Designing and Development of Database Testing Tool

Abstract

Tool enable user to perform all the operations from the beginning of data definition which includes Creating, Altering, Dropping and Truncate of table to the data manipulation that includes Selecting, Inserting, Updating and deleting of data, which is followed by controlling them that is commit and reset. In Data Definition we have commands of Creating and dropping of databases followed by creation of tables within a database. And it also allows altering the contents of table either by adding column(s) or removing them. Along with this, user can truncate the table that is removing the whole content of a table. In data manipulation, user has the provision of selecting a specific amount of data from a table by using "where" clause in the command of view data. User can also view data from different table(s) of databases by using sub-queries and join commands according to the requirement. User can insert, update and delete a number of data items whenever and whichever required. At any instance user has a provision of commit and reset of transaction.

References

Application Programs with Conceptual Data Model; Proceedings of the 5th International Conference on Quality Software (QSIC 2005), IEEE Computer Society Press, Los Alamitos, California
- Haller, K. (2009), "White-Box testing for Database-driven applications: A Requirement Analysis", Zurich, Switzerland.
- Howard, P. (July 2012), "Exploring Successful Approaches to Test Data Management - A White Paper by Bloor Research".
- Just, R. Jalali, D. and Michael D. "Defects4J: A Database of Existing Faults to Enable Controlled Testing Studies for Java Programs"; Computer Science and Engineering University of Washington.
- Mu, K. Yuriy, S. and Meliou, B. A. "Data Debugging with Continuous Testing"; Computer Science & Engineering School of Computer Science University of Washington University of Massachusetts Seattle, WA, USA
- Paygude, P. and Devalle, P. R. "Automated Data Validation Testing Tool for Data Migration Quality Assurance"; International Journal of Modern Engineering Research
- Raquel Blanco, R. Tuya, J. and Seco, R. V. "Test adequacy evaluation for the user-database interaction: a specification-based Approach" University of Oviedo Gijón, Spain

**Index Terms**

Computer Science  
Software Engineering
Keywords
MySQL LAMP PHP JSP GUI XML IDM TPC-C