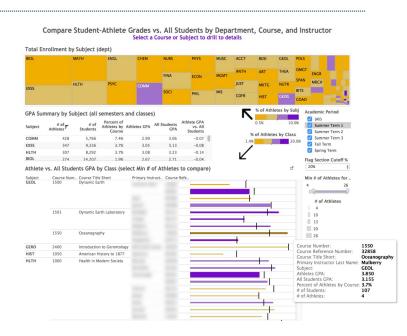| CHALLENGE	SOLUTION	BENEFIT
• Internal audit team wanted to use analytics to analyze Academic Integrity and compare grades of student-athletes to all students • High Profile assignment that would need to be repeated at least twice annually. • New to Tableau, visual analysis • Limited budget for consultants	• VRIQ's QuickStart methodology used throughout planning, brainstorming, data acquisition, script writing, and reporting. • On-the-Job training approach and rigorous methodology brought expertise to the project when most needed by the team. • Templates, documentation, and script examples were provided at the point they were beneficial and support re-use.	• Knowledge and examples were developed and provided at the point that they were needed. • Complex audit tasks accomplished using limited consulting dollars. • Reusable templates were built and have already been updated based on the next semester's grades with less than 1 hour of consultant assistance.

Q: How can an internal audit team get up the learning curve quickly, and demonstrate value of using Tableau for audit data analytics?
A: By working with experienced Tableau partners who know audit data analytics and internal audit issues specific to higher education.

Situation: Our client, a leading Research University with a mid-sized internal audit department wanted to review academic integrity in greater depth, given recent, high-profile issues at other universities. The project had significant visibility among many stakeholders, and sampling was seen as an inferior technique to more in-depth, data analysis using Excel, Tableau and visual reporting.

Engagement: Beginning with audit planning, the team from Visual Risk IQ participated in prioritizing business reporting objectives and cross-referenced these objectives against available digital data. Once confirmed, the combined team acquired the data from Banner and developed the visualizations that are being used each semester for on-going review of academic integrity.

Outcome: Specific, actionable items were identified based on analysis of course clustering of student athletes and grade differences in some classes and departments. More actionable items were also identified based on grade differences between certain instructors within the same department.

Compare Student-Athlete Grades vs. All Students by Department, Course, and Instructor

"We feel much better about the quality and depth of our testing, and love that we were able to repeat the analysis in the current semester without additional help." - Chief Audit Officer

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Discussion: *It has been said that the best source of knowledge is experience. The approach and methodology used on this project are based on our firm's collective experience in guiding client staff through internal audit and data analytics projects across a variety of business processes, technologies, and audit software tools.*

Body of Knowledge Framework:
Central to our work are the following seven learning domains from our Body of Framework for Audit Data Analytics.

- Project Management
- Data acquisition and manipulation
- Statistical techniques
- Visual Reporting Techniques
- Communication skills
- Audit and Compliance Domain Expertise
- Strategic Risk and Change Management

We build on the capabilities that our clients have in each of these key areas, and supplement any skills or experience gaps that need to be filled.

"With your team's help we've shown how Tableau and visual reporting helps our university focus on the issues and exceptions that can hide beneath the surface in our data.

We've gotten approval quickly from university leadership to work with Visual Risk IQ on another audit project, and our team is already stepping up their data analytics abilities with this next audit project.

- Chief Audit Officer

About the Firm: Visual Risk IQ was formed in 2006 to help large, complex organizations take advantage of new technologies for continuous auditing and monitoring, visual reporting and risk-focused data analysis. We are alliance partners and implementation specialists for Oversight Systems, Tableau, ACL, and CaseWare IDEA and deliver tailored solutions for our clients both directly and in concert with our implementation partners.

Joe Oringel
CPA, CIA
Partner

Kim Jones
Partner