Abstract

The requirement of application development as one of business support sistem is directly proportional to resource needs. Increasingly sophisticated application, it requires a great resource. One of application that require big resource is Pipeline Integrity Management Status Application as one of sistem for corrosion detection in oil pipeline. One of resource who require by that application is database as a place to store statistic data which will be used for calculation corrosion tool in oil pipeline. Big resource because of the long response time in a query. Especially, query which used for showing calculation value. Therefore, we need analysis to solve performance problem in database. One of we can doing to solve this problem is tuning the database sistem. Database tuning coverage repair data schema, adding index for searching data, and repair the query which used. In this case, we will encounter many practical problem depend on the database. Because, each database have different problem. Output from tuning is all of recommendation performance which will be used by company. Parameter for successful for this research is the value of response time after tuning that suited with client expectation. The calculation which will be analyzed are Risk Assessment Level 1 and Risk Assessment Level 2.

Keywords : *database*, *tuning*, *query*, resource, oil pipeline corrosion, *response time*