In Chapter 2, an in-depth analysis is made on most influential algorithms which have given significant contributions to several efficiency issues of FPM problems in Big Data. In addition to this literature survey on FPM using constraints is also dealt.

Chapter 3 introduces the concept of FIM, its notations and methodologies. FIM Methods based on layout of data (horizontal as well as vertical) are described in this section. An algorithm of each basic category of FIM methods has been explained here such as Apriori, FP growth, Eclat etc. Description of the proposed improved FP growth algorithm. Experimental Result of the proposed work is shown.

Chapter 4 describes the need for constrained pattern mining and also describes different types of constraints for FIM. Constrained FIM in Big Data has also been explained.

Chapter 5 deals with description of uses of cache and how it can be used in Modified MapReduce algorithm for FIM in Big Data. Experimental Results of the proposed work is shown.

In Chapter 6, conclusions of the research work are given and scope for future study is indicated.