

AUTOMATION OF DATA VALIDATION TESTING FOR QA IN THE PROJECT OF DB MIGRATION

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ABSTRACT

During the process of the Data Migration (DM), too much data is extracted, transformed, structured, and loaded (ETL) from legacy/source database into a newer structure that is the target database. This process leads to various types of changes in data, known as data corruption. Therefore, it is essential to perform data validation testing after data migration process over. The validation of transformed data for QA process is substantially more demanding to accomplish. Not just there is a high risk that the structure has been modified, furthermore it might happened that the data itself has been liable to considerable updates. A number of attempts were made to validate data manually or automating the process; but there are limitations in measuring dimensions like time, cost and resource utilized. Here, authors emphasis on automation of data validation approach for quality assurance (QA) in the project of data migration. The paper describes existing data validation methods with their limitation. Afterwards, it elaborates in detailed architecture and process flow of implemented automated tool.

KEYWORDS: Automation, Data Validation, ETL, Migration, QA, Testing