

# PERFORMANCE IMPROVEMENT THROUGH INDEXES IN ORACLE 11G

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## Abstract

Nowadays every organization store their data in a database form. Without a database the organization will not survive. To build a new database application we need to spend a lot of money and time in order to have a superior product. Everyday an organization will want to add more features in order to grow and extend the product in different directions which presents a competitive advantage for any organization. But, when increasing the size of the database many organizations are incredibly sensitive to poor performance. This problem was introduced many years ago and it is still very important. During accessing data through SQL statements and doing different transactions to the database, we have to think about database performance. A good solution for performance is to optimize queries which will help to run more efficiently, faster and in this way we will save a significant amount of time. This paper will introduce indexes as a specific and very important strategy for query optimization. It will be focused on explaining indexes in Oracle database, types of indexes, their importance and also when we need to index, which index is ideal for improving the performance and speed of the execution of SQL statements.

**Keywords:** *optimization, performance, indexes, oracle, database.*