3. Objective

Several difficulties are faced by the testers testing the database application with embedded queries, one of the major problems encountered when performing test of SQL statements is that of estimating the adequacy of the test cases. This means that, given an SQL statement and data from the database, is it possible to know whether all the possibilities of the query are covered?

The motive of the dissertation is to present empirical comparison and performance of the adequacy criteria suggested by G.M. Kaphammer & M.L.Soffa and David willmore & Suzanne, by analyzing it in detail. Also an attempt will be made to find an alternative solution or criteria to overcome the problems that may be encountered in the said criteria.

Following are the objectives in proposed research:

1. Perform manual test on Database application with embedded SQL query.
2. Apply Dataflow Based adequacy criteria on the application and Check the performance of Dataflow Based adequacy criteria. Draw and record the inferences.
3. Apply Structural adequacy criteria on the application and Check the performance of Structural adequacy criteria. Draw and record the inferences.
4. Compare the inferences drawn for both the criteria.
5. Mention the evaluation.
6. Attempt to remove any flaws encountered.