Testing Pre and Post Conditions with Predicate Logic for Database Components

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Abstract

This paper deals with development of formal definitions for SQL Select Statement using predicate logic and experimental verification using component based approach. This paper begins with predicate logic to create the formal proofs for selected SQL queries and finally testing them on an experimental system. The proposed approach can be very much helpful in formulating simple as well as complex queries and evaluating their correctness and facilitate reliable implementation using database components.

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