Report Summary

Objective

This project analyzes student enrollment, degree completions, retention and graduation rates, and staffing trends using simulated institutional data from 2019 to 2023. The purpose is to demonstrate data and analytical ability by building reports and a dashboard with SAS, SQL, and Power BI.

Tools & Methods

- SAS Studio for data import, cleaning, and summarization
- SQL for querying and replication of analysis
- Power BI for interactive dashboard development
- CSV files structured to simulate real institutional data

Datasets

- Enrollment.csv: Student count by year, gender, residency, and distance status
- Completions.csv: Degrees awarded by program, gender, and race
- Retention.csv: Retention and graduation percentages over time
- Staff.csv: Staff count by department, role, and gender

Key Insights

Enrollment

- Out-of-state and distance education enrollment increased significantly

Degree Completions

- Business and Computer Science programs awarded the most degrees

- Women in STEM completions trended upward each year

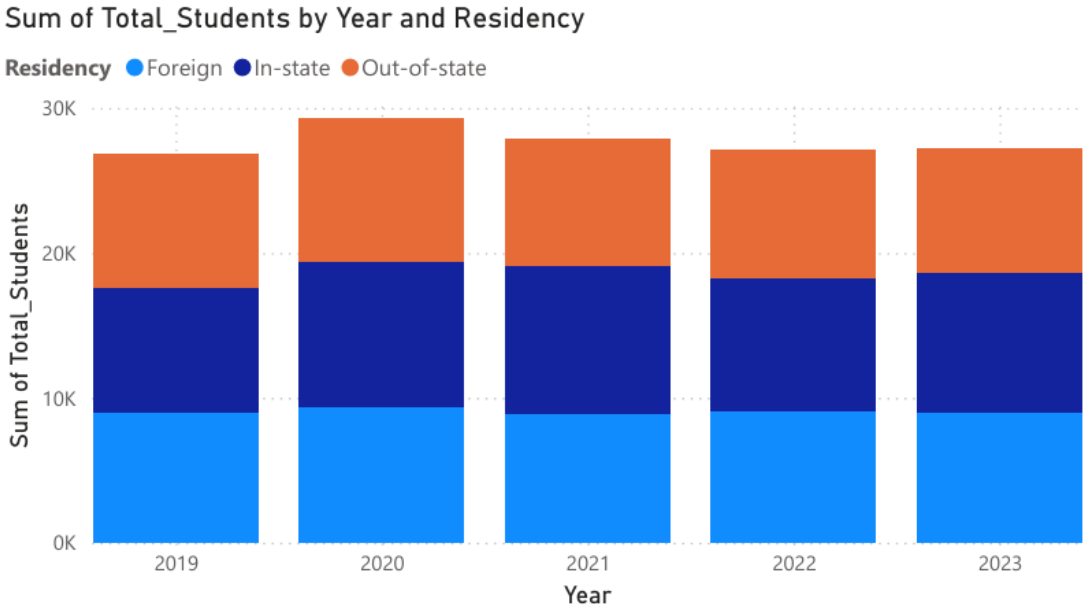
Retention & Graduation

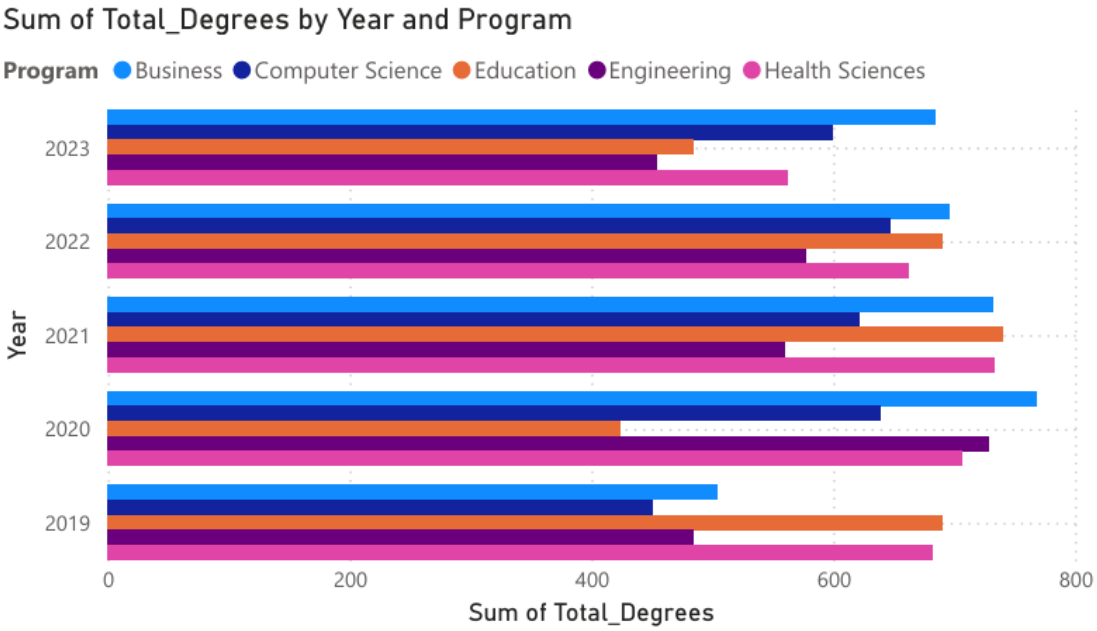
- Retention rates dipped during the 2020 academic year, likely due to COVID-related disruptions, then recovered and peaked at 82% in 2022.

Staffing

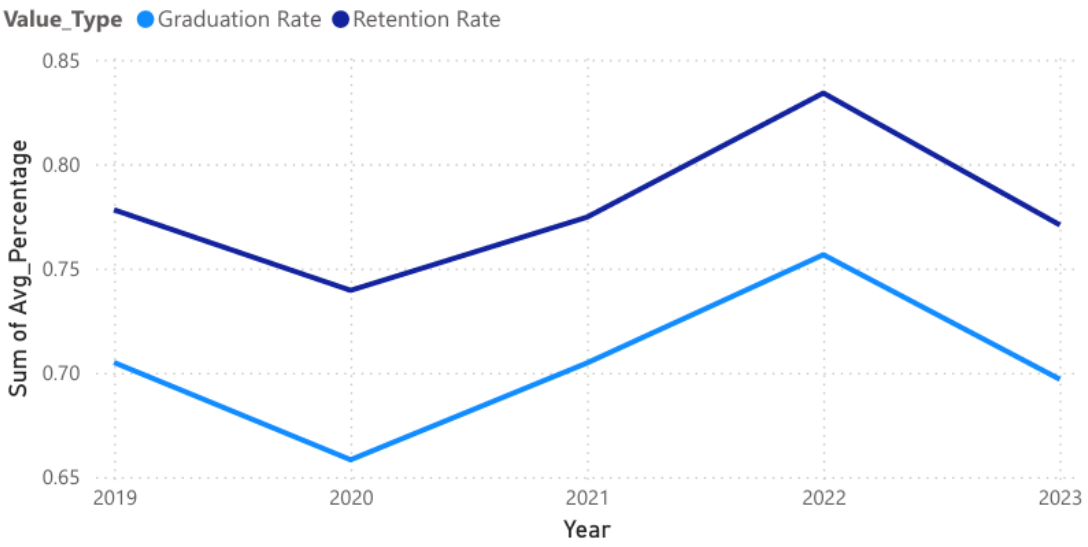
- Growth in Admin roles, stability in Support roles, and Faculty roles look to trend downward.

Visuals


Sum of Total_Students by Year and Residency
Residency
Foreign
In-state
Out-of-state
30K
20K
10K
0K
Sum of Total_Students
2019
2020
2021
2022
2023
Year


Sum of Total_Degrees by Year and Program
Program
Business
Computer Science
Education
Engineering
Health Sciences
2023
2022
2021
2020
2019
Year
0
200
400
600
800
Sum of Total_Degrees

Sum of Avg_Percentage by Year and Value_Type



Sum of Total_Staff by Year and Role