

# Abstract

## Replacing a Keyboard Based Client with a Touch Based Client for Hive

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During the times when engaging with social networking sites has become a way of life, the data collected due to the activities of the user is enormously high. Big data grows in large volume at a very high velocity in a variety of formats such as audio, video, image, text etc. At such a high rate of inflow of the data, it is difficult to process a high volume of data. However, Hadoop solves this problem of processing the big data by using MapReduce programming. The MapReduce technique breaks the problem into various sub-problems, which are solved individually. Though this technique is complex, technologies like Hive, Pig etc. create an abstraction layer that accepts queries as input and converts the queries into MapReduce jobs.

This research aims at replacing the keyboard based client with a touch based client by creating an extra layer of abstraction which takes a touch as an input and converts it into a query. This thesis describes the implementation of such a client for Android based devices called *Touch Client*. A study is conducted by performing a few tasks on both command line interface and the touch client. Finally, the evaluation is done by comparing the time taken to perform each task on both interfaces along with the system usability scale test. This touch client makes it easier for the user as it supports a feedback on their touch events of the user, allowing the user to construct the intended query quicker than a command line interface.