



End to End automated data
testing of EDW System
Case Study

A photograph of four business professionals (three women and one man) standing in an office environment with large windows in the background. They are all smiling and dressed in professional attire. A semi-transparent red horizontal bar is overlaid across the middle of the image, containing the text.

About The Customer

Our Customer was a leading co-operative society with a legacy of around 150 Years. It has its footprint in Food, Finance, Funerals, Property, Travel Holidays and Security businesses with retail stores spanning across three counties in East of England.

Customer was interested to store & handle its huge volume of data in warehouse to take business decisions that provide an edge over its competitors.



Challenges

Customer was changing their IT landscape on priority by the use of BI technologies to process customer and product data and gain new revenue opportunities.

There were many challenges during testing this new EDW system, few of them mentioned below –

- Identifying data quality issues is manual and error prone with hundreds of data rules.
- Manual testing was not possible in all stages as huge data volume and different data format was a big challenge.
- Transformation issues result in loss of data during ETL and was not be detected until a business user notices the issue.
- Validation of Complex Business rules, logics and different formats of data from multiple sources.

Strategy and Implementation

Tech Mahindra implemented automated data testing solution to cover each layer of EDW with below validations -

- Testing from Source to Target: Using the data testing tool for end to end testing.
- Data quality: Define and maintain Data Quality and Referential Integrity rules.
- Regression Suite: Providing a suite of regression test cases to the users where user can test for any kind of changes
- Complete testing of Dimension and Fact tables.
- End to End Test Automation through automated data validation tool

A background image showing a group of people in business attire clapping their hands. A semi-transparent red horizontal bar is overlaid across the middle of the image, containing the word 'Impact' in white text.

Impact

- 25% QA cost saved by using the Test Automation Tool.
- Reduction in data quality testing time by 20-30%
- Reduced test cycle times there by reduces the time to market
- More customer satisfaction due to delivery of defect free data
- More round of testing by using the regression test suite.

Thank you

Visit us at www.techmahindra.com

Disclaimer

Tech Mahindra Limited, herein referred to as TechM provide a wide array of presentations and reports, with the contributions of various professionals. These presentations and reports are for information purposes and private circulation only and do not constitute an offer to buy or sell any services mentioned therein. They do not purport to be a complete description of the market conditions or developments referred to in the material. While utmost care has been taken in preparing the above, we claim no responsibility for their accuracy. We shall not be liable for any direct or indirect losses arising from the use thereof and the viewers are requested to use the information contained herein at their own risk. These presentations and reports should not be reproduced, re-circulated, published in any media, website or otherwise, in any form or manner, in part or as a whole, without the express consent in writing of TechM or its subsidiaries. Any unauthorized use, disclosure or public dissemination of information contained herein is prohibited. Individual situations and local practices and standards may vary, so viewers and others utilizing information contained within a presentation are free to adopt differing standards and approaches as they see fit. You may not repackage or sell the presentation. Products and names mentioned in materials or presentations are the property of their respective owners and the mention of them does not constitute an endorsement by TechM. Information contained in a presentation hosted or promoted by TechM is provided "as is" without warranty of any kind, either expressed or implied, including any warranty of merchantability or fitness for a particular purpose. TechM assumes no liability or responsibility for the contents of a presentation or the opinions expressed by the presenters. All expressions of opinion are subject to change without notice.

Tech
Mahindra