

# Modern Learning Analytics in Higher Education

## Business Challenge

Private University was challenged with limited information related to course, department and program outcomes that is necessary for student achievement and accreditation.

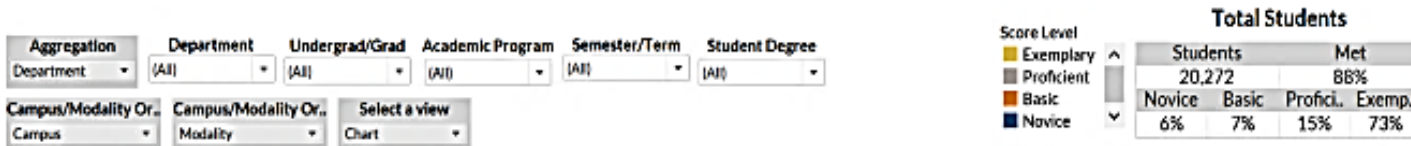
## Solution

- **PLO (Program Learning Outcomes) Dashboard:** used for accreditation: Provides course learning, program, combined major, and accreditation outcomes.
- **Learning Management Datamart:** created to support learning analytics that involved engineering a data ecosystem across four data sources.

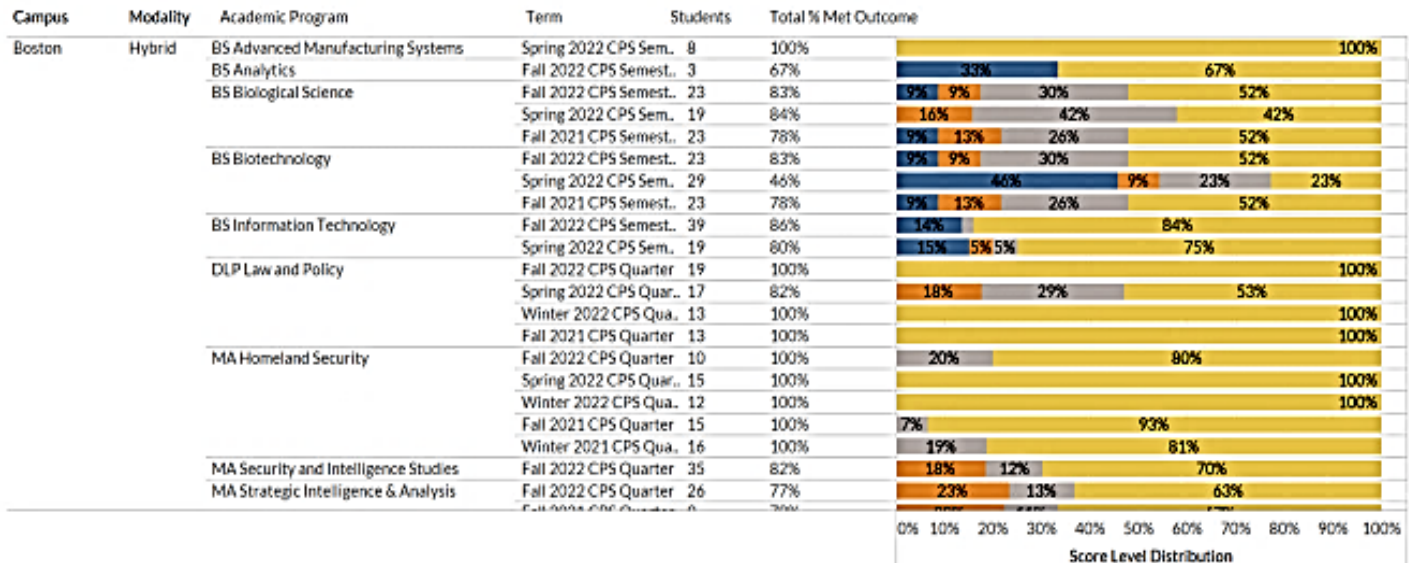
## Approach

- Architect a Cloud data platform and integrate multiple data sources via application and data integration
- Work with stakeholders to define and develop dashboards and reports.
- Design & implement Data Science sandbox on the Snowflake Data Cloud for Alumni Relations organization
- Deliver data design patterns for learning analytics and RFM Modeling, user experience, data pipeline ingestions and user access and control

## PLO Achievement by Program: Section and Curriculum Variables



## PLO Achievement by Program, Section, and Curriculum Variables



## Business Value

- An approach to examine student learning and achievement
- Analytical insights to drive better learning outcomes and increased efficiencies in the accreditation process
- Ability to provide feedback to faculty to allow Client to improve course and programs delivery