

Intern Requirement

No. of students required	2
Preferred Discipline	<ul style="list-style-type: none">• Computing / Computer Science• Computer Engineering
Prerequisites/ Skills Required	<ul style="list-style-type: none">• Exposure to relational and/or non relational databases• Basic Knowledge of XML and/or JSON• Preferably some experience in web application development

Project Details

Title	Performance Comparison of Non-Relational Databases vs Relational Databases
Overview/Background	With the rise of the NoSQL movement in the industry and the corresponding increase in the number of NoSQL databases, many companies such as Google, Facebook, Amazon, Last.fm and Digg have chosen NoSQL databases to achieve the performance required for their data-intensive applications.
Objectives/Scope/ Deliverables	<p>The aim of this project will be to benchmark two NoSQL databases against an Oracle RDBMS. This will be done by populating two NoSQL databases, MongoDB and HBase, with identical data sets as those used by an existing application and Oracle database. Benchmarks to be done include the speed of data insertion as well as the query time for both the Oracle database as well as the NoSQL databases so that an unbiased conclusion could be drawn from the benchmarks.</p> <p>The conclusion would enable us to determine the tradeoffs and possible benefits, if any, to be gained from choosing a NoSQL database over a relational database such as Oracle. Recommendations would be made for the scenarios calling for the use of either database technology.</p>
Project Duration	2-4 months