In [2]:
```
name = "Jan C. Bierowiec"
fdn = "A18424173"
email = "jbierowiec@fordham.edu"
track = "Programming Track"
collaboration_statement = "I attest that I have not collaborated with anyone when doing this lab and that all the code is mine"


print(name)
print(fdn)
print(email)
print(track)
print(collaboration_statement)
```

```
Jan C. Bierowiec
A18424173
jbierowiec@fordham.edu
Programming Track
I attest that I have not collaborated with anyone when doing this lab and that all the code is mine
```

In [3]:
```
%load_ext sql
```

In [5]:
```
%sql mysql+pymysql://root:root@user@localhost
```

In [7]:
```
%sql USE db_book
```

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

Out[7]: []

In [15]:
```
%%sql

CREATE TABLE people (
    id INTEGER PRIMARY KEY AUTO_INCREMENT UNIQUE NOT NULL,
    name TEXT NOT NULL,
    email TEXT,
    age INTEGER
);
```

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

Out[15]: []

QUESTION 1

In [23]:
```
%%sql

INSERT INTO people (name, email) VALUES ('Jan C. Bierowiec', 'jbierowiec@fordham.edu');
```

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

Out[23]: []

In [25]:
```
%%sql

SELECT * FROM people;
```

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

Out[25]:

id	name	email	age
1	Jan C. Bierowiec	jbierowiec@fordham.edu	None

In [27]:
```
%%sql

-- Inserting multiple people (50) with different names, emails, and ages

INSERT INTO people (name, email, age) VALUES
('Jay Summet', 'summetj@fordham.edu', 30),
('Sally Smith', 'ssmith@fordham.edu', 23),
('James White', 'jwhite@fordham.edu', 21),
('Lucas Robinson', 'lrobinson@fordham.edu', 45),
('Benjamin Brown', 'bbrown@gatech.edu', 19),
('Oliver Robinson', 'orobinson@fordham.edu', 34),
('James Martin', 'jmartin@nyu.edu', 20),
('Noah Rodriguez', 'nrodriguez007@fordham.edu', 54),
('Noah Lee', 'nlee34@nyu.edu', 25),
('Abigail Lewis', 'alewis@gatech.edu', 18),
('Henry Garcia', 'hgarcia@nyu.edu', 27),
('Elijah Martinez', 'martinez@nyu.edu', 19),
('Evelyn Johnson', 'ejohnson006@fordham.edu', 23),
('Olivia Wilde', 'owilde@gatech.edu', 70),
('Amelia Harris', 'aharris@gatech.edu', 54),
('Isabella Anderson', 'landerson007@fordham.edu', 43),
('John Clark', 'jclark@nyu.edu', 22),
('Henry Lewis', 'hlewis@gatech.edu', 24),
('Julius Caesar', 'jcaesar@harvard.edu', 21),
('Michael Jackson', 'mjackson@nyu.edu', 28),
('Emma Arrow', 'earrow@fordham.edu', 26),
('John Nash', 'jnash@fordham.edu', 70),
('Johnny Depp', 'jdepp@columbia.edu', 56),
('James Bond', 'jb007@cambridge.edu', 33),
('Harry Potter', 'hpotter@fordham.edu', 44),
('Megan Fox', 'mfox32@nyu.edu', 29),
('Amelia Earhart', 'aearhart@fordham.edu', 70),
('William Shakespeare', 'wshakespeare@oxford.edu', 101),
('Elon Musk', 'emusk@queens.edu', 55),
('Taylor Swift', 'tswift@nyu.edu', 30),
('Joe Schmoe', 'jschmoe@gatech.edu', 25),
('Paul Anderson', 'panderson056@fordham.edu', 22),
('Howard Feud', 'hfeud492@fordham.edu', 31),
('Jack Strong', 'jstrong@gatech.edu', 45),
('Archie Stone', 'astone@fordham.edu', 25),
('Thomas Burn', 'tburn007@mit.edu', 23),
('Greg Wright', 'gwright23@nyu.edu', 19),
('Michael Dunn', 'mdunn73@gatech.edu', 27),
('Caroline Rosenbaum', 'crosenbaum@nyu.edu', 67),
('Michael Cruise', 'mcruise@fordham.edu', 22),
('Hubert Rupert', 'hrupert@fordham.edu', 21),
('Sarah Lang', 'slang09@columbia.edu', 26),
('Alex Snow', 'asnow@nyu.edu', 18),
('Jason Samuels', 'jsamuels@fordham.edu', 28),
('Bruce Willis', 'bwillis@fordham.edu', 75),
('Faith Presca', 'fpresca27@nyu.edu', 23),
('Julia Carbona', 'jcarbona@fordham.edu', 20),
('Margaret Slavonich', 'mslavonich39@gatech.edu', 70),
('Owen Gaines', 'ogaines@fordham.edu', 22);
```

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

Out[27]: []

In [29]:
```
%%sql

SELECT * FROM people;
```

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

Out[29]:

id	name	email	age
1	Jan C. Bierowiec	jbierowiec@fordham.edu	None
2	Jay Summet	summetj@fordham.edu	30
3	Sally Smith	ssmith@fordham.edu	23
4	James White	jwhite@fordham.edu	21
5	Lucas Robinson	lrobinson@fordham.edu	45
6	Benjamin Brown	bbrown@gatech.edu	19
7	Oliver Robinson	orobinson@fordham.edu	34
8	James Martin	jmartin@nyu.edu	20
9	Noah Rodriguez	nrodriguez007@fordham.edu	54
10	Noah Lee	nlee34@nyu.edu	25
11	Abigail Lewis	alewis@gatech.edu	18
12	Henry Garcia	hgarcia@nyu.edu	27
13	Elijah Martinez	martinez@nyu.edu	19
14	Evelyn Johnson	ejohnson006@fordham.edu	23
15	Olivia Wilde	owilde@gatech.edu	70
16	Amelia Harris	aharris@gatech.edu	54
17	Isabella Anderson	landerson007@fordham.edu	43
18	John Clark	jclark@nyu.edu	22
19	Henry Lewis	hlewis@gatech.edu	24
20	Julius Caesar	jcaesar@harvard.edu	21
21	Michael Jackson	mjackson@nyu.edu	28
22	Emma Arrow	earrow@fordham.edu	26
23	John Nash	jnash@fordham.edu	70
24	Johnny Depp	jdepp@columbia.edu	56
25	James Bond	jb007@cambridge.edu	33
26	Harry Potter	hpotter@fordham.edu	44
27	Megan Fox	mfox32@nyu.edu	29
28	Amelia Earhart	aearhart@fordham.edu	70
29	William Shakespeare	wshakespeare@oxford.edu	101
30	Frederic Chopin	fchopin@nyu.edu	57
31	Elon Musk	emusk@queens.edu	55
32	Taylor Swift	tswift@nyu.edu	30
33	Joe Schmoe	jschmoe@gatech.edu	25
34	Paul Anderson	panderson056@fordham.edu	22
35	Howard Feud	hfeud492@fordham.edu	31
36	Jack Strong	jstrong@gatech.edu	45
37	Archie Stone	astone@fordham.edu	25
38	Thomas Burn	tburn007@mit.edu	23
39	Greg Wright	gwright23@nyu.edu	19
40	Michael Dunn	mdunn73@gatech.edu	27
41	Caroline Rosenbaum	crosenbaum@nyu.edu	67
42	Michael Cruise	mcruise@fordham.edu	22
43	Hubert Rupert	hrupert@fordham.edu	21
44	Sarah Lang	slang09@columbia.edu	26
45	Alex Snow	asnow@nyu.edu	18
46	Jason Samuels	jsamuels@fordham.edu	28
47	Bruce Willis	bwillis@fordham.edu	75
48	Faith Presca	fpresca27@nyu.edu	23
49	Julia Carbona	jcarbona@fordham.edu	20
50	Margaret Slavonich	mslavonich39@gatech.edu	70
51	Owen Gaines	ogaines@fordham.edu	22

QUESTION 2

In [33]:
```
%%sql

SELECT name, email
FROM people
WHERE age > 70;
```

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

Out[33]:

name	email
Olivia Wilde	owilde@gatech.edu
John Nash	jnash@fordham.edu
Amelia Earhart	aearhart@fordham.edu
Margaret Slavonich	mslavonich39@gatech.edu

QUESTION 3

In [36]:
```
%%sql

SELECT name, email
FROM people
WHERE email LIKE '%gatech.edu';
```

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

Out[36]:

name	email
Benjamin Brown	bbrown@gatech.edu
Abigail Lewis	alewis@gatech.edu
Olivia Wilde	owilde@gatech.edu
Amelia Harris	aharris@gatech.edu
Henry Lewis	hlewis@gatech.edu
Joe Schmoe	jschmoe@gatech.edu
Jack Strong	jstrong@gatech.edu
Michael Dunn	mdunn73@gatech.edu
Margaret Slavonich	mslavonich39@gatech.edu

QUESTION 4

In [39]:
```
%%sql

SELECT * FROM people
WHERE email LIKE '%002%';
```

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

Out[39]:

id	name	email	age
9	Noah Rodriguez	nrodriguez007@fordham.edu	54
17	Isabella Anderson	landerson007@fordham.edu	43
25	James Bond	jb007@cambridge.edu	33
38	Thomas Burn	tburn007@mit.edu	23

QUESTION 5

In [42]:
```
%%sql

UPDATE people
SET email = 'summetj'
WHERE name = 'Jay Summet';
```

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

Out[42]: []

In [44]:
```
%%sql

SELECT * FROM people
WHERE name = 'Jay Summet';
```

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

Out[44]:

id	name	email	age
2	Jay Summet	summetj	30

QUESTION 6

In [47]:
```
%%sql

DELETE FROM people
WHERE email LIKE '%nyu.edu';
```

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

Out[47]: []

In [49]:
```
%%sql

SELECT * FROM people;
```

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

Out[49]:

id	name	email	age
1	Jan C. Bierowiec	jbierowiec@fordham.edu	None
2	Jay Summet	summetj	30
3	Sally Smith	ssmith@fordham.edu	23
4	James White	jwhite@fordham.edu	21
5	Lucas Robinson	lrobinson@fordham.edu	45
6	Benjamin Brown	bbrown@gatech.edu	19
7	Oliver Robinson	orobinson@fordham.edu	34
9	Noah Rodriguez	nrodriguez007@fordham.edu	54
11	Abigail Lewis	alewis@gatech.edu	18
14	Evelyn Johnson	ejohnson006@fordham.edu	23
15	Olivia Wilde	owilde@gatech.edu	70
16	Amelia Harris	aharris@gatech.edu	54
17	Isabella Anderson	landerson007@fordham.edu	43
19	Henry Lewis	hlewis@gatech.edu	24
20	Julius Caesar	jcaesar@harvard.edu	21
22	Emma Arrow	earrow@fordham.edu	26
23	John Nash	jnash@fordham.edu	70
24	Johnny Depp	jdepp@columbia.edu	56
25	James Bond	jb007@cambridge.edu	33
26	Harry Potter	hpotter@fordham.edu	44
28	Amelia Earhart	aearhart@fordham.edu	70
29	William Shakespeare	wshakespeare@oxford.edu	101
31	Elon Musk	emusk@queens.edu	55
33	Joe Schmoe	jschmoe@gatech.edu	25
34	Paul Anderson	panderson056@fordham.edu	22
35	Howard Feud	hfeud492@fordham.edu	31
36	Jack Strong	jstrong@gatech.edu	45
37	Archie Stone	astone@fordham.edu	25
38	Thomas Burn	tburn007@mit.edu	23
40	Michael Dunn	mdunn73@gatech.edu	27
42	Michael Cruise	mcruise@fordham.edu	22
43	Hubert Rupert	hrupert@fordham.edu	21
44	Sarah Lang	slang09@columbia.edu	26
46	Jason Samuels	jsamuels@fordham.edu	28
47	Bruce Willis	bwillis@fordham.edu	75
49	Julia Carbona	jcarbona@fordham.edu	20
50	Margaret Slavonich	mslavonich39@gatech.edu	70
51	Owen Gaines	ogaines@fordham.edu	22

In [ ]: