Log on:

1. Connect to NYU VPN
2. SSH into remote

```
ssh NET_ID@jedi.poly.edu -L ASSIGNED_PORT:localhost:5432
```

3. Connect to postgres db

```
psql -h localhost -U NET_ID NET_ID_db
```

Manually create tables:

1. Create table(s)

```
CREATE TABLE first_examples (
 id serial primary key,
 name varchar(64) not null
);
```

2. Show table details

```
\d; \d first_examples; \d first_examples_id_seq;
```

3. Insert data into table and query results

```
-- Example of basic insert
INSERT INTO first_examples(name) VALUES('Ian');
-- Query all the data
SELECT * FROM first_examples;
-- Example of a primary key violation
INSERT INTO first_examples(id, name) VALUES(1, 'Julia');
-- Manually increment serial value
INSERT INTO first_examples(id, name) VALUES(5, 'Julia');
-- Query all the data
SELECT * FROM first_examples;
-- Query for nextval
SELECT nextval('first_examples_id_seq');
-- Update Julia and Shang's ids
UPDATE first_examples SET id = 2 WHERE id = 5;
-- Query all the data
SELECT * FROM first_examples;
-- Restart sequence
ALTER SEQUENCE first_examples_id_seq RESTART WITH 3;
```

```
-- Insert another record
INSERT INTO first_examples(name) VALUES('Shang');
-- Query all the data
SELECT * FROM first_examples;
```

Create table using SQL file and populate with CSV

1. Copy SQL and CSV files to remote

```
scp second_examples.csv second_examples.sql NET_ID@jedi.poly.edu:~
```

2. Create table psql \i command

```
\i second_examples.sql
# alternatively, psql -U NET_ID -d NET_ID_db -f second_examples.sql
```

3. Populate using CSV

```
cat ./second_examples.csv | psql -U NET_ID -d NET_ID_db -c "COPY
second_examples FROM STDIN CSV HEADER"
```

4. Connect to postgres instance

```
psql -h localhost -U NET_ID NET_ID_db
```

5. Query data

```
SELECT * FROM second_examples;
```