Abstract

UML has been accepted in both academia and industry as a de facto modeling language to develop software systems. As relational databases are widely used for developing software systems, thus, it is a challenge to derive relational tables from designed models. In this paper, is building tool in C# language to designing a relational database system based on Object Oriented Analysis and Design that class diagram, by create the document xml that extract from class diagram, based on class name, attributes name, data type the relationships among the classes, multiplicity, Inheritance, And this concepts are not supported in the relational database. Therefore, use is algorithm and rules to translate the relational database.

References

1. S. Mohd, R. Parit, Proposal for Constructing Relational Database from Class Diagram, Vol. 3, No. 2; May 2010
2. Sparx Systems, Database Models, 2017


6. Alsaadi, A, Checking Data Integrity via the UML Class Diagram, 2006, Proceeding of International Conference on Software Engineering Advances (ICSEA 06), IEEE


**Index Terms**

Computer Science, Databases

**Keywords**

Class diagram, XML, Relational Database, Relationship C# language