

IT Alumni Database Milestone 3 Report IT 4983

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Project Summary

Deliverables	Status
Database to store Alumni Information	Completed
Ability to insert data	Completed
Ability to update existing alumni data	Completed

```

def Insert(num):
    AlumniList = []
    #Get alumni information for every file
    for filename in glob.glob('people_info\*json.txt'):
        education_list = []
        job_list = []
        skill_list = []
        with open(filename.title()) as json_file:
            data = json.load(json_file)
            for fName in data['nameUrlId']:
                first_name = fName['firstName']
            for lName in data['nameUrlId']:
                last_name = lName['lastName']
            for alumniId in data['nameUrlId']:
                id = alumniId['id']
            for url in data['nameUrlId']:
                linked_in = url['linkedInUrl']
            for education in data['education']:
                degree = education['degree']
                field = education['field']
                schoolName = education['schoolName']
                graduation_date = education['endDate']
                education_object = Education(degree,field,schoolName,graduation_date)
                duplicate = is_education_duplicate(education_object,education_list)
                if duplicate != True:
                    education_list.append(education_object)
            for position in data['jobHistory']:
                title = position['title']
                company = position['company']
                startDate = position['startDate']
                endDate = position['endDate']
                job_object = Job(title,company,startDate,endDate)
                duplicate = is_job_duplicate(job_object,job_list)
                if duplicate != True:
                    job_list.append(job_object)
            for skill in data['skills']:
                skill_name = skill['skill']
                duplicate = is_skill_duplicate(skill_name,skill_list)

```

 **IDE and Plugin Updates**
PyCharm is ready to [update](#).

Snippet of Insert Script

Explanation of Insert script

- ▶ - A separate JSON file is created for each alumni student that is being looked up on LinkedIn
- ▶ The insert script stores the information in a class, called Alumni. The alumni class for that student is then appended to a list.
- ▶ After each alumni is appended to the alumni list, the insert function begins to insert the data into a database

Snippet of the Update Script

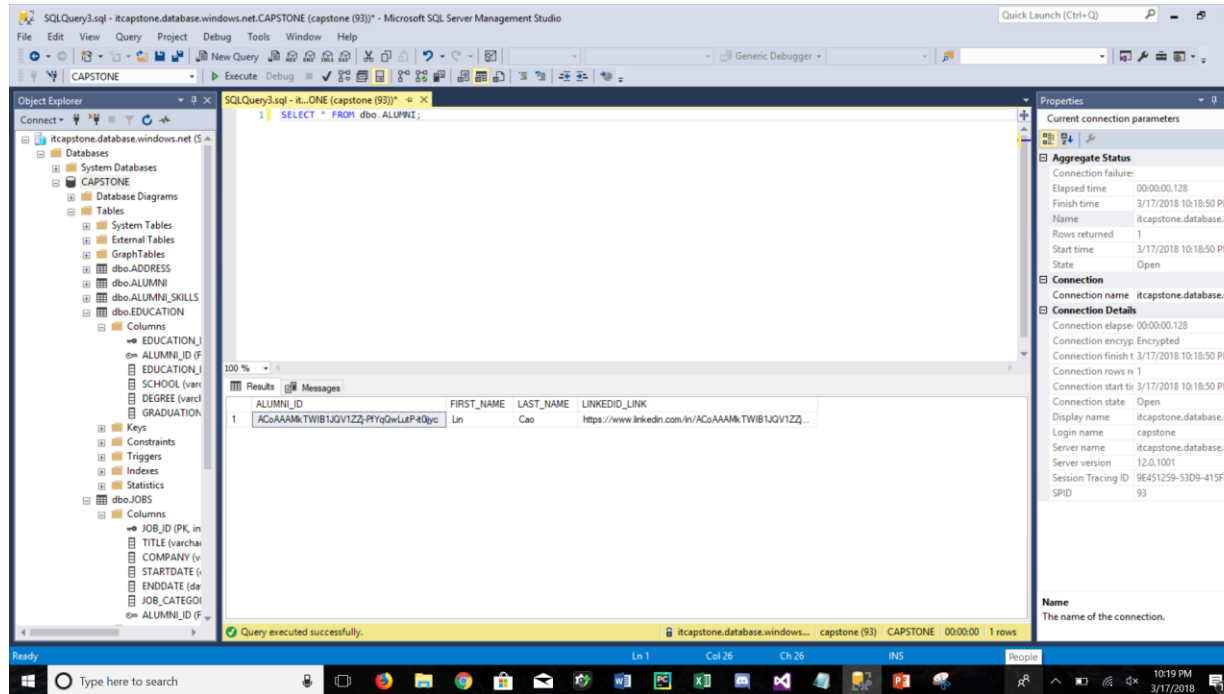
```
def doesEducationExist(education, alumni_id):
    cursor.execute("Select education_name, school, degree, graduation_date FROM dbo.Education WHERE alumni_id = " + "'" + alumni_id + "'")
    education_rows = cursor.fetchall()
    for row in education_rows:
        education_result = row.education_name
        school_result = row.school
        degree_result = row.degree
        graduation_result = str(row.graduation_date)
        graduation_result = graduation_result[0:4]
        if ((education.fieldOfStudy == education_result) and (education.school_name == school_result) and
            (education.degree == degree_result)):
            return True
    return False

def doesSkillExist(skill, alumni_id):
    cursor.execute("Select skill_names FROM dbo.Skills WHERE alumni_id = " + "'" + alumni_id + "'")
    skill_rows = cursor.fetchall()
    for row in skill_rows:
        skill_result = row.skill_names
        if skill == skill_result:
            return True
    return False

def doesJobExist(job, alumni_id):
    cursor.execute("Select title, company, startDate, endDate FROM dbo.Jobs WHERE alumni_id = " + "'" + alumni_id + "'")
    job_rows = cursor.fetchall()
    for row in job_rows:
        title_result = row.title
        company_result = row.company
        if job.title == title_result and job.company == company_result:
            return True
    return False
```

Explanation of Previous snippet of the update script

- ▶ The update script works similarly to the Insert script.
- ▶ However, the methods such as `doesEducationExist()` and `doesJobExist()` checks to make sure the data read from LinkedIn isn't already in the database.
- ▶ Existing data is updated if the row already exists in the database



Data from Alumni table after being inserted from Python