End to End automated data testing of EDW System
Case Study
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.
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.
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
Impact

- 25% QA cost saved by using the Test Automation Tool.
- Reduction in data quality testing time by 20-30%
- Reduced test cycle times thereby 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

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