



# Exploring 10 MSBA Programs



Group 10  
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# ERD

- Relationships

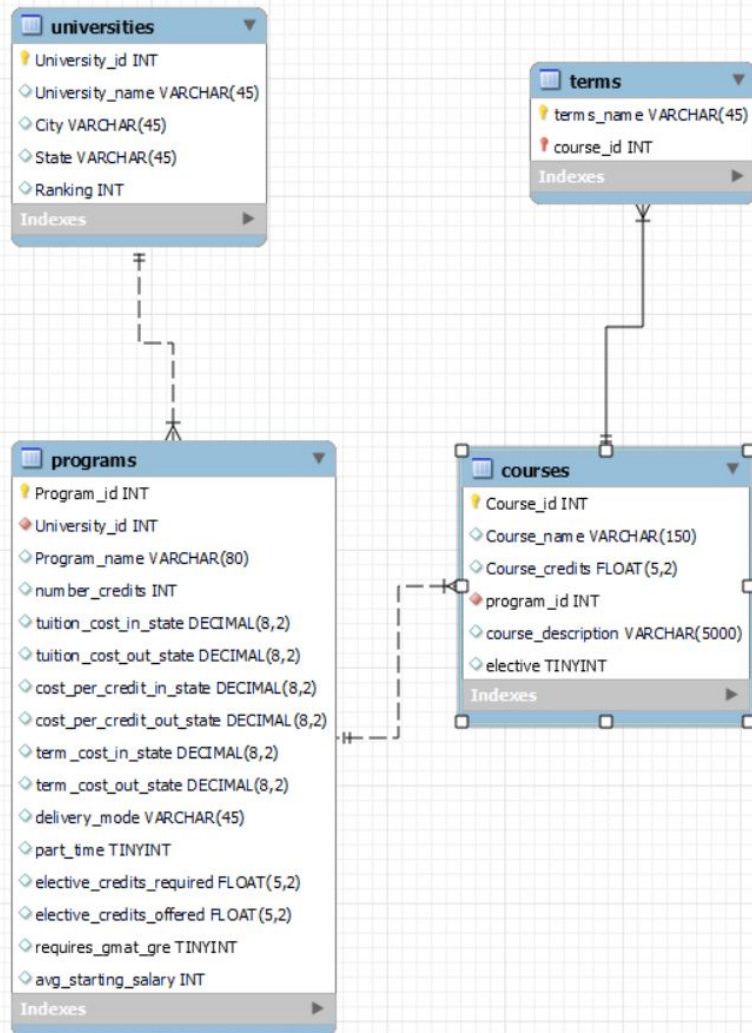
- Universities → Programs → Courses → Terms

- Cardinality

- One to many parent to child
- One to one child to parent

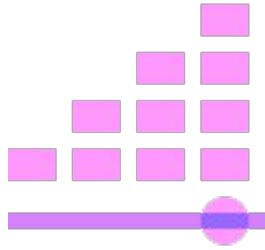
- Constraints

- One fk per child
- Primary key and fk not null, everything else nullable



# 1) Courses Offered Per Program

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**58**

**Maximum**

**\*\*Fordham and  
Suffolk**



**13**

**Minimum**

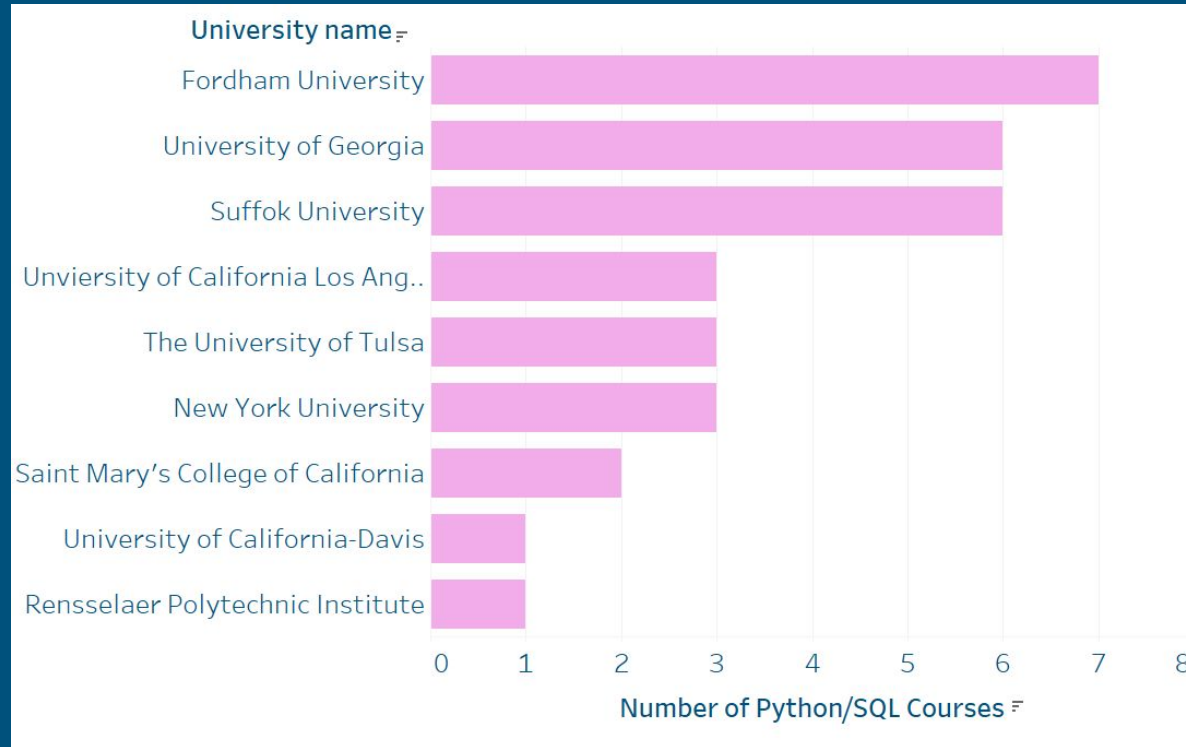
**\*\*MSU and Saint  
Mary's**



**27**

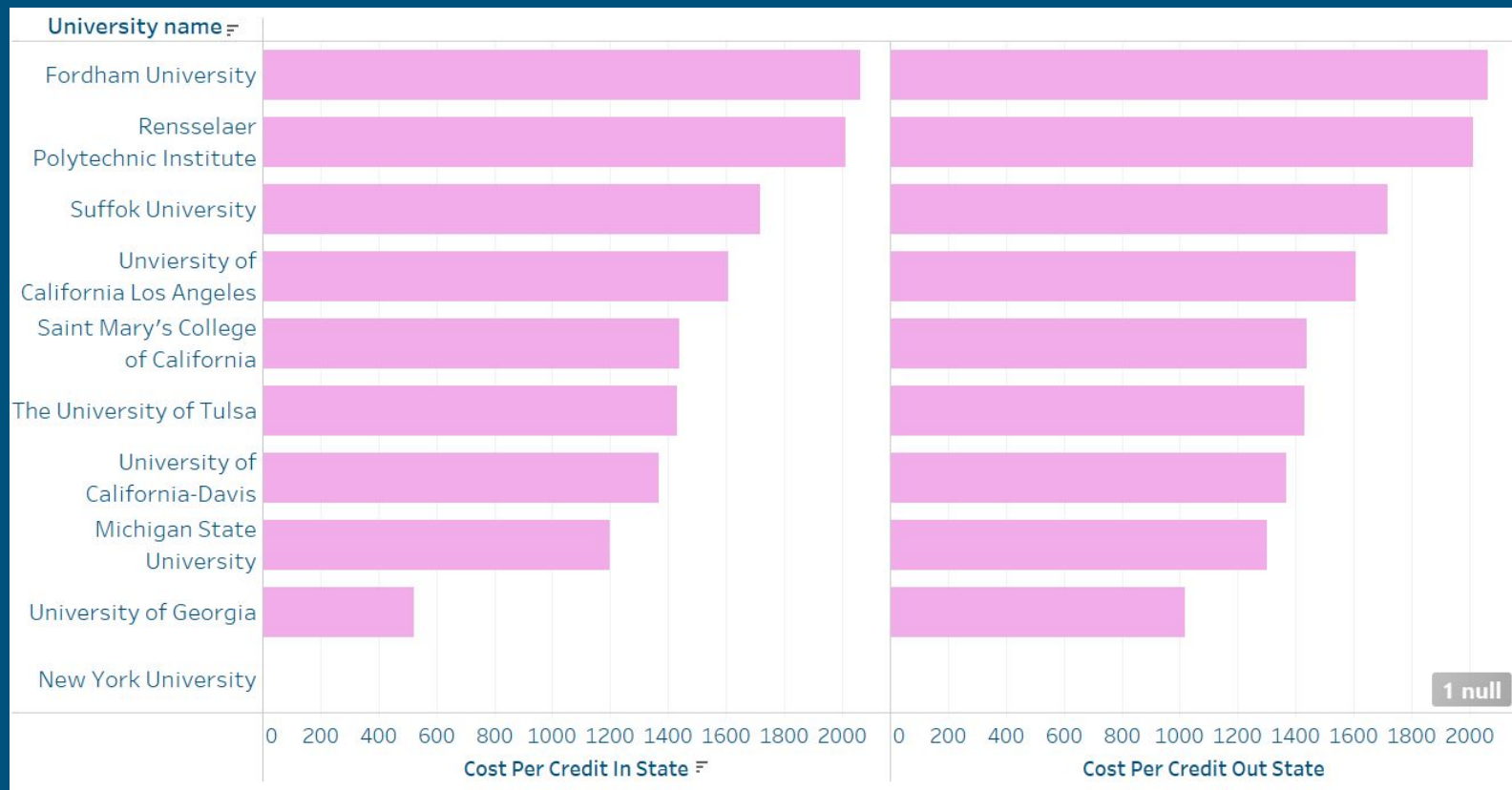
**Average**

## 2) Schools Offering Courses in SQL or Python

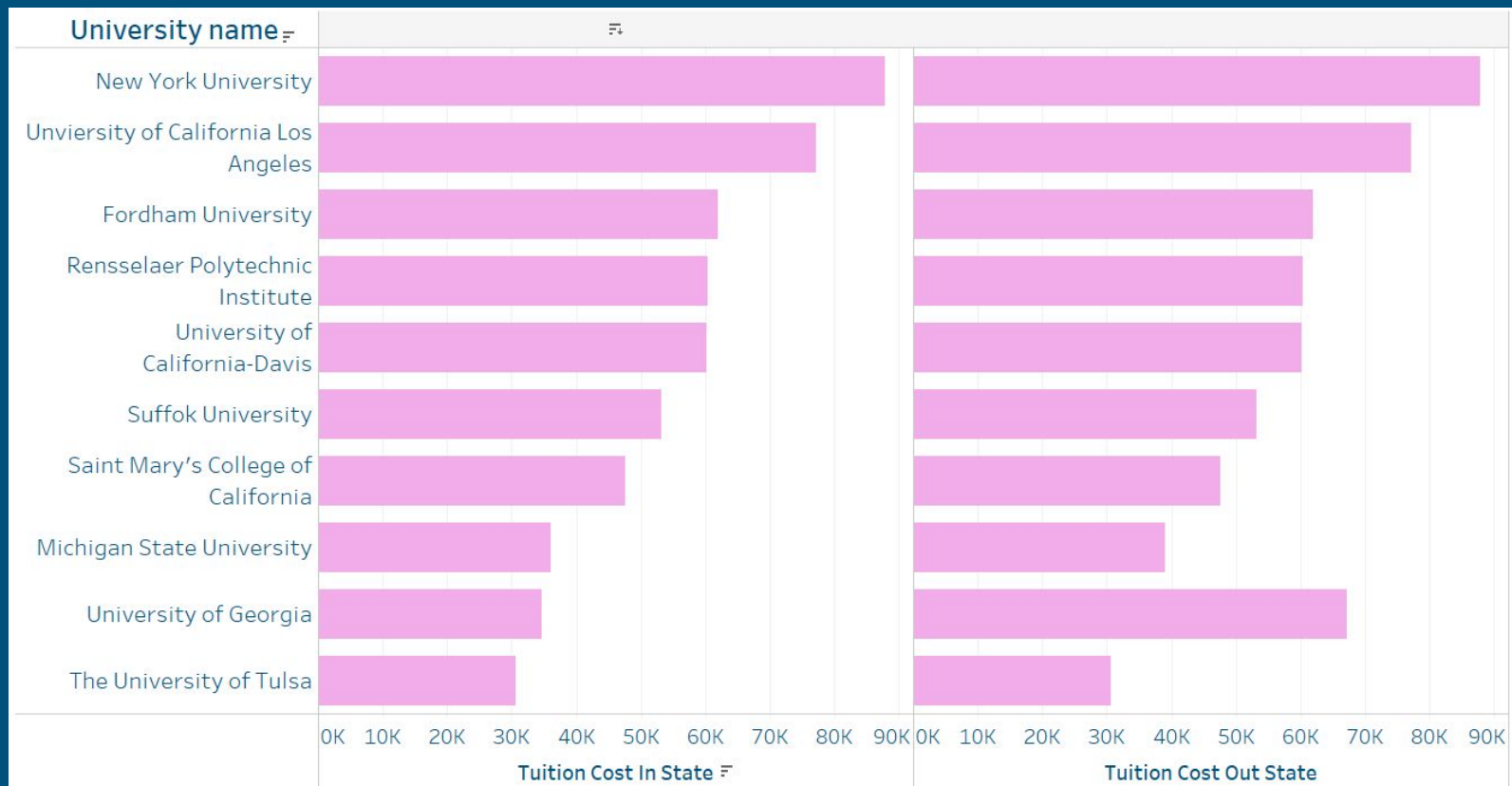


- 9 of 10 Programs offer courses in SQL or Python
- 3.55 average across 9 schools
- More courses may offer SQL/Python, just was not in course description

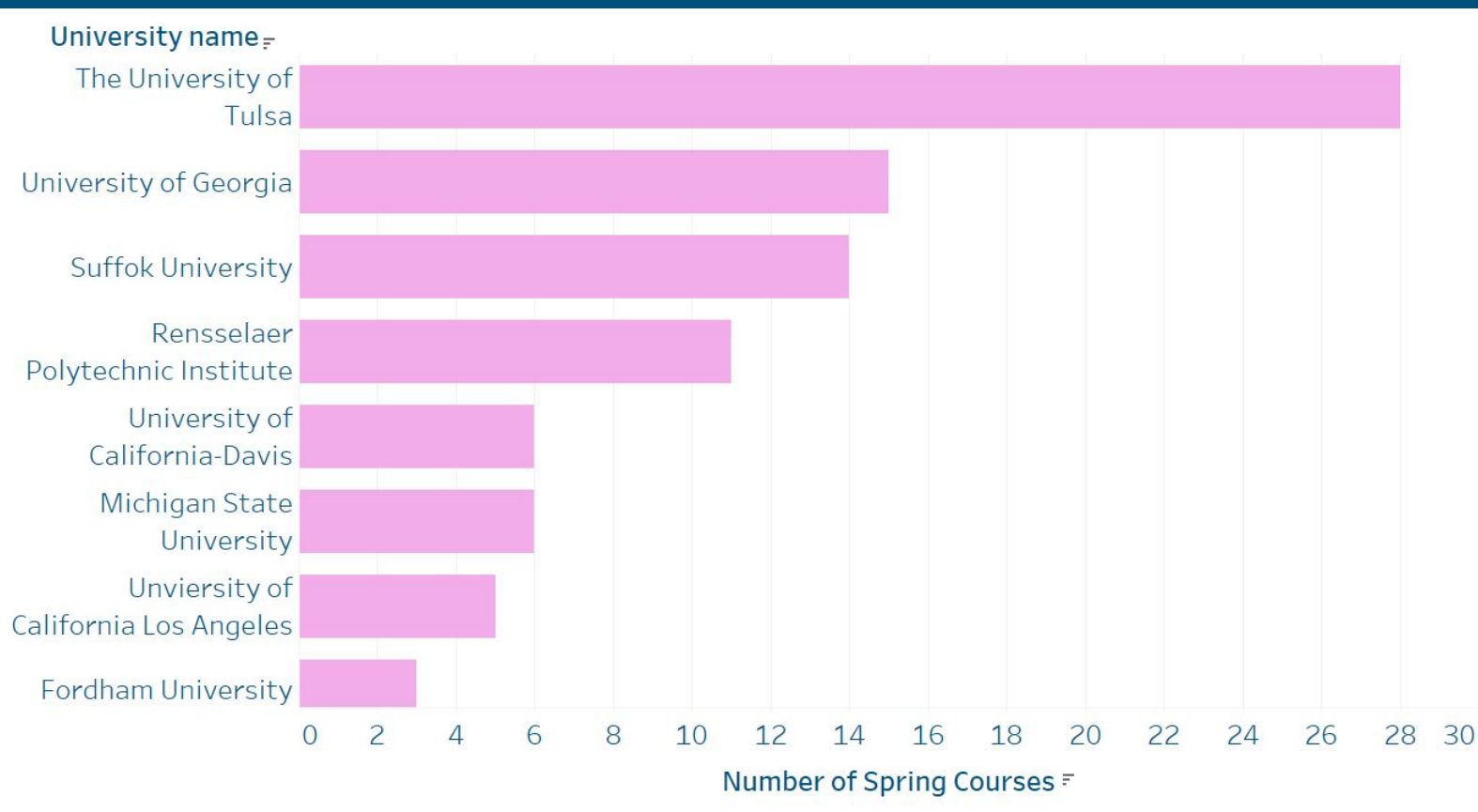
### 3) University Cost per Credit, In and Out of State



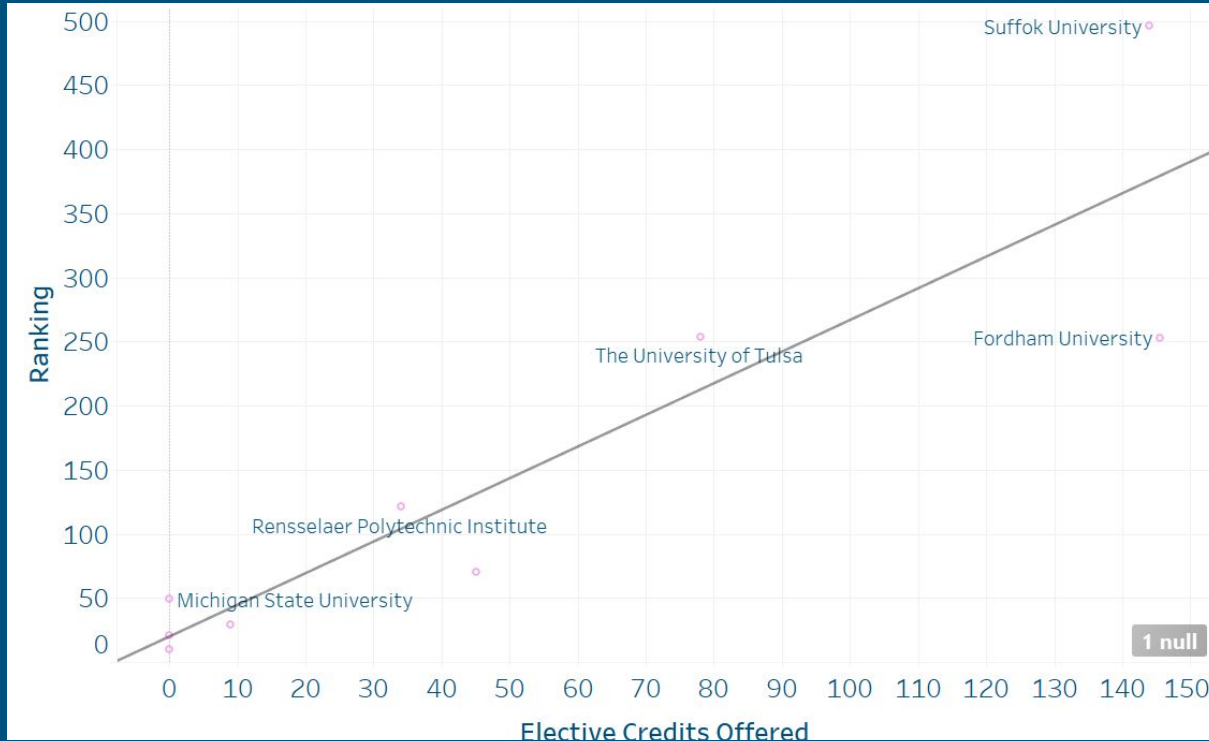
### 3) University Total Tuition Cost, In and Out of State



## 4) Three Credit Courses Offered in Spring



## 5) Electives Offered vs University Ranking

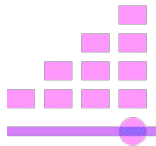


- Suffolk University (496) is worst ranked out of all universities offering Electives
- Ranking on average suffers with more electives offered
- P value=0.0008, r squared 0.8



# Extra Credit: Salary and GMAT Information

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**131,000**

Highest Average  
Annual Salary



**82,000**

Lowest Average  
Annual Salary



**108,993**

Average Annual Salary  
Across Schools



**5 out of 8**

Schools reported  
requiring a GMAT score

# Issues

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## Data Issues in Courses Table

- Had to find and replace incorrect characters



## Calculating Costs

- Tuition or total costs
- Per credit not always available



## Terms for Courses

- NYU runs on modules not terms
- Not all courses had terms specified



# Questions & Answers



# Full Table of Course Names with Python or SQL

University name	Course name
Fordham University	BYGB 7973: Database Management
	BYGB 7978: Web Analytics
	ISGB 79AA: Advanced Python for Financial Programming
	ISGB 79AC: Cybersecurity Analytics for Business
	ISGB 7943: Programming with Python
	QFGB 8911: Financial Markets and Modeling
New York University	QFGB 8955: Computational Finance
	Data Visualization
	Databases for Business Analytics
	Dealing with Data Using Python
Rensselaer Polytechnic Institute	MGMT 6570 - Advanced Data Resource Management
Saint Mary's College of California	OPS 643: Programming for Analytics
	OPS 645: Data Management Technology
Suffok University	ISOM-730: Python for Business Analytics
	ISOM-821: Data Management and Modeling
	ISOM-827: Data Warehouse and Business Intelligence
	ISOM-829: Advanced Data Management Leveraging ETL Tools
	ISOM-845: Business Intelligence, Data Visualization, and Storytelling
	MKT-869: Machine Learning for Marketing With Python
The University of Tulsa	ACCT 7113 Accounting Systems and Business Analytics
	QM 7083 " Business Analytics Practicum
	QM 7402 " Leading and Managing Analytics Organizations
University of California-Davis	BAX 431 - DATA VISUALIZATION
University of Georgia	ECON 7720: Machine Learning and Prediction
	MIST 7600: Data Management and Analytics
	MIST 7757: Data Engineering
	MIST 7770: Business Intelligence and Analytics
	STAT 6365: Modern Statistical Programming
	STAT 6420: Applied Linear Models
Unviersity of California Los Angeles	401: Machine Learning for Decision Making
	402: SQL and Basic Data Management
	405: Data Management