Assignment 5

Jiarong Ye

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Load the data

In [94]: import pandas as pd

from datetime import datetime

```
import pymysql
In [268]: department = pd.read_csv('departments.csv', sep=',')
          department.columns = ['department_name']
          shift = pd.read_csv('shifts.csv', sep=',')
          shift.columns = ['from_time', 'length']
          employees = pd.read_csv('employees.csv', sep=',')
          employees.emptype = employees.emptype.fillna('')
          schedule = pd.read_csv('schedule.csv', sep=',')
          schedule.columns = ['date', 'empid', 'dept', 'start_time', 'shift_length']
Manipulate the data
In [316]: class DataSqlLoader:
              def __init__(self, database):
                  # connect to mysql local server
                  self.db = pymysql.Connect('localhost',
                         'root',
                         database)
                  self.c = db.cursor()
              \# convert the shift and schedule time to `time` format compatible in MySQL
              def convert_time_format(self, time):
                  return datetime.strptime('{}'.format(time), '%I%p').strftime('%H:%M:%S')
              \# convert schedule date to `date` format compatible in MySQL
              def convert_date_format(self, time):
                  return datetime.strptime('{}'.format(time), '%m/%d/%Y').strftime('%Y-%m-%d')
              def creat_tables(self):
                  self.c.execute('''
                          create table if not exists department
                            department_id int auto_increment
                              primary key,
                            department_name varchar(50) not null
                          ''')
                  self.c.execute('''
```

```
shift_id int auto_increment
                        primary key,
                      from_time time not null,
                      length int not null
                     );
                     111)
                 self.c.execute('''
                     create table if not exists schedule
                       schedule_id int auto_increment
                        primary key,
                                  date not null,
                       date
                       empid
                                  varchar(10) not null,
                                 varchar(50) not null,
                       dept
                       start_time time not null,
                      ''')
                 self.c.execute('''
                     create table if not exists employees
                              varchar(10) not null primary key,
                       lastname varchar(20) not null,
                       firstname varchar(20) not null,
                       emptype varchar(3) null,
                       cellphone varchar(20) null,
                       homephone varchar(20) null,
                            varchar(2) not null,
                       constraint employee_empid_uindex
                      unique (empid)
                     );
                 111)
             def insert_into_tables(self, table, table_name):
                 for i in range(len(table)):
                     attributes = '{}'.format(tuple(table.columns.tolist())).replace("'","")
                     query = "insert into {} {} values {};".format(
                        table_name, attributes, tuple(table.iloc[i,:].values))
                     query = query.replace("(none)","")
                     query = query.replace(r",)",")")
                     # print(query)
                     try:
                        c.execute(query)
                        db.commit()
                     except Exception as e:
                        print(e)
             def close(self):
                 self.db.close()
In [317]: dsl = DataSqlLoader('cs431_project')
         dsl.creat_tables()
```

create table if not exists shift

```
schedule['start_time'] = list(map(lambda x: dsl.convert_time_format(x),
                                            schedule['start_time']))
          shift['from_time'] = list(map(lambda x: dsl.convert_time_format(x),
                                        shift['from_time']))
          schedule['date'] = list(map(lambda x: dsl.convert_date_format(x),
                                      schedule['date']))
          dsl.insert_into_tables(department, 'department')
          dsl.insert_into_tables(shift, 'shift')
          dsl.insert_into_tables(schedule, 'schedule')
          dsl.insert_into_tables(employees, 'employees')
SQL Query
In []: select e.lastname as LAST, e.firstname as FIRST, e.cellphone as CELL,
               s.date as DATE, d.department_name as DEPT,
               date_format(s.start_time, '%I%p') as START, s.shift_length as SHIFT_LENGTH
        from department as d, employees as e, schedule as s
        where s.dept=d.department_name
        and s.empid=e.empid
        order by LAST, DATE, SHIFT_LENGTH asc, DEPT desc limit 50;
display results
In [315]: query = '''
              select e.lastname as LAST, e.firstname as FIRST, e.cellphone as CELL,
                 s.date as DATE, d.department_name as DEPT,
                 date_format(s.start_time, '%I%p') as START, s.shift_length as SHIFT_LENGTH
          from department as d, employees as e, schedule as s
          where s.dept=d.department_name
          and s.empid=e.empid
          order by LAST, DATE, START, SHIFT_LENGTH asc, DEPT desc limit 50;
          df = pd.read_sql(query, dsl.db)
          #print(df.to_latex())
```

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46 Catanzaro Imelda (220)3748-1866 2018-09-24 PEDIATRICS 07AM	8
47 Catanzaro Imelda (220)3748-1866 2018-09-30 ONCOLOGY 07PM	12
48 Catanzaro Imelda (220)3748-1866 2018-09-30 EMERGENCY 07PM	12
49 Catanzaro Imelda (220)3748-1866 2018-10-01 MATERNITY 03PM	8