# Abstract

*Database Refactoring* is a process to improve design of a database schema by observing some factors called *database smells*. Design changes of a database schema will affect processing time and cost for processing the *query* itself.

Using a logic representation, which is *entity relationship diagram* (ERD), a design is made from a database schema that has been refactored. In compeleting *query* processing on a choosen bussines process, refactored schema can done all the *query* processing although if compared to schema without *Refactoring* from *query* processing point of view, the result is not far difference. But proven that there is some case where the cost for *query* processing can be reduced using refactored schema.

**Keywords**: *Refactoring*, database schema, *query*