

First Steps: Initial Setup

Getting Started

Please look in the `README.md` to get started.

SQL Magic

Jupyter notes support the concept of "magics.". Running the cell below provides some information about magics.

```
In [1]: %magic
```

`iPython-sql` is a useful magic for interacting with SQL databases. You can install and make the magic available by installing. The following cell will usually install the package. If the installation fails,

1. Follow the [instructions for Anaconda](#).
2. Use web search with the error messages to see how others have solved the problem.

Contact the TA or professor if you cannot install the package.

```
In [2]: !pip install pymysql
```

Requirement already satisfied: pymysql in /opt/anaconda3/lib/python3.8/site-packages (1.0.2)

```
In [3]: !pip install ipython-sql
```

```
Requirement already satisfied: ipython-sql in /opt/anaconda3/lib/python3.8/site-packages (0.4.0)
Requirement already satisfied: ipython>=1.0 in /opt/anaconda3/lib/python3.8/site-packages (from ipython-sql) (7.22.0)
Requirement already satisfied: sqlalchemy>=0.6.7 in /opt/anaconda3/lib/python3.8/site-packages (from ipython-sql) (1.4.7)
Requirement already satisfied: ipython-genutils>=0.1.0 in /opt/anaconda3/lib/python3.8/site-packages (from ipython-sql) (0.2.0)
Requirement already satisfied: prettytable<1 in /opt/anaconda3/lib/python3.8/site-packages (from ipython-sql) (0.7.2)
Requirement already satisfied: six in /opt/anaconda3/lib/python3.8/site-packages (from ipython-sql) (1.16.0)
Requirement already satisfied: sqlparse in /opt/anaconda3/lib/python3.8/site-packages (from ipython-sql) (0.4.2)
Requirement already satisfied: jedi>=0.16 in /opt/anaconda3/lib/python3.8/site-packages (from ipython>=1.0->ipython-sql) (0.17.2)
Requirement already satisfied: traitlets>=4.2 in /opt/anaconda3/lib/python3.8/site-packages (from ipython>=1.0->ipython-sql) (5.0.5)
Requirement already satisfied: prompt-toolkit!=3.0.0,!=3.0.1,<3.1.0,>=2.0.0 in /opt/anaconda3/lib/python3.8/site-packages (from ipython>=1.0->ipython-sql) (3.0.17)
Requirement already satisfied: pygments in /opt/anaconda3/lib/python3.8/site-packages (from ipython>=1.0->ipython-sql) (2.8.1)
Requirement already satisfied: setuptools>=18.5 in /opt/anaconda3/lib/python3.8/site-packages (from ipython>=1.0->ipython-sql) (52.0.0.post20210125)
Requirement already satisfied: backcall in /opt/anaconda3/lib/python3.8/site-packages (from ipython>=1.0->ipython-sql) (0.2.0)
Requirement already satisfied: pexpect>4.3 in /opt/anaconda3/lib/python3.8/site-packages (from ipython>=1.0->ipython-sql) (4.8.0)
Requirement already satisfied: decorator in /opt/anaconda3/lib/python3.8/site-packages (from ipython>=1.0->ipython-sql) (5.0.6)
Requirement already satisfied: pickleshare in /opt/anaconda3/lib/python3.8/site-packages (from ipython>=1.0->ipython-sql) (0.7.5)
Requirement already satisfied: appnope in /opt/anaconda3/lib/python3.8/site-packages (from ipython>=1.0->ipython-sql) (0.1.2)
Requirement already satisfied: parso<0.8.0,>=0.7.0 in /opt/anaconda3/lib/python3.8/site-packages (from jedi>=0.16->ipython>=1.0->ipython-sql) (0.7.0)
Requirement already satisfied: ptyprocess>=0.5 in /opt/anaconda3/lib/python3.8/site-packages (from pexpect>4.3->ipython>=1.0->ipython-sql) (0.7.0)
Requirement already satisfied: wcwidth in /opt/anaconda3/lib/python3.8/site-packages (from prompt-toolkit!=3.0.0,!=3.0.1,<3.1.0,>=2.0.0->ipython>=1.0->ipython-sql) (0.2.5)
Requirement already satisfied: greenlet!=0.4.17 in /opt/anaconda3/lib/python3.8/site-packages (from sqlalchemy>=0.6.7->ipython-sql) (1.0.0)
```

Now bring the magic into the notebook's environment.

In [4]: `%load_ext sql`

Using the Magic

The first step in using the magic is to connect to your MySQL database server. You need to put your root user name and password in the code before executing the cells below. My values are in the cells for the demo.

```
In [5]: db_user = "root"  
db_password = "980327Lqw"
```

```
In [6]: connection_string_template = "mysql+pymysql://{}:{}@localhost"  
connection_string = connection_string_template.format(db_user=db_user, db_password=db_password)  
connection_string
```

```
Out[6]: 'mysql+pymysql://root:980327Lqw@localhost'
```

```
In [7]: %sql $connection_string
```

The notebook is now connected to the database server.

Initial Data Setup

The first step is to create a database (also known) as a schema in the database server.

```
In [31]: %%sql  
create database if not exists f22_databases;  
select "[]";
```

```
* mysql+pymysql://root:***@localhost  
1 rows affected.  
1 rows affected.
```

```
Out[31]: []  
[]
```

The second step is to set the new database as the default database, and then create your first table.

Be very careful because the script drops the table (deletes the table). You loose any data if you previously used the table.

```
In [35]: %%sql  
use f22_databases;  
select "[";
```

```
* mysql+pymysql://root:***@localhost  
0 rows affected.  
1 rows affected.
```

```
Out[35]: []
```

```
[]
```

```
In [37]: %%sql  
drop table if exists columbia_students;  
select "[";
```

```
* mysql+pymysql://root:***@localhost  
0 rows affected.  
1 rows affected.
```

```
Out[37]: []
```

```
[]
```

There is a [comma separated value](#) file that contains some simulated data created with [Mockaroo](#). I have a paid account on Mockaroo, which means you may not be able to create and download sample data that I am able to create.

We will write a simple Python script to load the data from the file into the database.

```
In [38]: import pymysql
```

```
In [39]: # This create a connection from the notebook environment to the database server.  
# Do not worry about what all the parameters mean.  
#  
# You must have set the values for db_user and db_password above.  
#  
conn = pymysql.connect(  
    host="localhost",  
    port=3306,  
    user=db_user,  
    password=db_password,  
    cursorclass=pymysql.cursors.DictCursor,  
    autocommit=True)
```

```
In [40]: conn
```

```
Out[40]: <pymysql.connections.Connection at 0x7fad6cf72e0>
```

```
In [41]: # Use a simple Python library for CSV files to read the data.  
#  
import csv  
  
new_rows = []  
  
# Open the file for reading and then wrap with a CSV reader class.  
with open('./sample_student_info.csv') as in_text_file:  
    csv_file = csv.DictReader(in_text_file)  
    for r in csv_file:  
        new_rows.append(r)
```

```
In [42]: # Let's look at the data  
new_rows[0:2]
```

```
Out[42]: [ {'student_id': 'd65239a5-d26c-48fc-83e0-9add1cc8e689',  
            'first_name': 'Marne',  
            'middle_name': 'Charil',  
            'last_name': 'Gilbart',  
            'email': 'cgilbart0@slashdot.org',  
            'school_code': 'GS'},  
          {'student_id': 'ac1cd726-5dc0-41f8-91e5-3724e77cc8a3',  
            'first_name': 'Sybyl',  
            'middle_name': 'Brandice',  
            'last_name': 'Hawkey',  
            'email': 'bhawkey1@examiner.com',  
            'school_code': 'CC'}]
```

Columns in relational databases have [types](#). Specific products implementing SQL databases usually have modifications and extensions. For now, we will just treat all of the data as "strings." So, we are going to create the table and its columns. We will use the SQL magic just for the heck of it.

```
In [45]: %%sql
```

```
create table columbia_students
```

```
(  
    guid varchar(256) not NULL,  
    last_name  varchar(128) not null,  
    first_name varchar(128) not null,  
    middle_name varchar(128) null,  
    email      varchar(256) not null,  
    school_code      varchar(8) not null  
);  
select "[]";
```

```
* mysql+pymysql://root:***@localhost  
0 rows affected.  
1 rows affected.
```

Out[45]: []

[]

We can examine the table's structure.

In [46]: %sql describe columbia_students

```
* mysql+pymysql://root:***@localhost  
6 rows affected.
```

Field	Type	Null	Key	Default	Extra
guid	varchar(256)	NO		None	
last_name	varchar(128)	NO		None	
first_name	varchar(128)	NO		None	
middle_name	varchar(128)	YES		None	
email	varchar(256)	NO		None	
school_code	varchar(8)	NO		None	

- The SQL operation for creating a row is **INSERT**.
- We will make a template string statement for the insert.

```
In [47]: # The %s are placeholders for adding values.  
insert_sql = """  
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)  
values(%s,%s,%s,%s,%s,%s)  
....
```

Now loop through the data and do the inserts.

```
In [48]: # Do now worry about what a cursor is for now.  
#  
cur = conn.cursor()
```

```
In [49]: for r in new_rows:  
    # print(r.values())  
    print("SQL = ", cur.mogrify(insert_sql, list(r.values())))  
    res = cur.execute(insert_sql, list(r.values()))
```

```
SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('d65239a5-d26c-48fc-83e0-9add1cc8e689','Marne','Charil','Gilbart','cgilbart@slashdot.org','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('ac1cd726-5dc0-41f8-91e5-3724e77cc8a3','Sybyl','Brandice','Hawkey','bhawkey1@examiner.com','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('ff3f9660-7442-4a8f-aaff-850bbb77ecbc','Gustave','Nehemiah','Kindell','nkindell2@prnewswire.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('4d4e3349-fb84-427c-9129-deef193e16ec','Rozamond','Hollyanne','Nelthorpe','hnelthorpe3@mozilla.org','GSA
S')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('462efd0b-6f67-44ed-90f1-2c2503dfc24c','Desmund','Fenelia','Aymes','faymes4@adobe.com','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('a99a5990-8f3f-4ca1-a5be-3b23348ba3d3','Dmitri','Reagan','Ladbury','rladbury5@csmonitor.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('75e9c8d8-1408-4bb0-b2d0-956df2b3cc9d','Mirna','Izak','Meaker','imeaker6@dailymail.co.uk','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('3d211d67-960d-4f67-8657-de6bc339457d','Karil','Kynthia','Emslie','kemslie7@jalbum.net','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('a99e0c14-4a45-4ce2-a178-c00e03b58e67','Buddie','Starla','Livermore','s livermore8@wunderground.com','SEA
S')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('3603774a-ee1f-4df5-acca-78b2d210ad44','Kaylil','Tammy','Jagg','tjagg9@gov.uk','GS')
```

```
SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('3c22c62c-64bb-4b73-b6a8-f2eb26af5654','Arlen','Florence','Baldacco','fbaldacca@slideshare.net','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('2514a9a6-a696-429c-a81c-9f23826b98aa','Whitney','Micki','Pilley','mpilleyb@netscape.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('5a1a1d26-0513-4543-9222-67792bd02844','Forester','Kele','Wharmby','kwharmbyc@nydailynews.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('e8236b3b-e660-46bc-967c-83d423873aa8','Hilarius','Basilus','Zanussii','bzanussiid@census.gov','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('7e7dbc6b-995b-436b-9df6-e2ad9bb6de89','Jody','Rebecca','Murch','rmurche@imageshack.us','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('3482655b-396c-46c5-83f5-294fa104982c','Elvin','Corri','Wedmore.','cwedmoref@google.nl','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('68bc6a15-3251-4f52-8534-47f33be6d046','Merrily','Marabel','Baszniak','mbaszniakg@usa.gov','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('b14b5c18-2f77-46b0-b71d-8757bbadf202','Tad','Aldridge','Debell','adebellh@hexun.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('bf64cb39-a13a-4905-9cd9-df77348e2bb2','Benjamen','Antonius','Ruoff','aruoffi@list-manage.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('59dd32a9-b036-44c5-8c0e-31ba31496b72','Hilly','Taryn','Prigmore','tprigmorej@noaa.gov','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
```

```

values('08c0a219-fac0-4136-9764-48c90e809c19','Hayes','Tedmund','Grieves','tgrievesk@pinterest.com','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('011e379a-e8c9-44e5-92d3-5453bcc4b252','Barbette','Mildred','Eaves','meavesh@google.com.br','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('db673722-031c-4ec2-808c-44db5c9fc7a2','Elissa','Dacey','Gorry','dgorrym@cnet.com','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('a8ead7ff-295e-48e1-ab0a-9fce70875bfd','Kristopher','Karl','Clunan','kclunann@constantcontact.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('7f0279b5-e546-4c53-b8a4-ddd1eabc7057','Faulkner','Yvette','Rackley','yrackleyo@go.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('4edfc4bf-e42a-4c7c-ada2-c2f4b681a8c9','Gerty','Stepha','Wisniewski','swisniewskip@spiegel.de','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('a16167b6-5467-4d39-9e98-bb58944a178c','Allie','Bernelle','Lies','bliesq@mayoclinic.com','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('b7a875ad-ddaf-4aa2-9e1d-c057ec19507a','Lion','Lilli','Tindle','ltindler@tmall.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('1d781736-c27b-41e3-aca3-0a85ae97953d','Frederique','Erna','Deeley','edeeleys@cyberchimps.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('efee259a-8515-4b05-9700-1c4c19323725','Staford','Kathrine','Rosin','krosint@senate.gov','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('83dc9d92-c777-4033-8578-6c093b4c6171','Pierette','Faulkner','Starling','fstarlingu@wix.com','GS')

```

```
SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('e8cdf262-249c-4453-b7dd-1c0cb960ccc6','Leodora','Deanne','Nulty','dnultyv@slate.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('4d81aded-affe-40f6-b6a5-c99ff361e165','Novelia','Chrysler','Spurrett','cspurrettw@alexa.com','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('f111d8b7-d70d-4a0e-808a-6d84184cba45','Datha','Blake','Kensall','bkensallx@oothemes.com','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('d1e15203-c22d-4ff5-a9b2-271a8f32ba34','Jonathon','Lainey','Swire','lswirey@hao123.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('a98adc93-910d-4107-9e3a-3350b0ad4857','Kerianne','Theodosia','Borless','tborlessz@alexa.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('fef9944a-4ed4-4f1b-892f-3c6693d3f4b3','Robbie','Symon','O\'Duilleain','soduilleain10@mlb.com','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('8f57bb7e-1aa7-4fc6-8677-e3102e5d99dd','Stefan','Emilie','Addis','eadds11@paginegialle.it','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('d7d93a32-f106-4e9d-8e05-4941eb56d1c6','Morgen','Holly','Woodroffe','hwoodroffe12@yale.edu','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('4c8503cd-35c2-4c21-9f16-bd04e3b232ce','Sonia','Verna','St. Paul','vstpaul13@fastcompany.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('ac2dffde-bc2e-41f7-aa92-9217f47e608b','Vicky','Beret','Cattell','bcattell14@berkeley.edu','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
```

```
values('3a05bc67-f424-4d47-8436-f58812120a89','Lira','Bonita','Redmore','bredmore15@gov.uk','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('3ea1a5e6-285e-4440-aa85-db47a394124f','Reg','Vevay','Burtwistle','vburtwistle16@skype.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('0deb22c9-a8a7-4ec8-affe-cbb55f506b8b','Burk','Burr','Southers','bsouthers17@blinklist.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('3dfcabfa-ec00-48b1-bbc5-734ffcc39278','Gussi','Ibby','Kovalski','ikovalski18@sakura.ne.jp','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('4300f352-1495-468f-b702-57867d8bbfb2','Clarie','Katerina','Jacombs','kjacombs19@toplist.cz','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('127ce564-b2eb-4dee-a84c-6e70d51012e0','Stuart','Biddy','Rabbe','brabbel1a@wisc.edu','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('0f42a171-44d2-4691-81b8-b4f36f874968','Melisandra','Ian','Choldcroft','icholdcroft1b@army.mil','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('47a57bc6-72d1-4051-98d1-cedec1577776','Sara-ann','Sasha','Schumacher','sschumacher1c@earthlink.net','GSA
S')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('e61cdccb-f516-4d8b-9349-ae2685dac7d5','Madalena','Faina','Fleg','ffleg1d@dyndns.org','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('cf2c654f-68bf-4311-9c0f-10904840c4c5','Starr','Mina','Cockman','mcockman1e@dedecms.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('c4124c49-3c33-4f38-8b36-eb5560dc6802','Jacintha','Des','Mayze','dmayze1f@blogs.com','GS')
```

```
SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('937086c2-f05e-43fa-8518-1b532a70561f','Doris','Sherye','Buret','sburet1g@xrea.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('24dfc851-b960-48bc-b743-e05daa9803e5','Salvidor','Hilarius','Moynihan','hmoynihan1h@meetup.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('4420fa7b-e1f8-4355-8e79-444117a72ffd','Duke','Lenka','Cummings','lcummings1i@devhub.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('464a726a-da2d-4863-bb65-41790a4e8634','Haley','Angelique','Shera','ashera1j@multiply.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('bf51c67b-9196-4f2a-94e1-ecd42e9bbe53','Drucy','Wyndham','Dagon','wdagon1k@deliciousdays.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('c09a2ca7-8515-4c1a-a578-8ba56fff797e','Stevy','Brigitte','Pickett','bpickett1l@indiegogo.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('060eedf5-0577-4909-8ee6-308b9b638819','Van','Jacquenette','Meaden','jmeaden1m@joomla.org','CC')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('a047f4a4-0c0a-4fcf-af33-043d4cf470eb','Sandra','Faydra','Iacobucci','fiacobucci1n@columbia.edu','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('414955f4-d812-4493-a15a-8de276e8c9cf','Esdras','Mohandis','Rubens','mrubens1o@reference.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('0d948239-e148-4272-9752-7e258d4936c5','Roy','Mayne','Dalliwartr','mdalliwartr1p@last.fm','CC')

SQL =
```

```

insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('3cde3f86-bb50-4007-b303-d48ac570411f','Whitman','Carlota','Daintry','cdaintry1q@netlog.com','GS')

SQL =
insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('3b2e33b9-2a45-4a10-ab18-be7ec78b2379','Devon','Ritchie','Housbie','rhouxbie1r@europa.eu','CC')

SQL =
insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('d2f8355f-4eb0-40c7-8886-12871801cfe5','Jillane','Mickie','Revelle','mrevele1s@intel.com','GS')

SQL =
insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('4362ce69-007a-491a-a9e8-337cd0f09260','Rayner','Rodolphe','Skillanders','rskillanders1t@wsj.com','SEAS')

SQL =
insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('2fe70c84-9b7e-4f66-ad7e-8f420d093b79','Dee dee','Bili','Humberston','bhumberston1u@prnewswire.com','GS')

SQL =
insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('c7916b38-c44e-4185-b7bc-a15c628800f0','Lorin','Morie','Bellchamber','mbellchamber1v@google.cn','CC')

SQL =
insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('aa61706c-676b-4013-a29a-a2f7e2f52c85','Corena','Sharron','Mostin','smostin1w@sun.com','GSAS')

SQL =
insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('19575f9c-2fc0-4756-b2c6-ce7e28276ecd','Katherina','Angelle','Lezemore','alezemore1x@telegraph.co.uk','C
C')

SQL =
insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('0ecc5505-72b8-4b7d-b44a-0d002bf2c213','Pepita','Allegra','Peart','apeart1y@simplemachines.org','CC')

SQL =
insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('28f473a3-2646-4bf7-885a-bd6b5e661d94','Dion','Torie','Gaither','tgaither1z@constantcontact.com','CC')

SQL =
insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)

```

```
values('5f598f8c-0d51-4270-b2f8-a5be91f93c92','Gerry','Dorelia','MacGorman','dmacgorman20@cbslocal.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
    values('0c28e9e7-1e95-4917-a8d6-5fa8a4c5baee','Mar','Ramsey','Kemshell','rkemshell21@vinaora.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
    values('fe231510-7b3f-405e-8380-aa6ee7dfcc50','Amil','Kathie','Jerdan','kjerdan22@dell.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
    values('8beab128-8c82-44f3-99dd-db322cee1f1b','Tamarra','Ezequiel','Mundell','emundell23.blogspot.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
    values('2327b043-8915-4466-a552-ce6f936d5a71','Zelig','Cassandry','Manlow','cmanlow24@goo.ne.jp','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
    values('0a3b74ad-6eb6-41c4-9485-0444cd64e9e3','Neel','Merry','Bourcq','mbourcq25@prweb.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
    values('1ff8e19c-dc18-4c49-b2a3-b7db876e988e','Hyacintha','Almeda','Dronsfield','adronsfield26@facebook.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
    values('e5311550-baa2-4fc2-a418-91ac4318be9b','Rutledge','Donny','Landsborough','dlandsborough27@booking.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
    values('8e6cbaae-32a1-4402-a606-1baadd233fa3','Melina','Cordelie','Tramel','ctramel28@narod.ru','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
    values('08bc87f2-45c8-4d82-9941-80a92efbd416','Cynthia','Lewes','Creboe','lcreboe29@mysql.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
```

```

values('b2fa45a7-3515-4c88-b6e4-2f6817f7e265','Edsel','Siward','Foch','sfoch2a@dedecms.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('0267d396-8d96-4fb9-b73d-7bd386ae3f82','Hewitt','Sheeree','Popham','spopham2b@mit.edu','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('b8cca106-8ee2-4cc0-9528-b9860e045c8c','Bellanca','Corrie','Schole','cscholle2c@photobucket.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('41571b2a-a11f-42d8-93c8-8518b2e6bf5b','Laurianne','Kaiser','Mulrenan','kmulrenan2d@sbwire.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('6e14b5b8-73f1-4c5f-8b7a-5ddc3088351c','Hall','Madella','Gabbotts','mgabbotts2e@topsy.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('afd73a3b-8cf2-47c6-954e-40307d0ae917','Cedric','Alwyn','Bustard','abustard2f@wikia.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('9cb4f5b6-75a7-4b75-bfa3-9fada74cf90c','Ancell','Justina','Mapp','jmapp2g@hexun.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('458c6069-6265-4c75-bb75-cd9f525d4051','Harlie','Eldon','Juara','ejuara2h@slate.com','GS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('515cd5c5-cc2b-4e7b-b4ad-cf628f6daa13','Engelbert','Maryjane','Penney','mpenney2i@ycombinator.com','SEAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('52d96c52-7c19-4863-8a35-823ba7c71522','Elladine','Murdoch','Medcalf','mmedcalf2j@soundcloud.com','GSAS')

SQL =
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)
values('f5057ed0-38b2-4715-a2ca-b0cf3115ad02','Bennett','Adrian','Gennrich','agennrich2k@arstechnica.com','SEAS')

```

```
SQL =  
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)  
values('37150ebe-f6fa-43fa-a6e1-a462610da7f4','Arny','Marwin','Izat','mizat2l@eepurl.com','GSAS')  
  
SQL =  
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)  
values('ebb300d2-0884-4987-a81e-a45944e8c2fc','Ralf','Georgi','Dendon','gdendon2m@purevolume.com','CC')  
  
SQL =  
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)  
values('11c8ca51-690b-4683-98bd-9a1b00d92df9','Willard','Garrek','Ghelerdini','gghelerdini2n@google.it','SEAS')  
  
SQL =  
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)  
values('4fece6e0-db7f-431d-8979-9d6e6bfe2d9e','Link','Clarabelle','Beretta','cberetta2o@cpanel.net','CC')  
  
SQL =  
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)  
values('1884fc35-206f-4c0e-b5ab-eaa7a3f57f5e','Ira','Sergei','Tangye','stangye2p@utexas.edu','CC')  
  
SQL =  
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)  
values('0083a12e-8ec7-4c28-91fb-62838d460e1e','Shanie','Thor','Turtle','tturtle2q@si.edu','GS')  
  
SQL =  
    insert into f22_databases.columbia_students(guid, last_name, first_name, middle_name, email, school_code)  
values('0fcfc1f1-5c30-4632-8092-23bc2ee332f5','Addie','Britt','Izkovicz','bizkovicz2r@ebay.com','CC')
```

Let's see if we can find our data.

```
In [50]: %sql select * from f22_databases.columbia_students;  
* mysql+pymysql://root:***@localhost  
100 rows affected.
```

Out[50]:

	guid	last_name	first_name	middle_name	email	school_code
	d65239a5-d26c-48fc-83e0-9add1cc8e689	Marne	Charil	Gilbart	cgilbart0@slashdot.org	GS
	ac1cd726-5dc0-41f8-91e5-3724e77cc8a3	Sybyl	Brandice	Hawkey	bhawkey1@examiner.com	CC
	ff3f9660-7442-4a8f-aaff-850bbb77ecbc	Gustave	Nehemiah	Kindell	nkindell2@prnewswire.com	GS
	4d4e3349-fb84-427c-9129-deef193e16ec	Rozamond	Hollyanne	Nelthorpe	hnelthorpe3@mozilla.org	GSAS
	462efd0b-6f67-44ed-90f1-2c2503dfc24c	Desmund	Fenelia	Aymes	faymes4@adobe.com	CC
	a99a5990-8f3f-4ca1-a5be-3b23348ba3d3	Dmitri	Reagan	Ladbury	rladbury5@csmonitor.com	SEAS
	75e9c8d8-1408-4bb0-b2d0-956df2b3cc9d	Mirna	Izak	Meaker	imeaker6@dailymail.co.uk	GSAS
	3d211d67-960d-4f67-8657-de6bc339457d	Karil	Kynthia	Emslie	kemslie7@jalbum.net	GSAS
	a99e0c14-4a45-4ce2-a178-c00e03b58e67	Buddie	Starla	Livermore	slivermore8@wunderground.com	SEAS
	3603774a-ee1f-4df5-acca-78b2d210ad44	Kaylil	Tammy	Jagg	tjagg9@gov.uk	GS
	3c22c62c-64bb-4b73-b6a8-f2eb26af5654	Arlen	Florence	Baldacco	fbaldacca@slideshare.net	GSAS
	2514a9a6-a696-429c-a81c-9f23826b98aa	Whitney	Micki	Pilley	mpilleyb@netscape.com	GSAS
	5a1a1d26-0513-4543-9222-67792bd02844	Forester	Kele	Wharmby	kwharmbyc@nydailynews.com	GS
	e8236b3b-e660-46bc-967c-83d423873aa8	Hilarius	Basilius	Zanussii	bzanussiid@census.gov	GSAS
	7e7dbc6b-995b-436b-9df6-e2ad9bb6de89	Jody	Rebbecca	Murch	rmurche@imageshack.us	GSAS
	3482655b-396c-46c5-83f5-294fa104982c	Elvin	Corri	Wedmore.	cwedmoref@google.nl	GS
	68bc6a15-3251-4f52-8534-47f33be6d046	Merrily	Marabel	Baszniak	mbaszniakg@usa.gov	CC
	b14b5c18-2f77-46b0-b71d-8757bbadf202	Tad	Aldridge	Debell	adebellh@hexun.com	GSAS
	bf64cb39-a13a-4905-9cd9-df77348e2bb2	Benjamen	Antonius	Ruoff	aruoffi@list-manage.com	SEAS
	59dd32a9-b036-44c5-8c0e-31ba31496b72	Hilly	Taryn	Prigmore	tprigmorej@noaa.gov	GSAS
	08c0a219-fac0-4136-9764-48c90e809c19	Hayes	Tedmund	Grieves	tgrievesk@pinterest.com	CC
	011e379a-e8c9-44e5-92d3-5453bcc4b252	Barbette	Mildred	Eaves	meavesl@google.com.br	SEAS
	db673722-031c-4ec2-808c-44db5c9fc7a2	Elissa	Dacey	Gorry	dgorrym@cnet.com	CC
	a8ead7ff-295e-48e1-ab0a-9fce70875bfd	Kristopher	Karl	Clunan	kclunann@constantcontact.com	SEAS
	7f0279b5-e546-4c53-b8a4-ddd1eabc7057	Faulkner	Yvette	Rackley	yrackleyo@go.com	GSAS

Setup						
4edfc4bf-e42a-4c7c-ada2-c2f4b681a8c9	Gerty	Stepha	Wisniewski	swisniewskip@spiegel.de	GSAS	
a16167b6-5467-4d39-9e98-bb58944a178c	Allie	Bernelle	Lies	bliesq@mayoclinic.com	CC	
b7a875ad-ddaf-4aa2-9e1d-c057ec19507a	Lion	Lilli	Tindle	ltindler@tmall.com	GS	
1d781736-c27b-41e3-aca3-0a85ae97953d	Frederique	Erna	Deeley	edeeleys@cyberchimps.com	GSAS	
efee259a-8515-4b05-9700-1c4c19323725	Staford	Kathrine	Rosin	krosint@senate.gov	GSAS	
83dc9d92-c777-4033-8578-6c093b4c6171	Pierette	Faulkner	Starling	fstarlingu@wix.com	GS	
e8cdf262-249c-4453-b7dd-1c0cb960ccc6	Leodora	Deanne	Nulty	dnultyv@slate.com	GS	
4d81aded-affe-40f6-b6a5-c99ff361e165	Novelia	Chrysler	Spurrett	cspurrettw@alexa.com	CC	
f111d8b7-d70d-4a0e-808a-6d84184cba45	Datha	Blake	Kensall	bkensallx@woothemes.com	CC	
d1e15203-c22d-4ff5-a9b2-271a8f32ba34	Jonathon	Lainey	Swire	lswirey@hao123.com	SEAS	
a98adc93-910d-4107-9e3a-3350b0ad4857	Kerianne	Theodosia	Borless	tborlessz@alexa.com	GSAS	
fef9944a-4ed4-4f1b-892f-3c6693d3f4b3	Robbie	Symon	O'Duilleain	soduilleain10@mlb.com	CC	
8f57bb7e-1aa7-4fc6-8677-e3102e5d99dd	Stefan	Emilie	Adds	eadds11@paginegialle.it	SEAS	
d7d93a32-f106-4e9d-8e05-4941eb56d1c6	Morgen	Holly	Woodroofe	hwoodroofe12@yale.edu	CC	
4c8503cd-35c2-4c21-9f16-bd04e3b232ce	Sonia	Verna	St. Paul	vstpaul13@fastcompany.com	GS	
ac2dffde-bc2e-41f7-aa92-9217f47e608b	Vicky	Beret	Cattell	bcattell14@berkeley.edu	SEAS	
3a05bc67-f424-4d47-8436-f58812120a89	Lira	Bonita	Redmore	bredmore15@gov.uk	CC	
3ea1a5e6-285e-4440-aa85-db47a394124f	Reg	Vevay	Burtwistle	vburtwistle16@skype.com	GS	
0deb22c9-a8a7-4ec8-affe-cbb55f506b8b	Burk	Burr	Southers	bsouthers17@blinklist.com	GSAS	
3dfcabfa-ec00-48b1-bbc5-734ffcc39278	Gussi	Ibby	Kovalski	ikovalski18@sakura.ne.jp	CC	
4300f352-1495-468f-b702-57867d8bbfb2	Clarie	Katerina	Jacombs	kjacombs19@toplist.cz	CC	
127ce564-b2eb-4dee-a84c-6e70d51012e0	Stuart	Biddy	Rabbe	brabbe1a@wisc.edu	SEAS	
0f42a171-44d2-4691-81b8-b4f36f874968	Melisandra	Ian	Choldcroft	icholdcroft1b@army.mil	CC	
47a57bc6-72d1-4051-98d1-cedec1577776	Sara-ann	Sasha	Schumacher	sschumacher1c@earthlink.net	GSAS	
e61cdccb-f516-4d8b-9349-ae2685dac7d5	Madalena	Faina	Fleg	ffleg1d@dyndns.org	GS	
cf2c654f-68bf-4311-9c0f-10904840c4c5	Starr	Mina	Cockman	mcockman1e@dedecms.com	SEAS	
c4124c49-3c33-4f38-8b36-eb5560dc6802	Jacintha	Des	Mayze	dmayze1f@blogs.com	GS	

Setup

937086c2-f05e-43fa-8518-1b532a70561f	Doris	Sherye	Buret	sburet1g@xrea.com	GS
24dfc851-b960-48bc-b743-e05daa9803e5	Salvidor	Hilarius	Moynihan	hmoynihan1h@meetup.com	GS
4420fa7b-e1f8-4355-8e79-444117a72ffd	Duke	Lenka	Cummings	lcummings1i@devhub.com	SEAS
464a726a-da2d-4863-bb65-41790a4e8634	Haley	Angelique	Shera	ashera1j@multiply.com	GS
bf51c67b-9196-4f2a-94e1-ecd42e9bbe53	Drucy	Wyndham	Dagon	wdagon1k@deliciousdays.com	GS
c09a2ca7-8515-4c1a-a578-8ba56fff797e	Stevy	Brigitte	Pickett	bpickett1l@indiegogo.com	GSAS
060eedf5-0577-4909-8ee6-308b9b638819	Van	Jacquenette	Meaden	jmeaden1m@joomla.org	CC
a047f4a4-0c0a-4fcf-af33-043d4cf470eb	Sandra	Faydra	Iacobucci	fiacobucci1n@columbia.edu	GS
414955f4-d812-4493-a15a-8de276e8c9cf	Esdras	Mohandas	Rubens	mrubens1o@reference.com	GS
0d948239-e148-4272-9752-7e258d4936c5	Roy	Mayne	Dalliwartr	mdalliwartr1p@last.fm	CC
3cde3f86-bb50-4007-b303-d48ac570411f	Whitman	Carlota	Daintry	cdaintry1q@netlog.com	GS
3b2e33b9-2a45-4a10-ab18-be7ec78b2379	Devon	Ritchie	Housbie	rhousbie1r@europa.eu	CC
d2f8355f-4eb0-40c7-8886-12871801cfe5	Jillane	Mickie	Revelle	mreveille1s@intel.com	GS
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aa61706c-676b-4013-a29a-a2f7e2f52c85	Corena	Sharron	Mostin	smostin1w@sun.com	GSAS
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2327b043-8915-4466-a552-ce6f936d5a71	Zelig	Cassandry	Manlow	cmanlow24@goo.ne.jp	SEAS
0a3b74ad-6eb6-41c4-9485-0444cd64e9e3	Neel	Merry	Bourcq	mbourcq25@prweb.com	GS

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8e6cbaae-32a1-4402-a606-1baadd233fa3	Melina	Cordelia	Tramel	ctramel28@narod.ru	GS
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515cd5c5-cc2b-4e7b-b4ad-cf628f6daa13	Engelbert	Maryjane	Penney	mpenney2i@ycombinator.com	SEAS
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1884fc35-206f-4c0e-b5ab-eaa7a3f57f5e	Ira	Sergei	Tangye	stangye2p@utexas.edu	CC
0083a12e-8ec7-4c28-91fb-62838d460e1e	Shanie	Thor	Turtle	tturtle2q@si.edu	GS
0fcfc1f1-5c30-4632-8092-23bc2ee332f5	Addie	Britt	Izkovicz	bizkovicz2r@ebay.com	CC

Complete

The phase of the project initial setup is complete.

We will perform other tasks in future steps.

In []: