Assignment 6

Jiarong Ye

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Load the data

```
In [1]: import pandas as pd
        from datetime import datetime
        import pymysql
In [2]: 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 [5]: class DataSqlLoader:
            def __init__(self, database):
                # connect to mysql local server
                self.db = pymysql.Connect(
                    host='localhost',
                    port=3308,
                    user='root',
                    passwd='',
                    db=database)
                self.c = self.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
           );
            111)
    self.c.execute('''
        create table if not exists shift
         shift_id int auto_increment
           primary key,
         from_time time not null,
         length int not null
       );
        ''')
   self.c.execute('''
       create table if not exists schedule
         schedule_id int auto_increment
           primary key,
                                not null,
         empid
                      varchar(10) not null,
                     varchar(50) not null,
         dept
         start_time time
                              not null,
         shift_length int not null
       );
        ''')
   self.c.execute('''
        create table if not exists employees
         empid
                  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)
    self.c.execute('''
        create table if not exists department_managers
           dept_name varchar(20),
           manager varchar(30)
       );
    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:
                        self.c.execute(query)
                        self.db.commit()
                    except Exception as e:
                        print(e)
            def close(self):
                self.db.close()
In [11]: dsl = DataSqlLoader('cs431_project')
         dsl.creat_tables()
         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
show tables
    In [7]: query = 'show tables;'
    tables = pd.read_sql(query, dsl.db)
    tables
   Out[7]:
              Tables_in_cs431_project
    0
                   department
    1
          department_managers
    2
                    employees
    3
                     schedule
    4
                        shift
   describe tables
    In [14]: for table in tables.values:
    query = 'describe {};'.format(table[0])
    df = pd.read_sql(query, dsl.db)
    print(df)
    print('\n')
```

Field Type Null Key Default Extra

0 department_id int(11) NO PRI None auto_increment
1 department_name varchar(50) NO None

Field Type Null Key Default Extra

0 dept_name varchar(20) YES None

1 manager varchar(30) YES None

Field Type Null Key Default Extra empid varchar(10) PRI 0 NO None 1 lastname varchar(20) None NO 2 firstname varchar(20) NO None 3 None emptype varchar(3) YES 4 cellphone varchar(20) YES None homephone varchar(20) YES None 6 varchar(2) None ftpt NO

Fi	eld Ty	pe Null Key	Defau	lt]	Extra
0	schedule_id	int(11)	NO	PRI	None	auto_increment
1	date	date	NO		None	
2	empid	varchar(10)	NO		None	
3	dept	varchar(50)	NO		None	
4	start_time	time	NO		None	
5	shift_length	int(11)	NO		None	

Field Type Null Key Default Extra

0 shift_id int(11) NO PRI None auto_increment

1 from_time time NO None

2 length int(11) NO None

1. GENERATE THE FOLLOWING REPORT LISTING ALL EMPLOYEES WHO ARE "OVERBOOKED" BY BEING SCHEDULED MORE THAN ONCE IN A DAY

```
In [13]: query = '''
             SELECT a.empid, a.lastname, a.firstname, a.date AS Overbooked_Date,
                date_format(a.start_time, '%I%p') AS sfrom, a.dept_name, a.manager
                 FROM
                 (SELECT s.empid, e.lastname, e.firstname,
                   s.date, s.start_time, d.dept_name, d.manager
                 FROM employees AS e, schedule AS s, department_managers AS d
                 WHERE e.empid=s.empid
                 and d.dept_name=s.dept) AS a
             INNER JOIN
                 (SELECT empid, date, start_time FROM schedule
                 GROUP BY empid, date
                   HAVING count(*) >1) AS b
             ON (a.empid, a.date)=(b.empid, b.date)
             ORDER BY a.empid, a.date, a.start_time;
                 1.1.1
        df = pd.read_sql(query, dsl.db)
```

	empid	lastname	firstname	Overbooked_Date	sfrom	dept_name	manager
0	853537	Zaragoza	Manie	2018-09-27	07AM	ONCOLOGY	Junita Loranger
1	853537	Zaragoza	Manie	2018-09-27	11PM	PEDIATRICS	Remona Locke
2	853537	Zaragoza	Manie	2018-10-04	07AM	INTENSIVE CARE	Colby Witham
3	853537	Zaragoza	Manie	2018-10-04	03PM	PEDIATRICS	Remona Locke
4	853537	Zaragoza	Manie	2018-10-05	07AM	INTENSIVE CARE	Colby Witham
5	853537	Zaragoza	Manie	2018-10-05	03PM	PEDIATRICS	Remona Locke
6	854480	Locke	Remona	2018-09-29	07PM	EMERGENCY	Oralia Swallow
7	854480	Locke	Remona	2018-09-29	07PM	INTENSIVE CARE	Colby Witham
8	854480	Locke	Remona	2018-10-04	03PM	EMERGENCY	Oralia Swallow
9	854480	Locke	Remona	2018-10-04	03PM	SURGERY	Nadene Harwell
10	854480	Locke	Remona	2018-10-05	07AM	CARDIOLOGY	Marylin Mumaw
11	854480	Locke	Remona	2018-10-05	07AM	SURGERY	Nadene Harwell
12	856661	Rabb	Stephan	2018-09-24	11PM	INTENSIVE CARE	Colby Witham
13	856661	Rabb	Stephan	2018-09-24	11PM	ONCOLOGY	Junita Loranger
14	857230	Не	Kimiko	2018-10-05	03PM	INTENSIVE CARE	Colby Witham
15	857230	Не	Kimiko	2018-10-05	11PM	SURGERY	Nadene Harwell
16	859272	Netter	Almeda	2018-10-03	07AM	ONCOLOGY	Junita Loranger
17	859272	Netter	Almeda	2018-10-03	07AM	INTENSIVE CARE	Colby Witham
18	864272	Catanzaro	Imelda	2018-09-30	07PM	EMERGENCY	Oralia Swallow
19	864272	Catanzaro	Imelda	2018-09-30	07PM	ONCOLOGY	Junita Loranger
20	864272	Catanzaro	Imelda	2018-10-02	07AM	EMERGENCY	Oralia Swallow
21	864272	Catanzaro	Imelda	2018-10-02	03PM	SURGERY	Nadene Harwell
22	864272	Catanzaro	Imelda	2018-10-02	11PM	EMERGENCY	Oralia Swallow
23	864425	Witham	Colby	2018-09-24	03PM	ONCOLOGY	Junita Loranger
24	864425	Witham	Colby	2018-09-24	03PM	SURGERY	Nadene Harwell
25	864425	Witham	Colby	2018-09-25	03PM	CARDIOLOGY	Marylin Mumaw
26	864425	Witham	Colby	2018-09-25	11PM	INTENSIVE CARE	Colby Witham
27	864425	Witham	Colby	2018-10-03	07AM	SURGERY	Nadene Harwell
28	864425	Witham	Colby	2018-10-03	07AM	MATERNITY	Carmel Mersch
29	868513	Mcclelland	Barton	2018-09-29	07AM	ONCOLOGY	Junita Loranger
30	868513	Mcclelland	Barton	2018-09-29	07PM	EMERGENCY	Oralia Swallow
31	868513	Mcclelland	Barton	2018-09-29	07PM	INTENSIVE CARE	Colby Witham
32	868513	Mcclelland	Barton	2018-10-05	03PM	EMERGENCY	Oralia Swallow
33	868513	Mcclelland	Barton	2018-10-05	11PM	SURGERY	Nadene Harwell
34	876713	Concannon	Jeannette	2018-10-01	03PM	MATERNITY	Carmel Mersch
35	876713	Concannon	Jeannette	2018-10-01	11PM	EMERGENCY	Oralia Swallow
36	876713	Concannon	Jeannette	2018-10-05	07AM	PEDIATRICS	Remona Locke
37	876713	Concannon	Jeannette	2018-10-05	11PM	PEDIATRICS	Remona Locke
38	878397	Whitmarsh	Mikel	2018-09-24	11PM	RADIOLOGY	Pamella Deines
39	878397	Whitmarsh	Mikel	2018-09-24	11PM	RADIOLOGY	Pamella Deines
40	881626	Sisk	Ernesto	2018-09-28	07AM	RADIOLOGY	Pamella Deines
41	881626	Sisk	Ernesto	2018-09-28	11PM	EMERGENCY	Oralia Swallow
42	883069	Deines	Pamella	2018-09-26	11PM	EMERGENCY	Oralia Swallow
43	883069	Deines	Pamella	2018-09-26	11PM	SURGERY	Nadene Harwell
44	883069	Deines	Pamella	2018-09-28	07AM	ONCOLOGY	Junita Loranger
45	883069	Deines	Pamella	2018-09-28	07AM	PEDIATRICS	Remona Locke
46	883069	Deines	Pamella	2018-09-30	07AM	SURGERY	Nadene Harwell
47	883069	Deines	Pamella	2018-09-30	07PM	MATERNITY	Carmel Mersch
48	883367	Clyburn	Jeffry	2018-09-27	03PM	RADIOLOGY	Pamella Deines
49	883367	Clyburn	Jeffry	2018-09-27	11PM	SURGERY	Nadene Harwell

	empid	lastname	firstname	Overbooked_Date	sfrom	dept_name	manager
50	883367	Clyburn	Jeffry	2018-10-01	07AM	RADIOLOGY	Pamella Deines
51	883367	Clyburn	Jeffry	2018-10-01	07AM 03PM	RADIOLOGY	Pamella Deines
52	883367		Jeffry	2018-10-01	031 M 03PM	MATERNITY	Carmel Mersch
		Clyburn	-				
53	883367	Clyburn	Jeffry	2018-10-01	11PM	SURGERY	Nadene Harwell
54	886190	Ault	Rosendo	2018-09-25	03PM	PEDIATRICS	Remona Locke
55	886190	Ault	Rosendo	2018-09-25	03PM	ONCOLOGY	Junita Loranger
56	886190	Ault	Rosendo	2018-10-04	03PM	EMERGENCY	Oralia Swallow
57	886190	Ault	Rosendo	2018-10-04	11PM	RADIOLOGY	Pamella Deines
58	891046	Hessler	Latina	2018-10-05	07AM	INTENSIVE CARE	Colby Witham
59	891046	Hessler	Latina	2018-10-05	11PM	PEDIATRICS	Remona Locke
60	898057	Blagg	Lorenzo	2018-10-05	07AM	ONCOLOGY	Junita Loranger
61	898057	Blagg	Lorenzo	2018-10-05	03PM	RADIOLOGY	Pamella Deines
62	900486	Ober	Shalanda	2018-09-30	07PM	CARDIOLOGY	Marylin Mumaw
63	900486	Ober	Shalanda	2018-09-30	07PM	CARDIOLOGY	Marylin Mumaw
64	913891	Warn	Loraine	2018-09-27	07AM	INTENSIVE CARE	Colby Witham
65	913891	Warn	Loraine	2018-09-27	03PM	RADIOLOGY	Pamella Deines
66	919675	Cermak	Vern	2018-09-25	03PM	EMERGENCY	Oralia Swallow
67	919675	Cermak	Vern	2018-09-25	11PM	ONCOLOGY	Junita Loranger
68	919675	Cermak	Vern	2018-09-26	07AM	EMERGENCY	Oralia Swallow
69	919675	Cermak	Vern	2018-09-26	11PM	CARDIOLOGY	Marylin Mumaw
70	919675	Cermak	Vern	2018-09-27	03PM	RADIOLOGY	Pamella Deines
71	919675	Cermak	Vern	2018-09-27	03PM	CARDIOLOGY	Marylin Mumaw
72	919675	Cermak	Vern	2018-09-30	07AM	MATERNITY	Carmel Mersch
73	919675	Cermak	Vern	2018-09-30	07AM	EMERGENCY	Oralia Swallow
74	919675	Cermak	Vern	2018-09-30	07PM	ONCOLOGY	Junita Loranger
75	919675	Cermak	Vern	2018-10-07	07PM	EMERGENCY	Oralia Swallow
76	919675	Cermak	Vern	2018-10-07	07PM	EMERGENCY	Oralia Swallow
77	919847	Gabel	Huong	2018-09-25	03PM	MATERNITY	Carmel Mersch
78	919847	Gabel	Huong	2018-09-25	11PM	ONCOLOGY	Junita Loranger
79	919847	Gabel	Huong	2018-10-01	07AM	EMERGENCY	Oralia Swallow
80	919847	Gabel	Huong	2018-10-01	11PM	ONCOLOGY	Junita Loranger
81	919847	Gabel	Huong	2018-10-06	07AM	SURGERY	Nadene Harwell
82	919847	Gabel	Huong	2018-10-06	07AM	CARDIOLOGY	Marylin Mumaw
83	919847	Gabel	Huong	2018-10-06	07PM	MATERNITY	Carmel Mersch
84	921331	Beaver	Viva	2018-09-25	07AM	EMERGENCY	Oralia Swallow
85	921331	Beaver	Viva	2018-09-25	03PM	MATERNITY	Carmel Mersch
86	921331	Beaver	Viva	2018-09-26	07AM	ONCOLOGY	Junita Loranger
87	921331	Beaver	Viva	2018-09-26	07AM	ONCOLOGY	Junita Loranger
88	921331	Beaver	Viva	2018-09-26	07AM	INTENSIVE CARE	Colby Witham
89	921331	Beaver	Viva	2018-10-07	07PM	EMERGENCY	Oralia Swallow
90	921331	Beaver	Viva	2018-10-07	07PM	PEDIATRICS	Remona Locke
91	921331	Beaver	Viva	2018-10-07	07PM	MATERNITY	Carmel Mersch
92	929086	Noonkester	Asa	2018-09-25	07AM	INTENSIVE CARE	Colby Witham
93	929086	Noonkester	Asa	2018-09-25	07AM	MATERNITY	Carmel Mersch
94	929086	Noonkester	Asa	2018-09-27	07AM	CARDIOLOGY	Marylin Mumaw
95	929086	Noonkester	Asa	2018-09-27	03PM	MATERNITY	Carmel Mersch
96	929086	Noonkester	Asa	2018-09-28	07AM	RADIOLOGY	Pamella Deines
97	929086	Noonkester	Asa	2018-09-28	07AM	RADIOLOGY	Pamella Deines
98	937181	Hauck	Kenton	2018-09-27	07AM	PEDIATRICS	Remona Locke
99	937181	Hauck	Kenton	2018-09-27	03PM	MATERNITY	Carmel Mersch

	empid	lastname	firstname	Overbooked_Date	sfrom	dept_name	manager
100	937181	Hauck	Kenton	2018-10-02	03PM	CARDIOLOGY	Marylin Mumaw
101	937181	Hauck	Kenton	2018-10-02	11PM	PEDIATRICS	Remona Locke
102	939148	Liberto	Delta	2018-09-24	07AM	EMERGENCY	Oralia Swallow
103	939148	Liberto	Delta	2018-09-24	07AM	EMERGENCY	Oralia Swallow
104	939148	Liberto	Delta	2018-09-26	07AM	SURGERY	Nadene Harwell
105	939148	Liberto	Delta	2018-09-26	11PM	EMERGENCY	Oralia Swallow
106	939148	Liberto	Delta	2018-10-02	07AM	MATERNITY	Carmel Mersch
107	939148	Liberto	Delta	2018-10-02	07AM	INTENSIVE CARE	Colby Witham
108	940824	Loranger	Junita	2018-09-25	11PM	MATERNITY	Carmel Mersch
109	940824	Loranger	Junita	2018-09-25	11PM	ONCOLOGY	Junita Loranger
110	940824	Loranger	Junita	2018-10-02	07AM	MATERNITY	Carmel Mersch
111	940824	Loranger	Junita	2018-10-02	03PM	RADIOLOGY	Pamella Deines
112	940824	Loranger	Junita	2018-10-03	11PM	EMERGENCY	Oralia Swallow
113	940824	Loranger	Junita	2018-10-03	11PM	MATERNITY	Carmel Mersch
114	940824	Loranger	Junita	2018-10-06	07PM	INTENSIVE CARE	Colby Witham
115	940824	Loranger	Junita	2018-10-06	07PM	MATERNITY	Carmel Mersch
116	941663	Nalley	Charlott	2018-09-29	07AM	SURGERY	Nadene Harwell
117	941663	Nalley	Charlott	2018-09-29	07AM	ONCOLOGY	Junita Loranger
118	941663	Nalley	Charlott	2018-09-29	07PM	RADIOLOGY	Pamella Deines
119	941663	Nalley	Charlott	2018-10-05	03PM	ONCOLOGY	Junita Loranger
120	941663	Nalley	Charlott	2018-10-05	11PM	PEDIATRICS	Remona Locke
121	943023	Hinze	Mark	2018-09-28	07AM	PEDIATRICS	Remona Locke
122	943023	Hinze	Mark	2018-09-28	03PM	ONCOLOGY	Junita Loranger
123	943023	Hinze	Mark	2018-10-05	07AM	INTENSIVE CARE	Colby Witham
124	943023	Hinze	Mark	2018-10-05	11PM	MATERNITY	Carmel Mersch
125	943023	Hinze	Mark	2018-10-07	07AM	ONCOLOGY	Junita Loranger
126	943023	Hinze	Mark	2018-10-07	07AM	EMERGENCY	Oralia Swallow
127	945520	Crigger	Maudie	2018-10-01	07AM	SURGERY	Nadene Harwell
128	945520	Crigger	Maudie	2018-10-01	11PM	RADIOLOGY	Pamella Deines
129	945520	Crigger	Maudie	2018-10-03	07AM	EMERGENCY	Oralia Swallow
130	945520	Crigger	Maudie	2018-10-03	03PM	INTENSIVE CARE	Colby Witham
131	945540	Stager	Roderick	2018-10-04	07AM	ONCOLOGY	Junita Loranger
132	945540	Stager	Roderick	2018-10-04	11PM	CARDIOLOGY	Marylin Mumaw
133	945540	Stager	Roderick	2018-10-07	07AM	EMERGENCY	Oralia Swallow
134	945540	Stager	Roderick	2018-10-07	07PM	PEDIATRICS	Remona Locke
135	948273	Petties	Rachelle	2018-09-28	07AM	EMERGENCY	Oralia Swallow
136	948273	Petties	Rachelle	2018-09-28	07AM	CARDIOLOGY	Marylin Mumaw
137	953807	Quarles	Timmy	2018-10-02	07AM	MATERNITY	Carmel Mersch
138	953807	Quarles	Timmy	2018-10-02	11PM	INTENSIVE CARE	Colby Witham
139	953817	Harwell	Nadene	2018-09-25	03PM	PEDIATRICS	Remona Locke
140	953817	Harwell	Nadene	2018-09-25	11PM	CARDIOLOGY	Marylin Mumaw
141	957335	Mullally	Vennie	2018-09-27	07AM	PEDIATRICS	Remona Locke
142	957335	Mullally	Vennie	2018-09-27	03PM	ONCOLOGY	Junita Loranger
143	957335	Mullally	Vennie	2018-09-29	07AM	INTENSIVE CARE	Colby Witham
144	957335	Mullally	Vennie	2018-09-29	07PM	CARDIOLOGY	Marylin Mumaw
145	957335	Mullally	Vennie	2018-10-01	03PM	RADIOLOGY	Pamella Deines
146	957335	Mullally	Vennie	2018-10-01	11PM	RADIOLOGY	Pamella Deines
147	964932	Harps	Gigi	2018-10-03	03PM	MATERNITY	Carmel Mersch
148	964932	Harps	Gigi	2018-10-03	11PM	ONCOLOGY	Junita Loranger
149	967577	Swallow	Oralia	2018-09-24	07AM	SURGERY	Nadene Harwell

	empid	lastname	firstname	Overbooked_Date	sfrom	dept_name	manager
150	967577	Swallow	Oralia	2018-09-24	03PM	MATERNITY	Carmel Mersch
151	967577	Swallow	Oralia	2018-10-03	07AM	MATERNITY	Carmel Mersch
152	967577	Swallow	Oralia	2018-10-03	11PM	SURGERY	Nadene Harwell
153	967577	Swallow	Oralia	2018-10-07	07AM	ONCOLOGY	Junita Loranger
154	967577	Swallow	Oralia	2018-10-07	07PM	ONCOLOGY	Junita Loranger
155	971559	Mumaw	Marylin	2018-09-30	07AM	ONCOLOGY	Junita Loranger
156	971559	Mumaw	Marylin	2018-09-30	07PM	ONCOLOGY	Junita Loranger
157	979951	Berryman	Sabrina	2018-10-04	03PM	EMERGENCY	Oralia Swallow
158	979951	Berryman	Sabrina	2018-10-04	11PM	INTENSIVE CARE	Colby Witham
159	979951	Berryman	Sabrina	2018-10-04	11PM	ONCOLOGY	Junita Loranger
160	979951	Berryman	Sabrina	2018-10-06	07AM	PEDIATRICS	Remona Locke
161	979951	Berryman	Sabrina	2018-10-06	07AM	MATERNITY	Carmel Mersch
162	979951	Berryman	Sabrina	2018-10-06	07AM	ONCOLOGY	Junita Loranger
163	992463	Goode	Rex	2018-09-25	11PM	ONCOLOGY	Junita Loranger
164	992463	Goode	Rex	2018-09-25	11PM	SURGERY	Nadene Harwell
165	992463	Goode	Rex	2018-09-26	07AM	MATERNITY	Carmel Mersch
166	992463	Goode	Rex	2018-09-26	03PM	MATERNITY	Carmel Mersch
167	995561	Labarre	Virgina	2018-09-24	11PM	EMERGENCY	Oralia Swallow
168	995561	Labarre	Virgina	2018-09-24	11PM	SURGERY	Nadene Harwell
169	995561	Labarre	Virgina	2018-10-01	07AM	INTENSIVE CARE	Colby Witham
170	995561	Labarre	Virgina	2018-10-01	11PM	PEDIATRICS	Remona Locke
171	995636	Pye	Deanna	2018-09-30	07AM	MATERNITY	Carmel Mersch
172	995636	Pye	Deanna	2018-09-30	07AM	EMERGENCY	Oralia Swallow
173	995636	Pye	Deanna	2018-10-01	07AM	CARDIOLOGY	Marylin Mumaw
174	995636	Pye	Deanna	2018-10-01	11PM	RADIOLOGY	Pamella Deines
175	995636	Pye	Deanna	2018-10-05	07AM	INTENSIVE CARE	Colby Witham
176	995636	Pye	Deanna	2018-10-05	11PM	MATERNITY	Carmel Mersch
177	995636	Pye	Deanna	2018-10-07	07PM	RADIOLOGY	Pamella Deines
178	995636	Pye	Deanna	2018-10-07	07PM	INTENSIVE CARE	Colby Witham

2. GENERATE A REPORT OF ALL OF THE FULL TIME PEOPLE WHO ARE WORKING MORE THAN 80 HOURS, AND HOW MUCH OVERTIME THEY ARE SCHEDULED FOR.

df = pd.read_sql(query, dsl.db)

	fullname	scheduled_overtime
0	Vern Cermak	60
1	Deanna Pye	48
2	Jeffry Clyburn	44
3	Remona Locke	36
4	Charlott Nalley	32
5	Manie Zaragoza	32
6	Junita Loranger	24
7	Imelda Catanzaro	20
8	Kenton Hauck	20
9	Asa Noonkester	16
10	Mark Hinze	16
11	Shalanda Ober	16
12	Barton Mcclelland	12
13	Oralia Swallow	8
14	Virgina Labarre	8
15	Marylin Mumaw	4