

ABSTRACT

Writing SQL code through handcoded and repeatedly is being a problem for programmer to maintain application. One of solution is by implementing ORM. Generally, ORM is a way to map an object from application to relational database table. The object from application is mapped by ORM and then is changed to SQL. After that SQL is run in relational database and the result is returned to object in application by ORM (Object Relational Mapping). Method which is used to make SQL generator is builder pattern. To handle database changing, strategy pattern is used.

There are some paramater which is tested in this ORM implementation : application functionality when ORM is working, similiarity between class metadata and database metadata, database changing and LOC (Line Of Code) comparation between application with ORM and without ORM.

Based on result of analysis, ORM implementation can reduce database coupling and line of code in application model. Beside that, if there are changes on metadata database, it will be done in presentation layaer and database. ORM as persistence layer do not change.

Keyword : *Object Oriented, SQL, ORM, persistance layer, LOC, RDBMS, PHP*