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This thesis entitled

A Query Optimization Algorithm
for an
Object-Oriented Data Model

designed by

Mark Joel B. Miranda

and submitted in partial fulfillment of the requirements of the degree of
Master of Science in Computer Science has been examined and is
recommended for approval.

Mr. Raymund Sison
Adviser

DE LA SALLE UNIVERSITY

ABSTRACT

Most query optimization algorithms have been designed for relational database systems to improve their performance in generating results for content based queries. Object-oriented database systems presents a different way of managing a database. Research on query processing in object-oriented databases is still in its initial stage. This is the reason why it is one of the research issues of object oriented database interest groups.

A query optimization algorithm for an object oriented database model will be presented. This algorithm will perform optimization on queries that can be specified in the object oriented database model. To support the algorithm, an object oriented database model and an object-oriented algebra will also be presented.
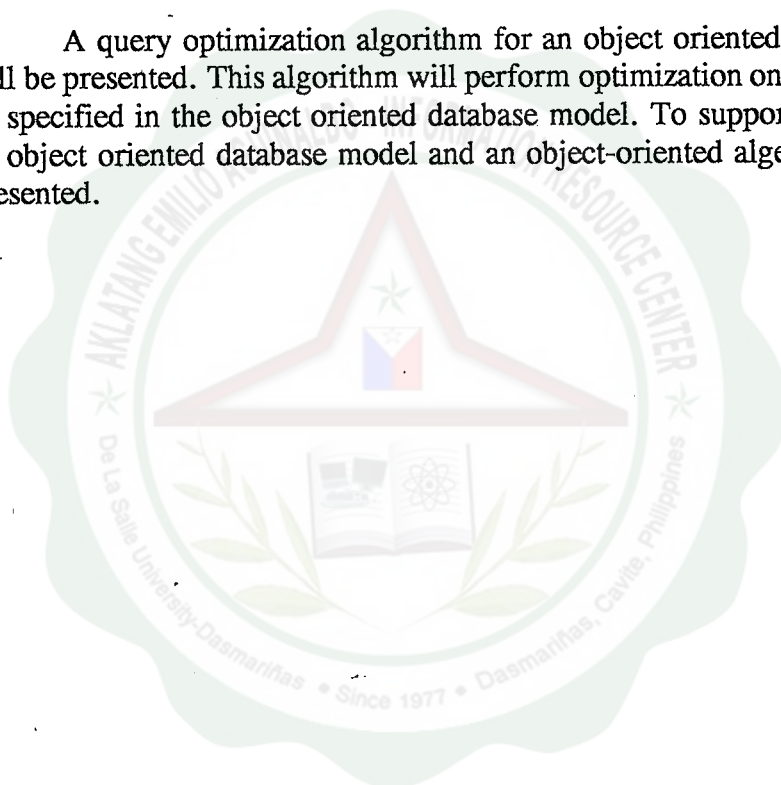
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