

## ABSTRACT

The Design and Development of A Prototype for A Distributed Inventory  
System for the Faculty of Agriculture and Natural Sciences

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In order to satisfy information requirements and simplify management operations, the need for a computer inventory system arises for the faculty of Agriculture and Natural Sciences.

This project presents a design for a distributed inventory system; Oracle is used to illustrate the implementation process in the form of a prototype.

The design distributes or partitions the data according to department, thereby ensuring quick and easy access to local as well as remote data.

This project report also examines such issues as concurrency, performance, database administration, and security, and will present possible solutions for recovery operations in the event of system failure, and provides recommendations where possible.

A possible interface design is also presented, as well as all SQL statements executed in the implementation of the prototype.

**Keywords:** Christine Jones; Distributed databases; Database design.