothesis 3.9  The kinship term 'Mo yon Br' is independent of the variable education.

Result  
a. The chi-square value between the term 'Mo yon Br' and the variable education = 30.0411
b. It's level of significance for 4 d.f = 0.01

The obtained chi-square value between the kinship term 'Mo yon Br' and the variable education is highly significant. Hence the above hypothesis is rejected with 99 percent confidence.

Hypothesis 3.10  The kinship term 'Mo eld Br' is independent of the variable education.

Result  
a. The chi-square value between the term 'Mo eld Br' and the variable education = 30.5125
b. It's level of significance for 4 d.f = 0.01

The result shows that there is a very significant association between the above kinship term and the variable education. Therefore, the hypothesis that the term 'Mo eld Br' is independent of the variable education is rejected with 99 percent confidence.

Hypothesis 3.11  The kinship term 'Mat Unc Wi' is independent of the variable education.

Result  
a. The chi-square value between the term 'Mat Unc Wi' and the variable education = 37.7910
b. It's level of significance for 6 d.f = 0.01

The result shows that there is a highly significant association between the above kinship term and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.
Hypothesis 3.12  The kinship term 'Fa Mo' is independent of the variable education.

Result  a.  The chi-square value between the term 'Fa Mo' and the variable education = 43.6511

b.  It's level of significance for 8 d.f = 0.01

The result shows that there is a very significant association between the above kinship term and the variable education. Therefore, the hypothesis that the term 'Fa Mo' is independent of the variable education is rejected with 99 percent confidence.

Hypothesis 3.13  The kinship term 'Fa Fa' is independent of the variable education.

Result  a.  The chi-square value between the term 'Fa Fa' and the variable education = 26.8726

b.  It's level of significance for 4 d.f = 0.01

The result shows that there is a highly significant association between the term 'Fa Fa' and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.

Hypothesis 3.14  The kinship term 'Fa eld Br' is independent of the variable education.

Result  a.  The chi-square value between the term 'Fa eld Br' and the variable education = 45.8410

b.  It's level of significance for 2 d.f = 0.01

The chi-square value obtained above shows that there is a very significant relationship between the kinship term and the variable education. Hence the hypothesis that the term 'Fa eld Br' is independent of the variable education is rejected with 99
percent confidence.

**Hypothesis 3.15** The kinship term 'Fa yon Br' is independent of the variable education.

**Result** a. The chi-square value between the term 'Fa yon Br' and the variable education = 46.9753

b. It's level of significance for 4 d.f = 0.01

There is evidence that there is a highly significant association between the term 'Fa yon Br' and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.16** The kinship term 'Fa eld Si' is independent of the variable education.

**Result** a. The chi-square value between the term 'Fa eld Si' and the variable education = 16.3708

b. It's level of significance for 4 d.f = 0.01

The obtained chi-square value between the term 'Fa eld Si' and the variable education is very significant. Hence the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.17** The kinship term 'Fa yon Si' is independent of the variable education.

**Result** a. The chi-square value between the term 'Fa yon Si' and the variable education = 16.3959

b. It's level of significance for 4 d.f = 0.01

The result shows that there is a highly significant relationship between the kinship term 'Fa yon Si' and the variable education. Hence, the above hypothesis is rejected with 99 percent confidence.
**Hypothesis 3.18**  The kinship term 'Pat Ant Hu' is independent of the variable education.

**Result**

a. The chi-square value between the kinship term 'Pat Ant Hu' and the variable education = 11.1291

b. It's level of significance for 4 d.f = 0.05

The obtained chi-square value between the above kinship term and education is quite significant. Hence the hypothesis that the term 'Pat Ant Hu' is independent of the variable education is rejected with 95 percent confidence.

**Hypothesis 3.19**  The kinship term 'Fa eld Br Wi' is independent of the variable education.

**Result**

a. The chi-square value between the term 'Fa eld Br Wi' and the variable education = 1.8596

b. It's level of significance for 2 d.f is very low.

The chi-square value obtained above is small and therefore not significant. Hence the hypothesis that the term 'Fa eld Br Wi' is independent of the variable education is retained.

**Hypothesis 3.20**  The kinship term 'Fa yon Br Wi' is independent of the variable education.

**Result**

a. The chi-square value between the term 'Fa yon Br Wi' and the variable education = 68.0539

b. It's level of significance for 6 d.f = 0.01

The result shows that there is a very significant relationship between the term 'Fa yon Br Wi' and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.21**  The kinship term 'Wi' is independent of the variable education.
Result a. The chi-square value between the term 'Wi' and the variable education = 72.5881
b. Its level of significance for 8 d.f = 0.01

There is evidence that there is a highly significant relationship between the above kinship term and the variable education. Hence the hypothesis that the term 'Wi' is independent of the variable education, is rejected with 99 percent confidence.

Hypothesis 3.22 The kinship term 'Hu' is independent of the variable education.

Result a. The chi-square value between term 'Hu' and the variable education = 136.0693
b. Its level of significance for 8 d.f = 0.01

The result shows that there is a highly significant association between the kinship term 'Hu' and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.

Hypothesis 3.23 The kinship term 'Wi eld Br' is independent of the variable education.

Result a. The chi-square value between the term 'Wi eld Br' and the variable education = 21.2498
b. Its level of significance for 8 d.f = 0.01

The chi-square value obtained above is highly significant. Hence the hypothesis that the term 'Wi eld Br' is independent of the variable education, is rejected with 99 percent confidence.

Hypothesis 3.24 The kinship term 'Wi yon Br' is independent of the variable education.
Result  a.  The chi-square value between the term 'Wi yon Br' and the variable education = 1.0752
b.  It's level of significance for 2 d.f is very small.

The result shows that there is no significant association between the term 'Wi yon Br' and the variable education. Therefore, the above hypothesis is retained.

Hypothesis 3.25  The kinship term 'Wi eld Si' is independent of the variable education.

Result  a.  The chi-square value between the term 'Wi eld Si' and the variable education = 7.8702
b.  It's level of significance for 8 d.f is low.

The obtained chi-square value between the kinship term 'Wi eld Si' and the variable education, is small, and hence not significant. Therefore, the above hypothesis is retained.

Hypothesis 3.26  The kinship term 'Wi yon Si' is independent of the variable education.

Result  a.  The chi-square value between the term 'Wi yon Si' and the variable education = 0.3294
b.  It's level of significance for 2 d.f is very small.

The result shows that the chi-square value obtained above, is small and therefore not significant. Hence the hypothesis that the term 'Wi yon Si' is independent of the variable education, is retained.

Hypothesis 3.27  The kinship term 'Wi Fa' is independent of the variable education.

Result  a.  The chi-square value between the term 'Wi Fa' and the variable education = 30.2402
b.  It's level of significance for 6 d.f = 0.01
There is evidence that there is a highly significant relationship between the term 'Wi Fa' and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.28** The kinship term 'Wi Mo' is independent of the variable education.

**Result**
- a. The chi-square value between the term 'Wi Mo' and the variable education = 39.9230
- b. It's level of significance for 10 d.f = 0.01

The result shows that there is a very significant association between the term 'Wi Mo' and the variable education. Hence the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.29** The kinship term 'Hu eld Br' is independent of the variable education.

**Result**
- a. The chi-square value between the term 'Hu eld Br' and the variable education = 33.6121
- b. It's level of significance for 6 d.f = 0.01

There is evidence that there is a very significant relationship between the term 'Hu eld Br' and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.30** The kinship term 'Hu yon Br' is independent of the variable education.

**Result**
- a. The chi-square value between the term 'Hu yon Br' and the variable education = 54.3326
- b. It's level of significance for 8 d.f = 0.01

The chi-square value obtained above is highly significant.
Therefore, the hypothesis that the term 'Hu yon Br' is independent of the variable education, is rejected with 99 percent confidence.

**Hypothesis 3.31** The kinship term 'Hu eld Si' is independent of the variable education.

**Result**
- a. The chi-square value between the term 'Hu eld Si' and the variable education = 98.1064
- b. It's level of significance for 8 d.f = 0.01

The result shows that there is a very significant association between the kinship term 'Hu eld Si' and the variable education. Hence the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.32** The kinship term 'Hu yon Si' is independent of the variable education.

**Result**
- a. The chi-square value between the term 'Hu yon Si' and the variable education = 53.7689
- b. It's level of significance for 8 d.f = 0.01

There is evidence that there is a very significant relationship between the term 'Hu yon Si' and the variable education. Therefore the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.33** The kinship term 'Hu Mo' is independent of the variable education.

**Result**
- a. The chi-square value between the term 'Hu Mo' and the variable education = 31.1868
- b. It's level of significance for 8 d.f = 0.01

The chi-square value obtained above, shows that there is a highly significant association between the term 'Hu Mo' and the
variable education. Hence, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.34** The kinship term 'Hu Fa' is independent of the variable education.

**Result**  
a. The chi-square value between the term 'Hu Fa' and the variable education = 30.5609  
b. It's level of significance for 8 d.f = 0.01  
The result shows that there is a highly significant relationship between the above kinship term and the variable education. Therefore, the hypothesis that the term 'Hu Fa' is independent of the variable education is rejected with 99 percent confidence.

**Hypothesis 3.35** The kinship term 'Si-in-law' is independent of the variable education.

**Result**  
a. The chi-square value between the term 'Si-in-law' and the variable education = 4.6577  
b. It's level of significance for 2 d.f is very small.  
The chi-square value obtained above is small and insignificant. Therefore the hypothesis that the term 'Si-in-law' is independent of the variable education, is retained.

**Hypothesis 3.36** The kinship term 'Br-in-law' is independent of the variable education.

**Result**  
a. The chi-square value between the term 'Br-in-law' and the variable education = 1.7913  
b. It's level of significance for 2 d.f is low.  
The result shows that there is no significant relationship between the term 'Br-in-law' and the variable education. Hence,
the above hypothesis is retained.

**Hypothesis 3.37** The kinship term 'Mat Unc So' is independent of the variable education.

**Result**  
a. The chi-square value between the term 'Mat Unc So' and the variable education = 23.9508  
b. Its level of significance for 4 d.f = 0.01

The result shows that there is a very significant association between the term 'Mat Unc So' and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.38** The kinship term 'Pat Ant So' is independent of the variable education.

**Result**  
a. The chi-square value between the term 'Pat Ant So' and the variable education = 21.7457  
b. Its level of significance for 4 d.f = 0.01

The obtained chi-square value between the term 'Pat Ant So' and the variable education is highly significant. Hence the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 3.39** The kinship term 'Mat Unc Da' is independent of the variable education.

**Result**  
a. The chi-square value between the term 'Mat Unc Da' and the variable education = 11.1939  
b. Its level of significance for 4 d.f = 0.05

The result shows that there is a very significant association between the above kinship term and the variable education. Therefore, the hypothesis that the term 'Mat Unc Da' is independent of the variable education is rejected with 95 percent confidence.
Hypothesis 3.40  The kinship term 'Pat Ant Da' is independent of the variable education.

Result  a. The chi-square value between the term 'Pat Ant Da' and the variable education = 9.5409
b. It's level of significance for 4 d.f = 0.05

The chi-square value obtained above, shows that there is quite a significant relationship between the term 'Pat Ant Da' and the variable education. Hence the above hypothesis is rejected with 95 percent confidence.

Hypothesis 3.41  The kinship term 'eld Si' is independent of the variable education.

Result  a. The chi-square value between the term 'eld Si' and the variable education = 10.1725
b. It's level of significance for 4 d.f = 0.05

There is evidence that there is quite a significant association between the term 'eld Si' and the variable education. Therefore, the above hypothesis is rejected with 95 percent confidence.

Hypothesis 3.42  The kinship term 'yon Si' is independent of the variable education.

Result  a. The chi-square value between the term 'yon Si' and the variable education = 1.4404
b. It's level of significance for 2 d.f is very small.

The chi-square value obtained above is very small. Therefore there is no significant relationship between the term 'yon Si' and the variable education. Hence the above hypothesis is retained.
Hypothesis 3.43  The kinship term ‘eld Si Hu’ is independent of the variable education.

Result  a. The chi-square value between the term ‘eld Si Hu’ and the variable education = 19.8877
b. It’s level of significance for 4 d.f = 0.01

The result shows that there is a very significant association between the above kinship term and education. Therefore, the hypothesis that the term ‘eld Si Hu’ is independent of the variable education is rejected with 99 percent confidence.

Hypothesis 3.44  The kinship term ‘yon Si Hu’ is independent of the variable education.

Result  a. The chi-square value between the term ‘yon Si Hu’ and the variable education = 56.8836
b. It’s level of significance for 10 d.f = 0.01

There is evidence that there is a very significant relationship between the term ‘yon Si Hu’ and the variable education. Hence, the above hypothesis is rejected with 99 percent confidence.

The frequencies for the terms ‘Si So’, ‘Si Da’, ‘Br So’ and ‘Br Da’ were not put through the chi-square test, because these terms showed no variation. It has already been explained that the chi-square test can be applied only when there is more than one category for each variable under consideration.

Hypothesis 3.49  The kinship term ‘eld Br’ is independent of the variable education.

Result  a. The chi-square value between the term ‘eld Br’ and the variable education = 19.0633
b. It’s level of significance for 4 d.f = 0.01

The chi-square value between the term ‘eld Br’ and the variable education is highly significant. Therefore, the above hypothesis is rejected with 99 percent confidence.

There was no variation in the use of terms for ‘yon Br.’ Therefore, the results were not put through the chi-square test.

Hypothesis 3.51 The kinship term ‘eld Br Wi’ is independent of the variable education.

Result a. The chi-square value between the term ‘eld Br Wi’ and the variable education = 0.5286

b. It’s level of significance for 2 d.f is very small.

The result shows that the chi-square value between the term ‘eld Br Wi’ and the variable education is very small, and therefore not significant. Hence, the above hypothesis is retained.

Hypothesis 3.52 The kinship term ‘yon Br Wi’ is independent of the variable education.

Result a. The chi-square value between the term ‘yon Br Wi’ and the variable education = 2.7320

b. It’s level of significance for 4 d.f is very low.

The chi-square value obtained above is small and insignificant. Therefore, the hypothesis that the term ‘yon Br Wi’ is independent of the variable education, is retained.

Hypothesis 3.53 The kinship term ‘So’ is independent of the variable education.

Result a. The chi-square value between the term ‘So’ and the variable education = 6.7639
b. It’s level of significance for 2 d.f = 0.05

The result shows that there is quite a significant relationship between the kinship term ‘So’ and the variable education. Hence, the above hypothesis is rejected with 95 percent confidence.

There was no variation in the use of terms for the relation ‘Da’. Therefore, the chi-square test was not applied to the results.

Hypothesis 3.55. The kinship term ‘So-in-law’ is independent of the variable education.

Result a. The chi-square value between the term ‘So-in-law’ and the variable education = 42.1503

b. It’s level of significance for 8 d.f = 0.01

There is evidence that there is a highly significant association between the term ‘So-in-law’ and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.

Hypothesis 3.56 The kinship term ‘Da-in-law’ is independent of the variable education.

Result a. The chi-square value between the term ‘Da-in-law’ and the variable education = 0.1953

b. It’s level of significance for 2 d.f is very small.

The result shows that there is no significant relationship between the term ‘Da-in-law’ and the variable education. Hence the above hypothesis is retained.

Hypothesis 3.57 The kinship term ‘Ch Fa-in-law’ is independent of the variable education.

Result a. The chi-square value between the term ‘Ch Fa-in-
law' and the variable education = 47.7223
b. It's level of significance for 10 d.f = 0.01

The obtained chi-square value between the term 'Ch Fa-in-law' and the variable education is highly significant. Therefore, the above hypothesis is rejected with 99 percent confidence.

Hypothesis 3.50 The kinship term 'Ch-Mo-in-law' is independent of the variable education.

Result  a. The chi-square value between the term 'Ch Mo-in-law' and the variable education = 23.2659
b. It's level of significance for 6 d.f = 0.01

There is evidence that there is a highly significant association between the term 'Ch Mo-in-law' and the variable education. Therefore, the above hypothesis is rejected with 99 percent confidence.

3.2.4- Testing the relationship between kinship terms and age

Hypothesis 4.1 The kinship term 'Mo' is independent of the variable age.

Result  a. The chi-square value between the term 'Mo' and the variable age = 5.9692
b. It's level of significance for 2 degrees of freedom (d.f) is very small.

The chi-square value obtained above shows that there is no significant association between the term 'Mo' and the variable age. Hence the hypothesis that the term 'Mo' is independent of the variable age, is retained.

Hypothesis 4.2 The kinship term 'Fa' is independent of
the variable age.

**Result** a. The chi-square value between the term 'Fa' and the variable age = 17.9316

b. It's level of significance for 4 d.f = 0.01

The result shows that there is a highly significant relationship between the term 'Fa' and the variable age. Therefore, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 4.3** The kinship term 'Mo Mo' is independent of the variable age.

**Result** a. The chi-square value between the term 'Mo Mo' and the variable age = 6.8051

b. It's level of significance for 2 d.f = 0.05

There is significant evidence to show that there is an association between the term 'Mo Mo' and the variable age. Hence the above hypothesis is rejected with 95 percent confidence.

**Hypothesis 4.4** The kinship term 'Mo Fa' is independent of the variable age.

**Result** a. The chi-square value between the term 'Mo Fa' and the variable age = 0.7810

b. It's level of significance for 2 d.f is very small.

The result shows that there is no significant association between the above kinship term and the variable age. Therefore, the hypothesis that the term 'Mo Fa' is independent of the variable age is retained.

**Hypothesis 4.5** The kinship term 'Mo eld Si' is independent of the variable age.

**Result** a. The chi-square value between the term 'Mo eld Si'
and the variable age = 5.8532
b. It's level of significance for 2 d.f is small.

The chi-square value between the term 'Mo eld Si' and the variable age is small and therefore not significant. Hence, the above hypothesis is retained.

**Hypothesis 4.6**
The kinship term 'Mo eld Si Hu' is independent of the variable age.

**Result**
a. The chi-square value between the term 'Mo eld Si Hu' and the variable age = 23.3461
b. It's level of significance for 2 d.f = 0.01

The result shows that there is a highly significant association between the term 'Mo eld Si Hu' and the variable age. Therefore, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 4.7**
The kinship term 'Mo yon Si' is independent of the variable age.

**Result**
a. The chi-square value between the term 'Mo yon Si' and the variable age = 14.1961
b. It's level of significance for 6 d.f = 0.05

The chi-square value obtained above shows that there is a significant relationship between the kinship term 'Mo yon Si' and the variable age. Therefore, the above hypothesis is rejected with 95 percent confidence.

**Hypothesis 4.8**
The kinship term 'Mo yon Si Hu' is independent of the variable age.

**Result**
a. The chi-square value between the term 'Mo yon Si Hu' and the variable age = 28.7186
b. It's level of significance for 6 d.f = 0.01

The result shows that the chi-square value between the above term and the variable age is very significant. Hence, the hypothesis that the term 'Mo yon Si Hu' is independent of the variable age, is rejected with 99 percent confidence.

**Hypothesis 4.7**  The kinship term 'Mo yon Br' is independent of the variable age.

**Result**  
a. The chi-square value between the term 'Mo yon Br' and the variable age = 12.2089

b. It's level of significance for 4 d.f = 0.05

The obtained chi-square value between the term 'Mo yon Br' and the variable age, is very significant. Hence, the above hypothesis is rejected with 95 percent confidence.

**Hypothesis 4.10**  The kinship term 'Mo eld Br' is independent of the variable age.

**Result**  
a. The chi-square value between the term 'Mo eld Br' and the variable age = 11.9426

b. It's level of significance for 4 d.f = 0.05

The result shows that there is a very significant association between the above kinship term and the variable age. Therefore, the hypothesis that the term 'Mo eld Br' is independent of the variable age, is rejected with 95 percent confidence.

**Hypothesis 4.11**  The kinship term 'Mat Unc Wi' is independent of the variable age.

**Result**  
a. The chi-square value between the term 'Mat Unc Wi' and the variable age = 12.2035

b. It's level of significance for 6 d.f is small.
The obtained chi-square value between the kinship term 'Mat Unc Wi' and the variable age is not significant. Hence the above hypothesis is retained.

Hypothesis 4.12 The kinship term 'Fa Mo' is independent of the variable age.

Result a. The chi-square value between the term 'Fa Mo' and the variable age = 23.5215
b. It's level of significance for 8 d.f = 0.01

There is evidence that there is a very significant relationship between the above kinship term and the variable age. Therefore, the hypothesis that the term 'Fa Mo' is independent of the variable age, is rejected with 99 percent confidence.

Hypothesis 4.13 The kinship term 'Fa Fa' is independent of the variable age.

Result a. The chi-square value between the term 'Fa Fa' and the variable age = 7.5744
b. It's level of significance for 4 d.f is very small.

The result shows that there is no significant association between the above kinship term and the variable age. Therefore, the hypothesis that the term 'Fa Fa' is independent of the variable age, is retained.

Hypothesis 4.14 The kinship term 'Fa eld Br' is independent of the variable age.

Result a. The chi-square value between the term 'Fa eld Br' and the variable age = 19.8034
b. It's level of significance for 2 d.f = 0.01

The chi-square value obtained above shows that there is a
very significant relationship between the term 'Fa eld Br' and the variable age. Hence, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 4.15** The kinship term 'Fa yon Br' is independent of the variable age.

**Result**

a. The chi-square value between the term 'Fa yon Br' and the variable age = 34.1636

b. It's level of significance for 4 d.f = 0.01

There is evidence that there is a highly significant association between the above kinship term and the variable age. Therefore, the hypothesis that the term 'Fa yon Br' is independent of the variable age, is rejected with 99 percent confidence.

**Hypothesis 4.16** The kinship term 'Fa eld Si' is independent of the variable age.

**Result**

a. The chi-square value between the term 'Fa eld Si' and the variable age = 2.6354

b. It's level of significance for 4 d.f is very low.

The obtained chi-square value between the above kinship term and age is very small and therefore not significant. Hence the hypothesis that the term 'Fa eld Si' is independent of the variable age, is retained.

**Hypothesis 4.17** The kinship term 'Fa yon Si' is independent of the variable age.

**Result**

a. The chi-square value between the term 'Fa yon Si' and the variable age = 2.6354

b. It's level of significance for 4 d.f is very low.

The result shows that there is no significant relationship
between the term 'Fa yon Si' and the variable age. Hence the above hypothesis is retained.

Hypothesis 4.18 The kinship term 'Pat Ant Hu' is independent of the variable age.

Result a. The chi-square value between the term 'Pat Ant Hu' and the variable age = 5.5205
b. It's level of significance for 4 d.f is very low.

The chi-square value obtained above is small and hence not significant. Therefore, the hypothesis that the term 'Pat Ant Hu' is independent of the variable age, is retained.

Hypothesis 4.19 The kinship term 'Fa eld Br Wi' is independent of the variable age.

Result a. The chi-square value between the term 'Fa eld Br Wi' and the variable age = 1.7423
b. It's level of significance for 2 d.f is small.

The chi-square value obtained above is small and insignificant. Hence the hypothesis that the term 'Fa eld Br Wi' is independent of the variable age, is retained.

Hypothesis 4.20 The kinship term 'Fa yon Br Wi' is independent of the variable age.

Result a. The chi-square value between the term 'Fa yon Br Wi' and the variable age = 16.6433
b. It's level of significance for 6 d.f = 0.05

The result shows that there is a very significant association between the term 'Fa yon Br Wi' and the variable age. Therefore, the above hypothesis is rejected with 95 percent confidence.
Hypothesis 4.21 The kinship term 'Wi' is independent of the variable age.

Result a. The chi-square value between the term 'Wi' and the variable age = 34.0838

b. It's level of significance for 8 d.f = 0.01

There is evidence that there is a very significant relationship between the above kinship term and the variable age. Hence, the hypothesis that the term 'Wi' is independent of the variable age, is rejected with 99 percent confidence.

Hypothesis 4.22 The kinship term 'Hu' is independent of the variable age.

Result a. The chi-square value between the term 'Hu' and the variable age = 43.1148

b. It's level of significance for 8 d.f = 0.01

The result shows that there is a highly significant association between the kinship term 'Hu' and the variable age. Therefore, the above hypothesis is rejected with 99 percent confidence.

Hypothesis 4.23 The kinship term 'Wi eld Br' is independent of the variable age.

Result a. The chi-square value between the term 'Wi eld Br' and the variable age = 10.5082

b. It's level of significance for 8 d.f is very low.

The chi-square value obtained above is not significant. Hence, the hypothesis that the term 'Wi eld Br' is independent of the variable age, is retained.

Hypothesis 4.24 The kinship term 'Wi yon Br' is independent of the variable age.
Result  a. The chi-square value between the term 'Wi yon Br' and the variable age = 3.8806
b. It's level of significance for 2 d.f is small.

The result shows that there is no significant association between the above kinship term and the variable age. Therefore, the hypothesis that the term 'Wi yon Br' is independent of the variable age is retained.

Hypothesis 4.25  The kinship term 'Wi eld Si' is independent of the variable age.

Result  a. The chi-square value between the term 'Wi eld Si' and the variable age = 9.9865
b. It's level of significance for 8 d.f is very low.

The obtained chi-square value between the term 'Wi eld Si' and the variable age is very small, and hence not significant. Therefore, the above hypothesis is retained.

Hypothesis 4.26  The kinship term 'Wi yon Si' is independent of the variable age.

Result  a. The chi-square value between the term 'Wi yon Si' and the variable age = 2.2014
b. It's level of significance for 2 d.f is very low.

The result shows that there is no significant association between the above kinship term and the variable age. Hence, the hypothesis that the term 'Wi yon Si' is independent of the variable age, is retained.

Hypothesis 4.27  The kinship term 'Wi Fa' is independent of the variable age.

Result  a. The chi-square value between the term 'Wi Fa' and
the variable age = 35.2441

b. It's level of significance for 6 d.f = 0.01

There is evidence that there is a highly significant relationship between the term 'Wi Fa' and the variable age. Therefore the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 4.28** The kinship term 'Wi Mo' is independent of the variable age.

**Result**

a. The chi-square value between the term 'Wi Mo' and the variable age = 31.9824

b. It's level of significance for 10 d.f = 0.01

The result shows that there is a very significant association between the above kinship term and the variable age. Hence, the hypothesis that the term 'Wi Mo' is independent of the variable age, is rejected with 99 percent confidence.

**Hypothesis 4.29** The kinship term 'Hu eld Br' is independent of the variable age.

**Result**

a. The chi-square value between the term 'Hu eld Br' and the variable age = 15.3400

b. It's level of significance for 6 d.f = 0.05

There is evidence that there is quite a significant relationship between the term 'Hu eld Br' and the variable age. Therefore, the above hypothesis is rejected with 95 percent confidence.

**Hypothesis 4.30** The kinship term 'Hu yon Br' is independent of the variable age.

**Result**

a. The chi-square value between the term 'Hu yon Br' and the variable age = 18.1206
b. It’s level of significance for 8 d.f = 0.05

The chi-square value obtained above shows that there is a significant association between above kinship term and the variable age. Hence, the hypothesis that the term ‘Hu yon Br’ is independent of the variable age, is rejected with 95 percent confidence.

**Hypothesis 4.31** The kinship term ‘Hu eld Si’ is independent of the variable age.

**Result**

a. The chi-square value between the term ‘Hu eld Si’ and the variable age = 12.4226

b. It’s level of significance for 8 d.f is very low.

The result shows that there is no significant relationship between the above kinship term and the variable age. Therefore, the hypothesis that the term ‘Hu eld Si’ is independent of the variable age, is retained.

**Hypothesis 4.32** The kinship term ‘Hu yon Si’ is independent of the variable age.

**Result**

a. The chi-square value between the term ‘Hu yon Si’ and the variable age = 7.1667

b. It’s level of significance for 8 d.f is very small.

There is no significant evidence to show that there is an association between the above kinship term and the variable age. Hence, the hypothesis that the term ‘Hu yon Si’ is independent of the variable age, is retained.

**Hypothesis 4.33** The kinship term ‘Hu Mo’ is independent of the variable age.

**Result**

a. The chi-square value between the term ‘Hu Mo’ and
the variable age = 18.3328

b. It's level of significance for 8 d.f = 0.05

The chi-square value obtained above is very significant. Therefore, the hypothesis that the term 'Hu Mo' is independent of the variable age, is rejected with 95 percent confidence.

Hypothesis 4.34 The kinship term 'Hu Fa' is independent of the variable age.

Result  a. The chi-square value between the term 'Hu Fa' and the variable age = 10.0526

b. It's level of significance for 8 d.f is small.

The result shows that there is no significant relationship between the kinship term 'Hu Fa' and the variable age. Therefore, the above hypothesis is retained.

Hypothesis 4.35 The kinship term 'Si-in-law' is independent of the variable age.

Result  a. The chi-square value between the term 'Si-in-law' and the variable age = 1.6101

b. It's level of significance for 2 d.f is very low.

The chi-square value obtained above is small and therefore there is no significant association between the above kinship term and the variable age. Hence, the hypothesis that the term 'Si-in-law' is independent of the variable age, is retained.

Hypothesis 4.36 The kinship term 'Br-in-law' is independent of the variable age.

Result  a. The chi-square value between the term 'Br-in-law' and the variable age = 0.3844

b. It's level of significance for 2 d.f is very low.

The result shows that there is no significant relationship
between the term 'Br-in-law' and the variable age. Therefore, the above hypothesis is retained.

**Hypothesis 4.37**  The kinship term 'Mat Unc So' is independent of the variable age.

**Result**  

a. The chi-square value between the term 'Mat Unc So' and the variable age = 2.9464  
b. It's level of significance for 4 d.f is small.

There is no significant evidence to show that there is an association between the above kinship term and the variable age. Hence, the hypothesis that the term 'Mat Unc So' is independent of the variable age, is retained.

**Hypothesis 4.38**  The kinship term 'Pat Ant So' is independent of the variable age.

**Result**  

a. The chi-square value between the term 'Pat Ant So' and the variable age = 1.5314  
b. It's level of significance for 4 d.f is very low.

The obtained chi-square value shows that there is no significant relationship between the term 'Pat Ant So' and the variable age. Therefore, the above hypothesis is retained.

**Hypothesis 4.39**  The kinship term 'Mat Unc Da' is independent of the variable age.

**Result**  

a. The chi-square value between the term 'Mat Unc Da' and the variable age = 2.6244  
b. It's level of significance for 4 d.f is very small.

The result shows that there is no significant association between the above kinship term and the variable age. Hence, the hypothesis that the term 'Mat Unc Da' is independent of the
variable age, is retained.

**Hypothesis 4.40** The kinship term 'Pat Ant Da' is independent of the variable age.

**Result**  
- a. The chi-square value between the term 'Pat Ant Da' and the variable age = 3.7532  
- b. Its level of significance for 4 d.f is small.

The chi-square value obtained above shows that there is no significant association between the kinship term 'Pat Ant Da' and the variable age. Therefore, the above hypothesis is retained.

**Hypothesis 4.41** The kinship term 'eld Si' is independent of the variable age.

**Result**  
- a. The chi-square value between the term 'eld Si' and the variable age = 3.5307  
- b. Its level of significance for 4 d.f is low.

There is no significant evidence to show that there is an association between the term 'eld Si' and the variable age. Hence the above hypothesis is retained.

**Hypothesis 4.42** The kinship term 'yon Si' is independent of the variable age.

**Result**  
- a. The chi-square value between the term 'yon Si' and the variable age = 0.2656  
- b. Its level of significance for 2 d.f is small.

The chi-square value obtained above is small and therefore there is no significant relationship between the term 'yon Si' and the variable age. Hence, the above hypothesis is retained.

**Hypothesis 4.43** The kinship term 'eld Si Hu' is independent of the variable age.

**Result**  
- a. The chi-square value between the term 'eld Si Hu'
and the variable age = 8.4350
b. Its level of significance for 4 d.f is very low.

The result shows that there is no significant association between the term 'eld Si Hu' and the variable age. Therefore, the above hypothesis is retained.

Hypothesis 4.44 The kinship term 'yon Si Hu' is independent of the variable age.

Result a. The chi-square value between the term 'yon Si Hu' and the variable age = 26.4424
b. Its level of significance for 10 d.f = 0.01

There is evidence to show that there is a significant relationship between the term 'yon Si Hu' and the variable age. Hence, the above hypothesis is rejected with 99 percent confidence.

The frequencies for the usage of the terms 'Si So', 'Si Da', 'Br So' and 'Br Da' were not put through the chi-square test because there was no variation.

Hypothesis 4.49 The kinship term 'eld Br' is independent of the variable age.

Result a. The chi-square value between the term 'eld Br' and the variable age = 9.0266
b. Its level of significance for 4 d.f is very small.

The chi-square value between the term 'eld Br' and the variable age is not significant. Therefore, the above hypothesis is retained.

There is no variation in the usage of the term 'yon Br'. Therefore, the results were not put through the chi-square test.
Hypothesis 4.51 The kinship term 'eld Br Wi' is independent of the variable age.

Result  a. The chi-square value between the term 'eld Br Wi' and the variable age = 0.5656
b. It’s level of significance for 2 d.f is very small.

The result shows that the chi-square value between the term 'eld Br Wi' and the variable age is very small, and therefore not significant. Hence, the above hypothesis is retained.

Hypothesis 4.52 The kinship term 'yon Br Wi' is independent of the variable age.

Result  a. The chi-square value between the term 'yon Br Wi' and the variable age = 2.2440
b. It’s level of significance for 4 d.f is low.

The chi-square value obtained above is small and therefore there is no significant relationship between the term 'yon Br Wi' and the variable age. Hence, the above hypothesis is retained.

Hypothesis 4.53 The kinship term 'So' is independent of the variable age.

Result  a. The chi-square value between the term 'So' and the variable age = 2.4022
b. It’s level of significance for 2 d.f is very small.

The result shows that there is no significant association between the term 'So' and the variable age. Therefore, the above hypothesis is retained.

There is no variation in the usage of terms for 'Da'. Therefore, the results were not put through the chi-square test.

Hypothesis 4.55 The kinship term 'So-in-law' is
independent of the variable age.

**Result**

a. The chi-square value between the term 'So-in-law' and the variable age = 10.0599

b. Its level of significance for 8 d.f is low.

There is no evidence to show that there is a significant relationship between the term 'So-in-law' and the variable age. Hence, the above hypothesis is retained.

**Hypothesis 4.56** The kinship term 'Da-in-law' is independent of the variable age.

**Result**

a. The chi-square value between the term 'Da-in-law' and the variable age = 0.5566

b. Its level of significance for 2 d.f is small.

The chi-square value between the above kinship term and the variable age is small and insignificant. Therefore, the hypothesis that the term 'Da-in-law' is independent of the variable age, is retained.

**Hypothesis 4.57** The kinship term 'Ch Fa-in-law' is independent of the variable age.

**Result**

a. The chi-square value between the term 'Ch Fa-in-law' and the variable age = 29.6768

b. Its level of significance for 10 d.f = 0.01

The obtained chi-square value between the term 'Ch Fa-in-law' and the variable age, is highly significant. Hence, the above hypothesis is rejected with 99 percent confidence.

**Hypothesis 4.59** The kinship term 'Ch Mo-in-law' is independent of the variable age.

**Result**

a. The chi-square value between the term 'Ch Mo-in-
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<th>CASTE</th>
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b. It's level of significance for 6 d.f is very small.

There is not enough evidence to show that there is a significant relationship between the above kinship term and the variable age. Therefore, the hypothesis that the term 'Ch Mo-in-law' is independent of the variable age, is retained.

3.3 The results of the statistical analysis show that there is a significant relationship between speech variation and the factors caste, education and class. The factor age is relatively less significant than the other factors in accounting for speech variation.

The following tables show the chi-square values ($X^2$) between kinship terms and the sociological variables, and their levels of significance. A significance level of 0.01 or 0.05 means that there is a highly significant association between the variables. If the obtained chi-square value is small, then there is a significant association between the variables.

Table 3.1

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Notes and references

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