

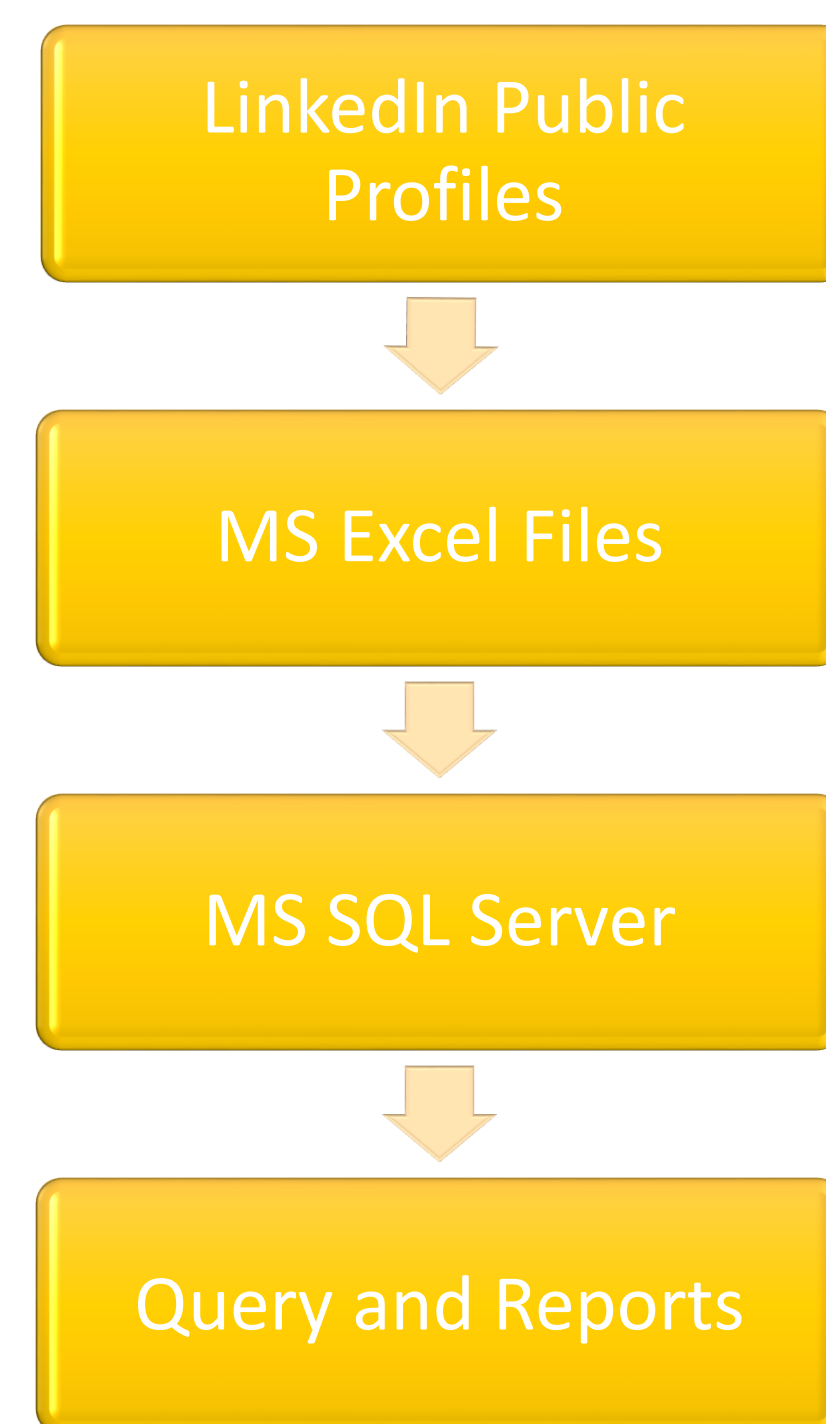
KSU IT Capstone Project - Alumni Database

Purpose:

Create an alumni database for the Information Technology department of Kennesaw State University. This project enables the IT department to:

- Keep track of IT alumni
- Develop stronger relations with IT alumni
- Study career path of IT alumni
- Gather feedback for IT curriculum development.

Project Description:



Project Path

Milestone 1 - Research

- API possibilities
- Database Structure

Milestone 2 - Compile Data

- Manually pull information from LinkedIn
- Create statement to insert into database
- Create database structure

Milestone 3 - Queries

- Write Queries
- Create charts to show results

API Research Findings

- Overview of LinkedIn API:
 - Based on RESTful standard.
 - Uses Oauth 2.0 for authentication
- Technical Information:
 - Certain number of calls per day.
 - Split results into groups.
- Issues:
 - Information returned is limited
 - API is useless unless approval is given by LinkedIn.
- Final Verdict:
 - API was not be of any use for the duration of this project due to the issues listed above.
 - Data was manually searched and entered into excel file for insertion into database.

Summary of Data:

Total Number of Alumni Analyzed	448
Number of graduates pursue Master/PhD Degree:	48/1
Top 5 skills: SQL, Troubleshooting, Microsoft Office, Java, HTML	
Top 5 jobs after graduation: Analyst, Engineer, Developer, Administrator, and Consultant	
Top 5 jobs after graduated 5 years: Engineer, Manager, (Architect, Analyst, and Developer) (tie)	
Top 5 jobs after graduated 10 years: Director, (Analyst, Consultant, Engineer, Manager) (tie)	

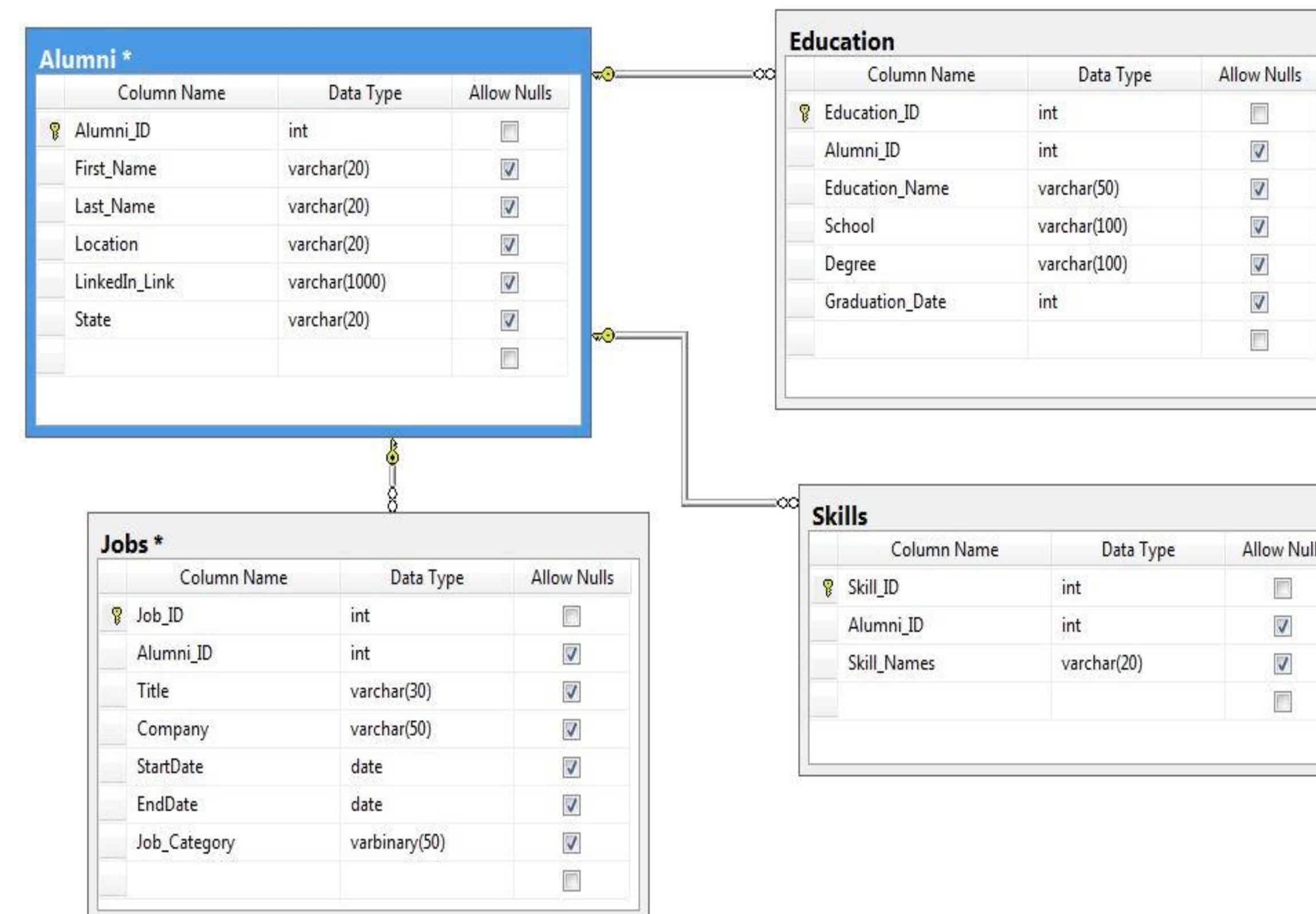
Examples of Data

Graduates per Year		
2003	6	1%
2004	11	2%
2005	10	2%
2006	17	4%
2007	23	5%
2008	15	3%
2009	22	5%
2010	40	9%
2011	31	7%
2012	52	12%
2013	54	12%
2014	95	21%
2015	72	16%

Alumni with Job within 1 year of Graduation Date		243	54%
Tops Jobs within 1 year of Graduation Date			
1	Analyst	49	20%
2	Engineer	43	18%
3	Developer	30	12%
4	Administrator	22	9%
5	Consultant	15	6%
	Other	43	18%

Top 10 Skills			
1	SQL	79	18%
2	Troubleshooting	61	14%
3	Microsoft Office	53	12%
4	Java	53	12%
5	HTML	50	11%
6	Active Directory	47	10%
7	Linux	41	9%
8	C#	37	8%
9	Networking	37	8%
10	Windows 7	29	6%

SQL Diagram



Project Affiliates

Project Owner: Dr. Li Lei; Project Advisor: Dr. Jack Zheng

Project Team: Robert Clavette, Zafermehdi Momin, Kristin Jones, Mack Taylor

