

CSV Data Import to a Database: Write a Python script that reads data from a CSV file containing user information (e.g., name, email) and inserts it into a SQLite database.

In [1]:

```
import pandas as pd
import sqlite3
```

In [2]:

```
df = pd.read_csv('sample-data.csv')
```

In [3]:

```
df
```

Out[3]:

	SSN	gender	birthdate	maiden name	last name	first name	address	city	state	zip	phone	
0	172-32-1176	m	4/21/1958	Smith	White	Johnson	10932 Bigge Rd	Menlo Park	CA	94025	408 496-7223	jw
1	514-14-8905	f	12/22/1944	Amaker	Borden	Ashley	4469 Sherman Street	Goff	KS	66428	785-939-6046	aboi
2	213-46-8915	f	4/21/1958	Pinson	Green	Marjorie	309 63rd St. #411	Oakland	CA	94618	415 986-7020	mgr
3	524-02-7657	m	3/25/1962	Hall	Munsch	Jerome	2183 Roy Alley	Centennial	CO	80112	303-901-6123	jmur
4	489-36-8350	m	1964/09/06	Porter	Aragon	Robert	3181 White Oak Drive	Kansas City	MO	66215	816-645-6936	rara
5	514-30-2668	f	1986/05/27	Nicholson	Russell	Jacki	3097 Better Street	Kansas City	MO	66215	913-227-6106	jrus
6	505-88-5714	f	1963/09/23	Mcclain	Venson	Lillian	539 Kyle Street	Wood River	NE	68883	308-583-8759	lver
7	690-05-5315	m	1969/10/02	Kings	Conley	Thomas	570 Nancy Street	Morrisville	NC	27560	919-656-6779	tco
8	646-44-9061	M	1978/01/12	Kurtz	Jackson	Charles	1074 Small Street	New York	NY	10011	212-847-4915	cjack
9	421-37-1396	f	1980/04/09	Linden	Davis	Susan	4222 Bedford Street	Jasper	AL	35501	205-221-9156	sd
10	461-97-5660	f	1975/01/04	Kingdon	Watson	Gail	3414 Gore Street	Houston	TX	77002	713-547-3414	gwat
11	660-03-8360	f	1953/07/11	Onwunli	Garrison	Lisa	515 Hillside Drive	Lake Charles	LA	70629	337-965-2982	lgarr
12	751-01-2327	f	1968/02/16	Simpson	Renfro	Julie	4032 Arron Smith Drive	Kaunakakai	HI	96748	808-560-1638	jre

	SSN	gender	birthdate	maiden name	last name	first name	address	city	state	zip	phone	email
13	81-1301	m	1952/01/20	Mcatee	Heard	James	2865 Driftwood Road	San Jose	CA	95129	370-0031	jhe
14	624-84-9181	m	1980/01/16	Frazier	Reyes	Danny	3500 Diane Street	San Luis Obispo	CA	93401	805-369-0464	dre
15	449-48-3135	m	1982/06/14	Feusier	Hall	Mark	4986 Chapel Street	Houston	TX	77077	281-597-5517	mr
16	477-36-0282	m	1961/03/10	Vasquez	Mceachern	Monte	456 Oral Lake Road	Minneapolis	MN	55401	952-412-3707	mmceach
17	458-02-6124	m	1955/09/20	Pennebaker	Diaz	Christopher	582 Thrash Trail	Dallas	TX	75247	903-624-9156	chr
18	044-34-6954	m	1967/05/28	Simpson	Lowe	Tim	1620 Maxwell Street	East Hartford	CT	6108	860-755-0293	tim
19	587-03-2682	f	1958/10/24	Dickerson	Oyola	Lynette	2489 O Conner Street	Pascagoula	MS	39567	228-938-2056	lo
20	421-90-3440	f	1953/07/17	Kroeger	Morrison	Adriane	4696 Retreat Avenue	Birmingham	AL	35209	205-276-1807	amorr
21	451-80-3526	m	1950/06/09	Parmer	Santos	Thomas	173 Lunetta Street	Fort Worth	TX	76104	940-859-1393	tsan
22	300-62-3266	m	1965/02/10	Spain	Faulkner	Victor	1843 Olive Street	Toledo	OH	43602	419-340-3832	vfau
23	322-84-2281	m	1977/08/19	Miley	Iorio	Albert	4899 University Hill Road	Springfield	IL	62701	217-615-6419	ai
24	465-73-5022	f	1964/06/20	Summers	Kaminski	Teresa	1517 Gambler Lane	Houston	TX	77006	281-906-2148	tkami
25	612-20-6832	m	1979/08/18	Banas	Edwards	Rick	4254 Walkers Ridge Way	Gardena	CA	90248	626-991-3620	redwi
26	687-05-8365	f	1976/05/24	Robbins	Peacock	Stacey	3396 Nancy Street	Raleigh	NC	27612	919-571-2339	speac
27	205-52-0027	f	1950/03/26	Sanford	Nelson	Agnes	4213 High Meadow Lane	Avoca	PA	18641	570-480-8704	anel
28	404-12-2154	f	1984/09/21	Garcia	Townsend	Mireille	2877 Glen Street	Paducah	KY	42003	270-408-7254	mtown
29	151-32-2558	f	1952/11/19	Stockdale	Zwick	Rebecca	784 Beechwood Avenue	Piscataway	NJ	8854	908-814-6733	rza

In [4]:

```
name_email_df = df[['first name', 'last name', 'email']]
name_email_df
```

Out[4]:

	first name	last name	email
0	Johnson	White	jwhite@domain.com

1	first_name	last_name	email
2	Marjorie	Green	mgreen@domain.com
3	Jerome	Munsch	jmunsch@domain.com
4	Robert	Aragon	raragon@domain.com
5	Jacki	Russell	jrussell@domain.com
6	Lillian	Venson	lvenson@domain.com
7	Thomas	Conley	tconley@domain.com
8	Charles	Jackson	cjackson@domain.com
9	Susan	Davis	sdavis@domain.com
10	Gail	Watson	gwatson@domain.com
11	Lisa	Garrison	lgarrison@domain.com
12	Julie	Renfro	jrenfro@domain.com
13	James	Heard	jheard@domain.com
14	Danny	Reyes	dreyes@domain.com
15	Mark	Hall	mhall@domain.com
16	Monte	Meachern	mmeachern@domain.com
17	Christopher	Diaz	cdiaz@domain.com
18	Tim	Lowe	tlowe@domain.com
19	Lynette	Oyola	loyola@domain.com
20	Adriane	Morrison	amorrison@domain.com
21	Thomas	Santos	tsantos@domain.com
22	Victor	Faulkner	vfaulkner@domain.com
23	Albert	Iorio	aiorio@domain.com
24	Teresa	Kaminski	tkaminski@domain.com
25	Rick	Edwards	redwards@domain.com
26	Stacey	Peacock	speacock@domain.com
27	Agnes	Nelson	anelson@domain.com
28	Mireille	Townsend	mtownsend@domain.com
29	Rebecca	Zwick	rzwick@domain.com

In [5]:

```
connect = sqlite3.connect('name_email_db.sqlite')

cursor = connect.cursor()

create_table_query = '''
CREATE TABLE IF NOT EXISTS name_email (id INTEGER PRIMARY KEY,first_name TEXT,last_name T
EXT,email TEXT)
'''
cursor.execute(create_table_query)

for index, row in df.iterrows():
    insert_query = f'''
INSERT INTO name_email (first_name, last_name, email)
VALUES (?, ?, ?)
'''
    cursor.execute(insert_query, (row['first name'], row['last name'], row['email']))

connect.commit()
connect.close()
```

In [6]:

```
connect = sqlite3.connect('name_email_db.sqlite')
cursor = connect.cursor()

# Fetch all records from the table
cursor.execute('SELECT * FROM name_email')
rows = cursor.fetchall()

# Print the fetched data
for row in rows:
    print(row) # This will print each row as a tuple

# Close the connection
connect.close()
```

```
(1, 'Johnson', 'White', 'jwhite@domain.com')
(2, 'Ashley', 'Borden', 'aborden@domain.com')
(3, 'Marjorie', 'Green', 'mgreen@domain.com')
(4, 'Jerome', 'Munsch', 'jmunsch@domain.com')
(5, 'Robert', 'Aragon', 'raragon@domain.com')
(6, 'Jacki', 'Russell', 'jrussell@domain.com')
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