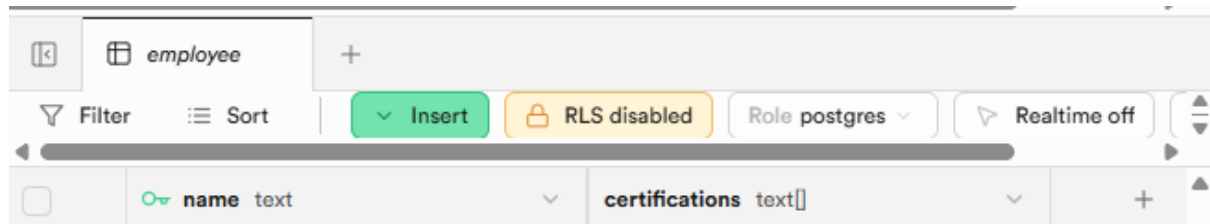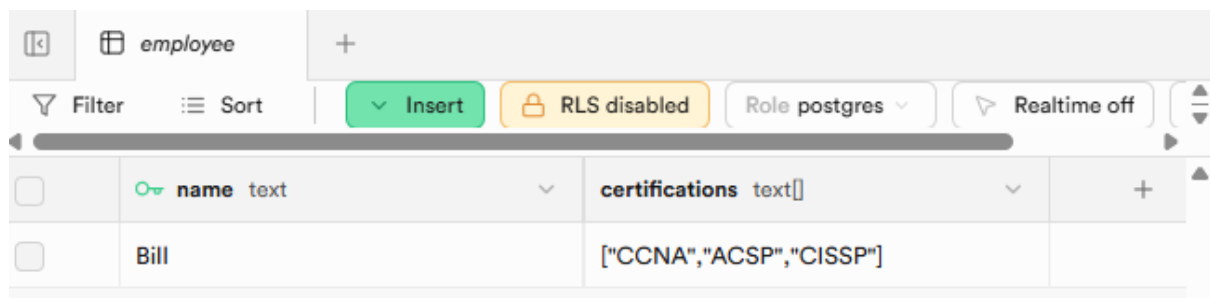Aluno: João Leonardo Vilar Ferreira
Matrícula: 20220060685

1- CREATE TABLE employee (name TEXT PRIMARY KEY, certifications TEXT[]);

2- INSERT INTO employee VALUES ('Bill', '{"CCNA", "ACSP", "CISSP"}');

3- SELECT name FROM employee WHERE certifications @> '{ACSP}';

name	certifications
Bill	["CCNA","ACSP","

4- SELECT name FROM employee WHERE certifications @> '{ACSP}';

name
Bill

5- SELECT certifications[1] FROM employee;

certification
CCNA

6- SELECT unnest(certifications) FROM employee;

unnest
CCNA
ACSP
CISSP

7- SELECT name, unnest(certifications) FROM employee;

name	unnest
Bill	CCNA
Bill	ACSP
Bill	CISSP

8- SELECT DISTINCT relkind FROM pg_class ORDER BY 1;

```
28
29   SELECT DISTINCT relkind
30   FROM pg_class
31   ORDER BY 1;
```
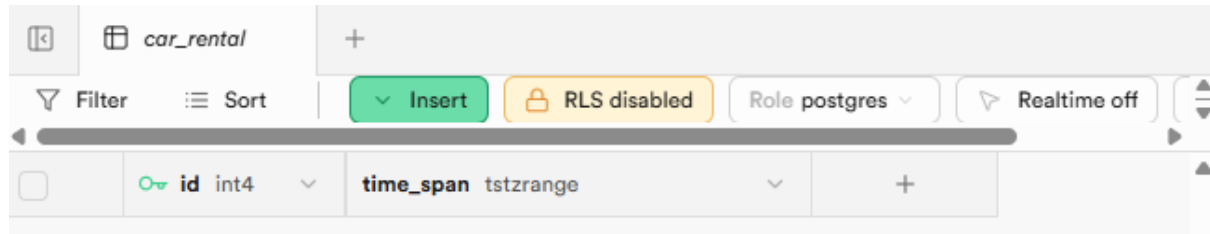
Results   Chart   Export ∨

relkind
I
S
c
i
p
r
t
v

9- SELECT array_agg(DISTINCT relkind) FROM pg_class;

array_agg
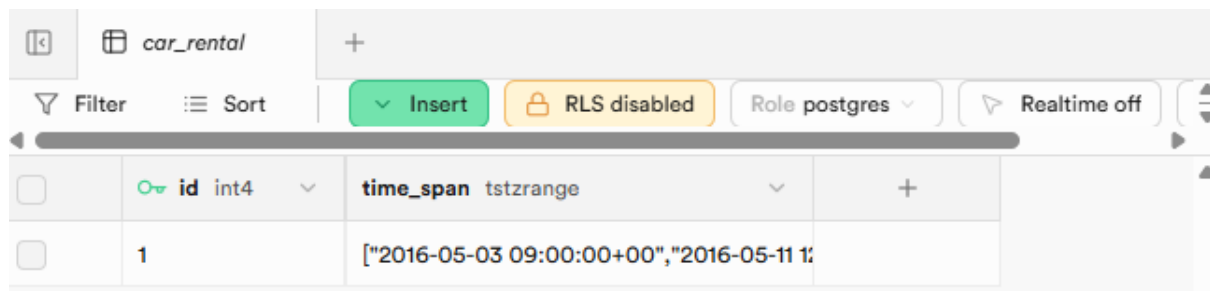
{I,S,c,i,p,r,t,v}

10- CREATE TABLE car_rental (id SERIAL PRIMARY KEY, time_span TSTZRANGE);

	⊞ car_rental	+				
▽ Filter	≔ Sort		∨ Insert	🔒 RLS disabled	Role postgres ∨	▷ Realtime off
☐	O⊸ **id** int4 ∨	**time_span** tstzrange ∨	+			

11- INSERT INTO car_rental VALUES (DEFAULT, '[2016-05-03 09:00:00, 2016-05-11 12:00:00)');

	⊞ car_rental	+				
▽ Filter	≔ Sort		∨ Insert	🔒 RLS disabled	Role postgres ∨	▷ Realtime off
☐	O⊸ **id** int4 ∨	**time_span** tstzrange ∨	+			
☐	1	["2016-05-03 09:00:00+00","2016-05-11 1:				

12- SELECT * FROM car_rental WHERE time_span @> '2016-05-09 00:00:00'::timestamptz;

id	time_span
1	["2016-05-03 09:00:00+00","2016-05-11 12:00:00+00")

13- SELECT * FROM car_rental WHERE time_span @> '2018-06-09 00:00:00'::timestamptz;

```
45
46   SELECT *
47   FROM car_rental
48   WHERE time_span @> '2018-06-09 00:00:00'::timestamptz;
49
50   INSERT INTO car_rental (time_span)
51   SELECT tstzrange(y, y + '1 day')
52   FROM generate_series('2001-09-01 00:00:00'::timestamptz,
```

Results   Chart   Export ∨   ⋮   Source   Primary Database ∨

Success. No rows returned

14- SELECT * FROM car_rental WHERE time_span @> '2007-08-01 00:00:00'::timestamptz;

id	time_span
2162	["2007-08-01 00:00:00+00","2007-08-02 00:00:00+00")

15- SELECT * FROM dart LIMIT 5;

dartno	location
1	(91.0595769629883,2.67997993872775)
2	(5.16521278381765,9.06937649995094)
3	(17.8294563413496,98.84898140779)
4	(15.6936999608812,60.9556882400147)
5	(66.1047905982678,43.2721948527212)

16- SELECT * FROM dart WHERE location <@ '<(50, 50), 4>'::circle;

dartno	location
27	(48.3895702927725,52.5102850460247)
604	(49.4859324208282,52.7175323007126)
962	(50.4035040728456,49.0334283434399)

17- SELECT * FROM dart ORDER BY location <-> '(50, 50)'::point LIMIT 2;

dartno	location
962	(50.4035040728456,49.0334283434399)
604	(49.4859324208282,52.7175323007126)