[Abdelmonem Mohamed Abdelmonem]

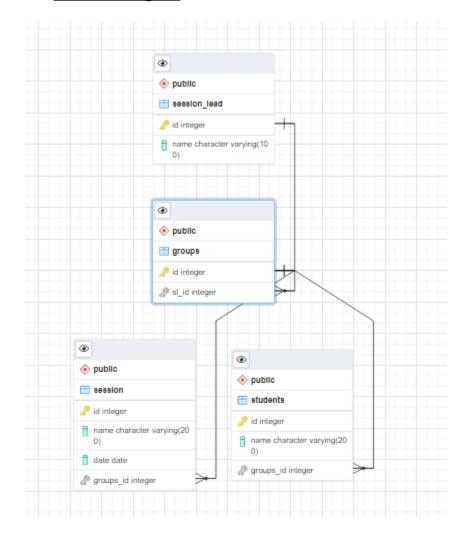
[Beshoy Ayad Abdelmalak]

I thought about the simplest way to create a Database for this project

Created 4 tables

Session_lead - groups - Students - session

- Database diagram



CREATE DATABASE Udacity_HUB;

- npx db-migrate create Session_lead --file-sql
 - CREATE TABLE Session_lead (id SERIAL PRIMARY KEY, name VARCHAR(100));
- npx db-migrate create groups --file-sql
 - CREATE TABLE groups (id SERIAL PRIMARY KEY, SL_ID INT references session lead(id));
- npx db-migrate create Students --file-sql
 - CREATE TABLE Students (id SERIAL PRIMARY KEY, name VARCHAR(200), groups_ID INT references Groups(id));
- · npx db-migrate create session --file-sql
 - CREATE TABLE session (id SERIAL PRIMARY KEY, name VARCHAR(200),date DATE, groups ID INT references Groups(id));
- Npx db-migrate up

```
Adding some data for test
```

```
insert into session_lead (name) Values (Hossam ');
insert into session_lead (name) Values ('Elzanaty');
insert into groups (SL_ID) Values (1);
insert into groups (SL_ID) Values (1);
insert into groups (SL_ID) Values (2);
insert into students (name, groups_id) VALUES ('ST_1', 1);
insert into students (name, groups_id) VALUES ('ST_2', 1);
insert into students (name, groups_id) VALUES ('ST_3', 1);
insert into students (name, groups_id) VALUES ('ST_3', 1);
```

```
insert into students (name, groups_id) VALUES ('ST_5', 1);
insert into students (name, groups id) VALUES ('ST 6', 2);
insert into students (name, groups_id) VALUES ('ST_7', 2);
insert into students (name, groups_id) VALUES ('ST_8', 2);
insert into students (name, groups id) VALUES ('ST 9', 2);
insert into students (name, groups id) VALUES ('ST 10', 2);
insert into students (name, groups_id) VALUES ('ST_11', 2);
insert into students (name, groups id) VALUES ('ST 12', 2);
insert into students (name, groups_id) VALUES ('ST_13', 3);
insert into students (name, groups_id) VALUES ('ST_14', 3);
insert into students (name, groups_id) VALUES ('ST_15', 3);
insert into session (name, date, groups_id) Values ('session1', '7/21/2022', 1);
insert into session (name, date, groups id) Values ('session2', '7/22/2022', 2);
insert into session (name, date, groups_id) Values ('session3', '7/22/2022', 3);
insert into session (name, date, groups id) Values ('session4', '7/22/2022', 3);
To select Data use this command:
select session.name as "Session", session.date, session lead.name as "Session-Lead",
students.name as "Student" from session inner join Groups on session. Groups id= groups. ID
inner join students on Groups.ID = students.Groups_ID inner join session_lead on
Groups.SL ID = session lead.ID
result;
Session | date | Session-Lead | Student
-----+----+----
session1 | 2022-07-21 | Hossam | ST_5
session1 | 2022-07-21 | Hossam
                                  | ST 4
```

```
session1 | 2022-07-21 | Hossam
                                  | ST_3
session1 | 2022-07-21 | Hossam
                                  | ST_2
session1 | 2022-07-21 | Hossam
                                  | ST_1
session2 | 2022-07-22 | Hossam
                                  | ST_12
session2 | 2022-07-22 | Hossam
                                  | ST_11
session2 | 2022-07-22 | Hossam
                                  | ST_10
session2 | 2022-07-22 | Hossam
                                  | ST_9
session2 | 2022-07-22 | Hossam
                                  | ST_8
session2 | 2022-07-22 | Hossam
                                  | ST_7
session2 | 2022-07-22 | Hossam
                                  | ST_6
session4 | 2022-07-22 | Elzanaty
                                  | ST_15
session3 | 2022-07-22 | Elzanaty
                                  | ST_15
session4 | 2022-07-22 | Elzanaty
                                  | ST_14
session3 | 2022-07-22 | Elzanaty
                                  | ST_14
session4 | 2022-07-22 | Elzanaty
                                  | ST_13
session3 | 2022-07-22 | Elzanaty
                                  | ST_13
(18 rows)
```

[Ahmed Heaba]