infoVia

HIGHER EDUCATION CASE STUDY

Driving real-time actionable insights and reporting efficiencies for Institutional Research

BACKGROUND

Many colleges and universities face challenges in data management as they handle vast amounts of information related to students, faculty, finances, and operations. With the increasing digitization of records and the growth of online education, institutions often grapple with issues like data security, integration of various systems, and maintaining data accuracy while striving to fulfill timely regulatory and board reporting requirements.

These struggles arise from the need to adapt to evolving technologies, ensure compliance with privacy regulations (FERPA, etc.), and streamline processes for efficient data utilization. Additionally, the complexity of managing diverse data sources, such as student information systems, research databases, and financial records, poses a significant hurdle.

DUE TO THEIR EXTENSIVE EXPERIENCE AND REPUTATION IN EXECUTING RAPID IMPLEMENTATIONS, **INFOVIA** HAS BECOME A WELL-KNOWN PARTNER IN HIGHER EDUCATION, SPECIALIZING IN VARIOUS DATA MODELING AUTOMATION SOLUTIONS THAT ENABLE THEM TO IMPLEMENT A COMPLETE DATA VAULT IN A FOURTH OF THE TIME IT TAKES USING TRADITIONAL METHODS.

CSCU Connecticut State Colleges & Universities

CWI COLLEGE OF WESTERN IDAHO

NEW YORK UNIVERSITY

COMMON CHALLENGES

- **Fragmented Data Management:** Universities, with multiple campuses, often grapple with fragmented data across various systems. Lack of integration hinders a unified view of student-related information crucial for effective decision-making.
- **Regulatory Compliance:** Reporting obligations to the state and institutional research demands precise and timely data. Without a comprehensive strategy, ensuring compliance with regulatory requirements becomes a complex and error-prone task.
- **Data Unification:** Without a cohesive strategy, universities may have fragmented data stored in various departments and systems, leading to information silos. The need to unify data from diverse sources into a single data warehouse, both physical and virtual, presents a formidable challenge. This impedes the establishment of a centralized and streamlined data ecosystem.
- **Real-time Metrics:** Achieving real-time metrics for key indicators like enrollment and degrees awarded is challenging without a next-generation data strategy. This limitation affects the institution's ability to respond promptly to changing dynamics and emerging trends.
- **Data Quality and Consistency:** Maintaining data quality and consistency across a diverse set of campuses is a persistent challenge. Without a comprehensive strategy, discrepancies in data accuracy can undermine the reliability of institutional reporting.
- **Resource Inefficiencies:** Overwhelming workload is often typical with internal teams struggling to deliver data demands. Further, without clear guidance, universities may allocate resources inefficiently, investing time and funds in disparate data management approaches. This can lead to redundant efforts and suboptimal outcomes.

WHY INFOVIA

Recognizing the need for improvement, many universities have brought in infoVia to revitalize their internal team's motivation, streamline the automation process, and successfully implement the Data Vault model to deliver tangible business value. Other reasons many renowned universities choose to partner with infoVia include:

- **Referrals and Third-Party Credibility:** Recommendations from other Professional Services organizations, coupled with infoVia's credibility in working with several automated data modeling tools, have influenced many decisions universities have made seeking a partner with expertise in data modeling automation.

- **Rapid Implementation:** infoVia's ability to set up data modeling automation environments in just a couple of days demonstrated efficiency and responsiveness. This swift deployment ensured a quick transition to a more robust data management system.

- **Adaptation to Emerging Needs:** infoVia has demonstrated agility by addressing pressing issues, such as pandemic-related challenges in resident halls. They efficiently implemented a Data Vault for resident hall data in just 47 minutes—instead of the two weeks estimated by the institution—showcasing their commitment to speed and adaptability.

- **Health Research Penetration:** Recognizing the need to delve into health research data, infoVia showcased expertise in navigating complex regulatory frameworks like HIPAA and FERPA, ensuring compliance and secure handling of private information.

- **Advisory Services and Experience:** infoVia's advisory services, coupled with their extensive experience, provided valuable insights. Their understanding of the DataVault approach, along with practical knowledge, positioned them as a reliable guide for the university's data strategy.

- **Efficient Data Model Design:** infoVia's approach to architecting a Data Vault design demonstrated incredible efficiency. Their collaborative effort, with one person specializing in data and another in applications, ensured a well-balanced and effective data model.

- **Low Cost – High ROI:** infoVia's expertise with various data modeling automation solutions enabled them to implement a complete Data Vault in a fourth of the time of traditional methods resulting in faster delivery of real business value at a fraction of the cost.

RESULTS

Universities partnering with infoVia as a data strategy consultant have reported significant and positive outcomes, showcasing the effectiveness of the collaboration. Many Universities have also reported the following results:

- **Swift Data Model Development:** infoVia demonstrates remarkable efficiency and has had success building comprehensive data models in less than two days. This rapid pace allowed universities to expedite their data strategy initiatives.

- **Automation Integration:** Leveraging automation tools, infoVia streamlines the data model-building process. This accelerates the development and contributes to the efficiency of the data management system.

- **Rapid Velocity:** The velocity achieved in implementing data solutions with infoVia is notable with quick turnaround time allowing universities to adapt swiftly to changing requirements and capitalize on emerging opportunities.

- **Regulatory Compliance and Reporting:** infoVia facilitated regulatory reporting for universities, ensuring accurate and timely submission of reports to the state. This enhanced compliance eased the burden of reporting obligations across multiple campuses.

- **Unified Data Ecosystem:** The ability to unify data from diverse sources into a single data warehouse, both physical and virtual, provided universities with a consolidated and coherent view of information. This was particularly beneficial for institutions with multiple campuses.

- **Real-Time Metrics**: infoVia enables universities to achieve real-time metrics for critical indicators such as enrollment and degrees awarded. This real-time insight empowered institutions, Provosts, Chancellors, and Boards to make informed decisions promptly.

In summary, the results experienced by universities partnering with InfoVia highlight their proficiency in rapid, automated, and efficient data model development, contributing to improved regulatory compliance, unified data ecosystems, and real-time analytics capabilities.

Unlock the Power of Your Data with infoVia
Contact us Today: contact@infoVia.com