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.
Early Estimation of Back-End Software Development Effort

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.

Reference

- Yuan Zhao, and Hee Beng Kuan Tan, Wei Zhang, Software Cost Estimation through Conceptual Requirement, Third International Conference On Quality Software (QSIC’03), 2003 IEEE, pp.141
- Jianfeng Wen, Shixian Li, Linyan Tang, Improve Analogy-Based Software Effort Estimation

**Key words**

Entity Complexity  Relationship complexity
Constraints

Depth of Inheritance

Effort estimation

**Index Terms**

Computer Science  Software Engineering