

Streamlining Data Accuracy: A Success Story in Fleet Management Testing

Distinguishing Client VIN Highlights and Resolving Data Anomalies Through Streamlined Processes

ORGANIZATION

XTIVIA's client is an international car rental and fleet-management service that has served millions of customers annually with five million vehicles in more than 15,900 global locations throughout the past five years. To streamline operational and financial risks across a diverse portfolio of locations and vehicles, the company licenses its brand to approximately 60 international franchise partners. Additionally, the client serves "insurance replacements" for insurance companies such as Allstate and State Farm to a wide range of corporate customers.

CHALLENGE

The client aimed to stand out from competitors and resolve data inconsistencies by delivering vehicle-specific highlights to customers at the time of pickup. Vehicle highlights are a set of essential car features for the client, encompassing aspects like ratings, marketing, sales, purchasing, planning, and customer-to-vehicle matching.

TECHNICAL SOLUTION

XTIVIA's testing team provided invaluable support to the client by thoroughly testing vehicle features and highlights while ensuring data integrity through rigorous data quality and profiling checks. With data sourced from multiple origins, our team expertly structured, processed, integrated, and loaded it into target tables to deliver high-quality insights.

Key achievements of XTIVIA's testing team included:

- We created realistic test data well in advance to minimize wait times and expand test coverage, ensuring a thorough evaluation of all functionalities.
- All source, target, mapping, and transformation information was organized into a centralized repository, improving traceability and facilitating efficient test management.
- Our team ensured the successful completion of ETL jobs before test execution, guaranteeing data readiness and process stability.
- Tools like Beyond Compare were leveraged to improve data quality checks and optimize testing efficiency, speeding up delivery without compromising quality.
- Early identification of defects was prioritized to prevent costly rework and keep the project on track.
- Business rules were validated within targeted timeframes, ensuring compliance with quality standards and minimizing the risk of production issues.

Through these efforts, XTIVIA's testing team delivered a streamlined, high-quality testing process that helped the client deploy a reliable, well-optimized solution for its users.

BUSINESS RESULT

By effectively providing vehicle features and highlights to customers, the client distinguished themselves from competitors and gained a competitive edge. XTIVIA's rigorous testing and standardization ensured this solution was robust and sustainable. The XTIVIA testing team delivered with exceptional quality standards.

KEYWORDS

QA, Testing, ETL, Data Transformation, Blending process, North American Vehicle Highlights (NAVH), AS-IS process, FOS, VISION, CARS+, Beyond Compare, Informatica, EBX, MDM

SOFTWARE

Informatica as an ETL tool, EBX as an MDM tool

ABOUT XTIVIA

At XTIVIA, we've been providing IT solutions and consulting services for over 30 years. We offer a wide range of services, including technology assessments, IT service and asset management, software development, data analytics, cloud migration, DevSecOps, ERP, and enterprise content management. Our team of experts is dedicated to each discipline, ensuring that our clients receive the best possible service. We've partnered with industry leaders such as Atlassian, IBM, Microsoft, Oracle, and more to bring our clients the latest solutions. Through strategic acquisitions, we've acquired talented people who are experts in their industries, passionate about what they do and committed to providing exceptional service to our clients. Whether you need to improve your IT infrastructure or implement new software solutions, XTIVIA is here to help you achieve your business goals. Contact us today to learn more about our services. XTIVIA has offices in Colorado, New York, New Jersey, Texas, Virginia, and India. www.xtivia.com