Data Base Reuse Methodology ReTARI

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ABSTRACT:
At the moment, organizations are used to transforming in a continuous way and one of the main changes is technology; it is needed to develop new systems that help old systems to evolve.

The modification and development of new systems also involve Databases structures. The software developers need to study old data base designs because they are focal points for the construction and design of new systems. However, the access and reuse of these database designs is difficult, thus existing knowledge is difficult to be utilized. In consequence this makes less efficient the design of new databases.

This report proposes a semi-automatic database design methodology for reuse. The methodology named ReTARI is structured in five steps: Exploration of existing databases structures, Transformation, Storing, Recovering and Integration. ReTARI proposes the use of reuse techniques on databases structures in order to reuse them in the construction of new software systems. In consequence, the final goal of ReTARI is to improve the productivity and quality of new databases designs and as a result to improve all the software development process.

Key words: Reutilización de software, Repositorio de software, Indexación, Recuperación, Bases de Datos.