4.1 Database

Data is collected from one of the leading coaching class of India situated in Indore. This is a collection of data from the year 2006 to 2013.

The number of students was not predetermined; a questionnaire was distributed to know the number of hours devoted to study and income of their parents. The population of the study included all students admitted in the coaching class of Indore. These students were taking GRE test in order to be admitted to University abroad. The sample size was students from a single coaching class of Indore. No specific sample size of students was predetermined but the process of judgment sampling was adopted. However, only those students were taken who were admitted in last 5 years. The
students were from 12th to final year students and also some of them were working. The age group was between 18 to 25 years in general.

The total sample size of 722 students was taken. The students included in the sample frame were students from all financial backgrounds, girls and boys both, all age groups, all disciplines like Engineering, Medical, Agriculture, Dental, Management, and High school. This entire group was chosen from Indore only.

The study was restricted to the Indore city in Madhya Pradesh state. Indore is Educational hub of MP. The city has 3 Medical colleges, 50 Engineering Colleges and all kinds of best colleges. The coaching is 25 years old and catering to almost all kinds of students.

The study is fully based on primary data. The tools constructed for data collection was questionnaire and a test given to students from a sample collected from coaching.

4.2 Dependent Variable(GRE Score)

The objectives of this study was forecasting and controlling the results of an Aptitude Test like GRE and identifying the factors controlling the scores. The dependent variable is GRE score. Understanding the relationship of score with the determinants through which it can be calculated. Data screening process was done to ensure that questionnaire obtained was appropriate for the research in terms of completeness. It was then followed by statistical analysis and finally data was subjected to descriptive and inferential analysis through Linear Regression Model and Comparative
4.3 Independent Variables (Determinants)

Working with the Hypotheses that GRE score can be estimated if we note certain factors such as the initial background of a person, the independent variables are noted down for continuously 5 years. All variables are chosen as it is. For example, the GRE score varies from 400-1600, so individual scores are taken without any calibrations. Similarly, the verbal and quantitative scores varies from 200-800. They are also taken as they were noted. The 10th and 12th percentage was taken as from 0-100%. The income was noted from 3-15 lacs/annum. The number of hours given are noted as stamina and were asked by the students.

The information collected and filled questionnaire was categorized according to research variable and constantly compared to the related literature review in order to clearly understand the particular phenomenon understudy and the research into particular context.

The educational background related questions consisted of percentages in 10th, 12th and undergraduate classes. The schooling from what type of High School whether private, public or semiprivate. The occupation of parents and their socio-economic status, whether in business or government job, or private company job were the questions included. Finally a survey was conducted about the number of hours given for studies.

An evaluation Test consisting of various items of aptitude test is given to students. The questions are based on reading passages such as inference,
factual, nonfactual, main idea. Also, sentence completion and analogies questions are asked in verbal section. The marks are obtained out of 38. In quantitative section word problems and quantitative comparison problems are asked. The marks are obtained out of 30. Finally, the raw scores obtained are doubled. For example if a student got 24 in verbal and 25 in quantitative, so his score was taken as 48 and 50. These scores were converted in an edited score through a table in appendix-A. So the edited scores were 520 and 720, which were used for calculating the final score. Here the final score is 1240 out of 1600. Hence scores are controlled and forecasted.

The marks are noted. A form is given to student to understand his family background. Final scores are asked from students once they have takes final test and noted down which is dependent variable.