

Managing test data to improve efficacy of testing

Test Data Management

Voice of Customers

"A lot of time is being consumed for test data creation. Is it possible to shorten this phase to attain faster time to market."

"My organization is large and multi-geographic. Hence there is no consistency in the test data generated and used across locations. It would be good if there is single source for updating and retrieving test data"

Test Data plays the central role in testing. Migrating data from production environment for testing could be effective but may lead to performance related issues and security concerns. On the other hand generating test data from scratch is tedious and cumbersome as it requires intimate knowledge of all the business rules of the application. There is a need to strike a balance because efficient test data management process could help to cut IT costs significantly.

Cognizant Solution -Test Data Management

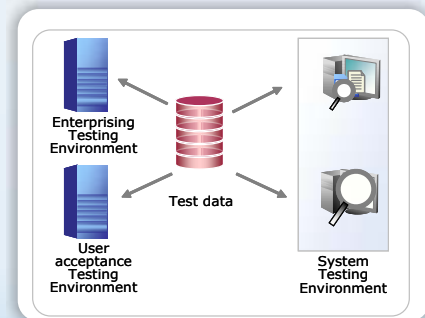
Cognizant presents its unique approach to Test Data Management that enables you to improve efficiency of testing while ensuring data integrity and security.

Cognizant creates a initial baseline database by migrating a small portion of production data which is desensitized and populated for testing. This increases test effectiveness through the use of real time data. Hot fixes and Data refresh are done frequently to maintain data integrity.

Cognizant Test Data Management Architecture is designed to facilitate test data generation through automation and smoothen data uploading and reporting.

The architecture also facilitates reusability of test data for testing in distributed environment. This improves project manageability by mitigating confusion caused due to the creation of different test data in every environment.

The architecture is designed to increase consistency by facilitating multi-user access to test data while ensuring data security. The use of production data for testing and automation of test data generation helps to reduce effort and also prevents errors that may arise due to manual creation of test data.



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Even in circumstances where production data is not made available, Cognizant with its domain expertise and testing experience would be able to generate and manage test data covering all business rules.

Business Benefits

- Reduces the complexity of managing and creating accurate test data
- The use of real time data improves test effectiveness
- Data refresh and hot fixes are shorter enabling faster turnaround
- Significant reduction in time and effort achieved through automation
- Decreases data redundancy and improves project manageability in a distributed environment

A leading European bank wanted to test their online booking platform. However prevailing data privacy norms deterred the client from migrating production data for testing.

Cognizant was engaged to test the online booking platform. Cognizant extended its test data management support to the client and was able to address issues related to data security.

Cognizant migrated and desensitized a portion of production data to create baseline test database. Cognizant automated the test data generation process and thus constructed a complete database for testing from the baseline test database. Cognizant provided the client, test data support for all subsequent application releases.

Business Benefits

- Complete test database was created from only 17% of production data.
- 68% effort savings achieved through automated test data generation.
- Data masking done to hide real data and the process followed ensured data integrity.



Cognizant
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