IT Alumni Database Milestone 1 Report IT 4983

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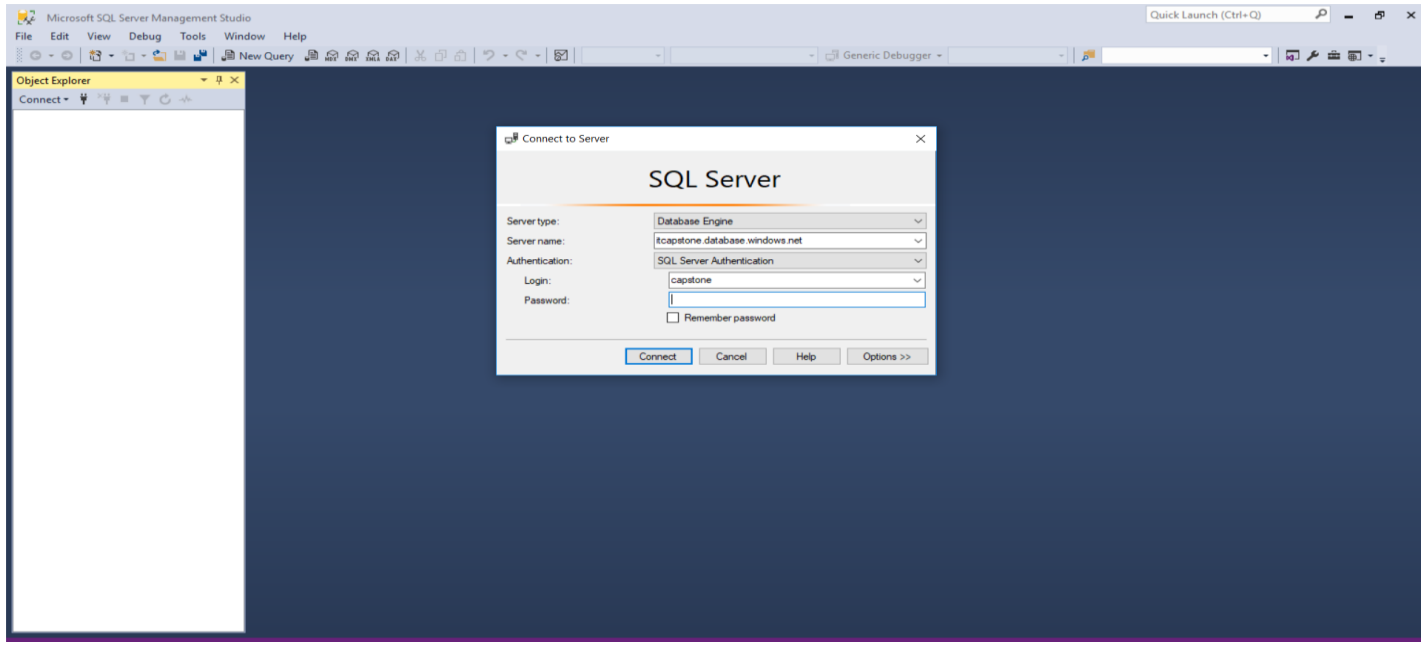
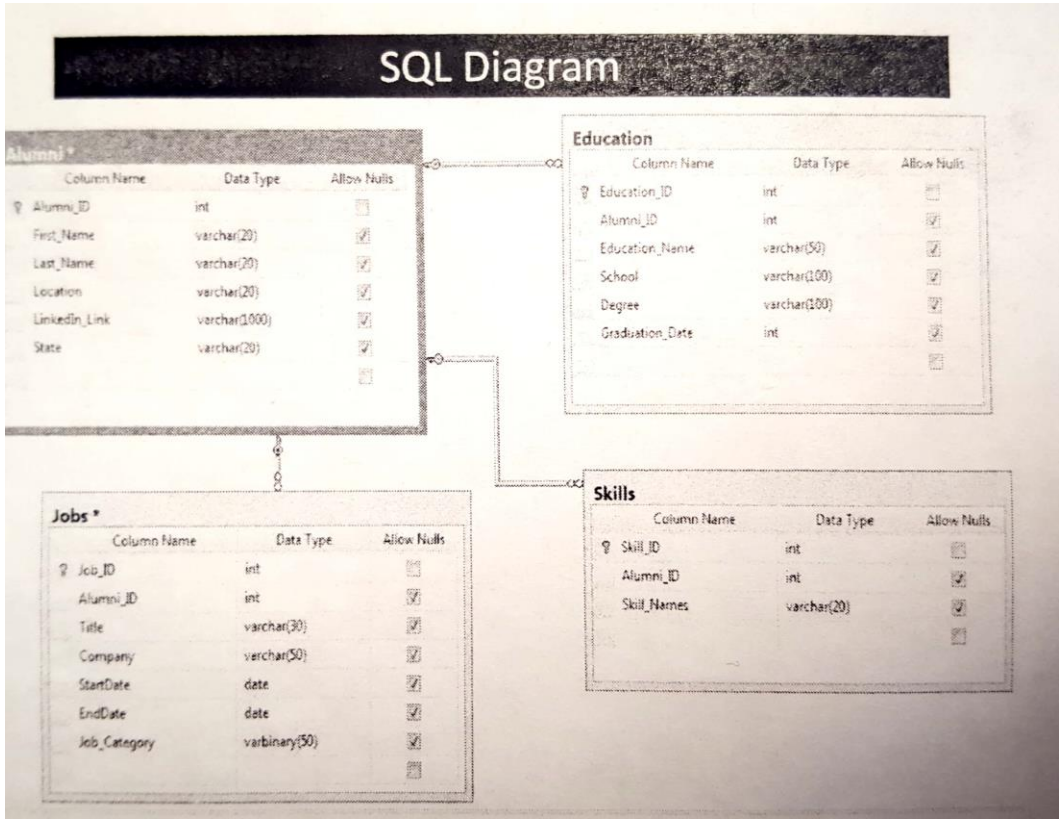
Summary of Milestone 1 tasks

Task	Status
Choose Database Environment	Completed
Install database server	Completed
Design the database	Completed
Create the database schema	Completed
Execute DDL on the database server	Completed
Testing the database	In progress

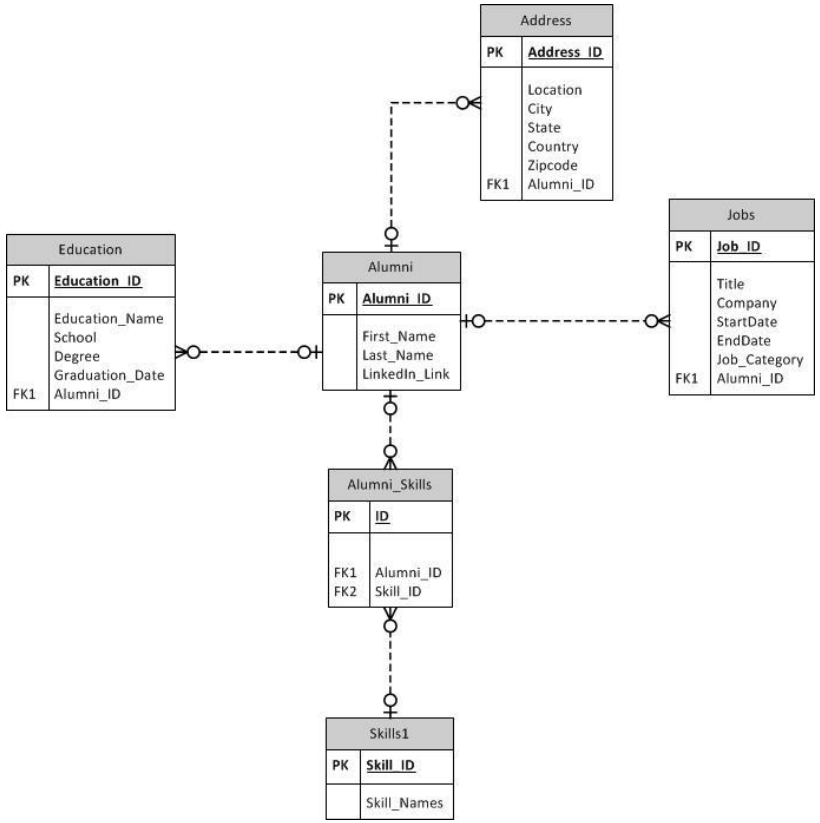


Database Environment: SQL Server/Microsoft Azure

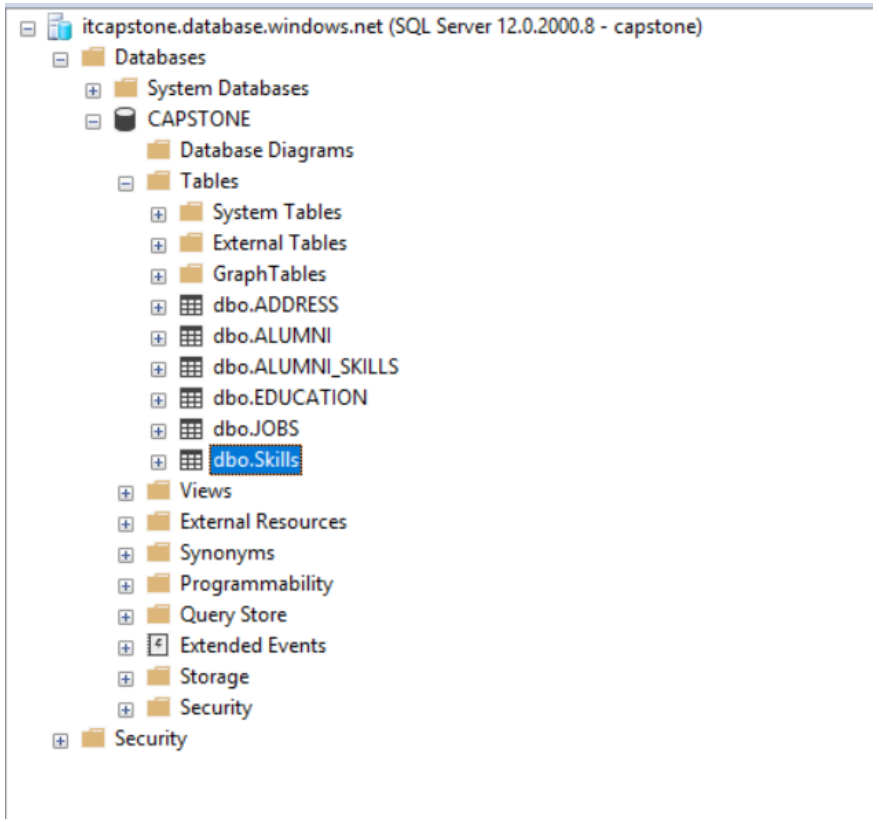
Database Design (original)



Database Design (Normalized)



Database Schema/DDL Executed on Server



What we've learned

- Improved coordination of our schedules to work on the project
- Learned how to use Microsoft Azure to host the database (necessary while we were waiting on the Virtual Machine to be setup)
- Discovered how to install the necessary Python Drivers (next slide)
- Gained more knowledge of SQL, SQL Server, and Python

Python

Install the Python Environment

- Download and install Python 3.6.4
- Download and Install JetBrains PyCharm Community Edition 2017 2017.3.3
- Install the pyodbc and openpyxl drivers
    1. Open an elevated Command prompt.
    2. Input “cd C:\Users\{user}\AppData\Local\Programs\Python\Python36-32\Scripts”
    3. Input “pip install pyodbc”
    4. Input “pip install openpyxl”

Connecting to Alumni Database

- Python Source Code for connecting to the database:
- ```
  import pyodbc
  import openpyxl

  server = 'itcapstone.database.windows.net'

  cnxn = pyodbc.connect('Driver={ODBC Driver 13 for SQL
  Server};Server=tcp:itcapstone.database.windows.net,1433;Database=CAPSTONE;Ui
  apstone@itcapstone;Pwd={password};Encrypt=yes;TrustServerCertificate=no;Conn
  ion Timeout=30;')
  cursor = cnxn.cursor()
  ```
  ```

Python Environment

Plan going Forward

- Continue practicing in Python while the web crawler is being finished
- Make sure everyone knows how to connect to the database using Python
- Learn how to parse files using Python's openpyxl driver
- Begin inserting data from LinkedIn into the database
- Test the database