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Abstract

An appropriate cost metrics for estimating development effort of the database part of an application at conceptual design stage using ER model is an important consideration. We propose four cost metrics based on the level of complexity of an ER diagram. Our effort estimation technique is based on these metrics using an empirical mathematical expression

which is capable to predict total database complexity efficiently. Again, its outcome shows that the developmental effort is directly proportional to the total entity complexity and its total database complexity.

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Index Terms

Computer Science

Software Engineering

Key words

Entity Complexity
Constraints

Relationship complexity

Depth of Inheritance

Effort estimation

