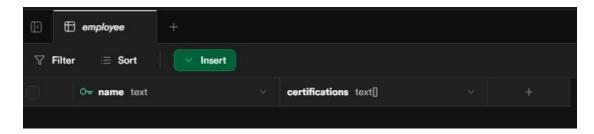
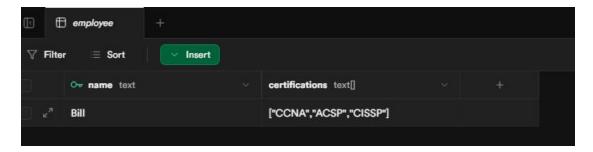
1) CREATE TABLE employee (name TEXT PRIMARY KEY, certifications TEXT[]);



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



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



4) SELECT certifications[1] FROM employee;



5) SELECT unnest(certifications) FROM employee;



6) SELECT name, unnest(certifications) FROM employee;



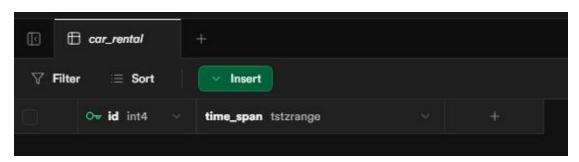
7) SELECT DISTINCT relkind FROM pg\_class ORDER BY 1;



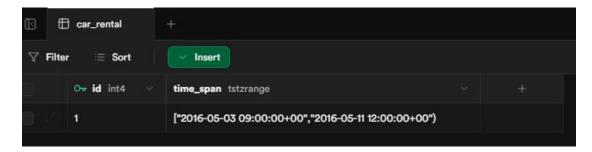
8) SELECT array\_agg(DISTINCT relkind) FROM pg\_class;



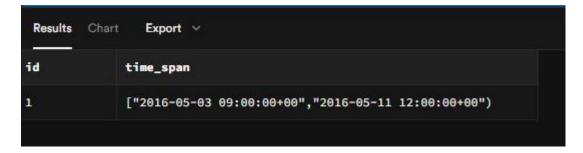
9) CREATE TABLE car\_rental (id SERIAL PRIMARY KEY, time\_span TSTZRANGE);



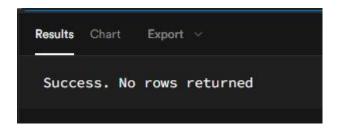
10) INSERT INTO car\_rental VALUES (DEFAULT, '[2016-05-03 09:00:00, 2016-05-11 12:00:00)');



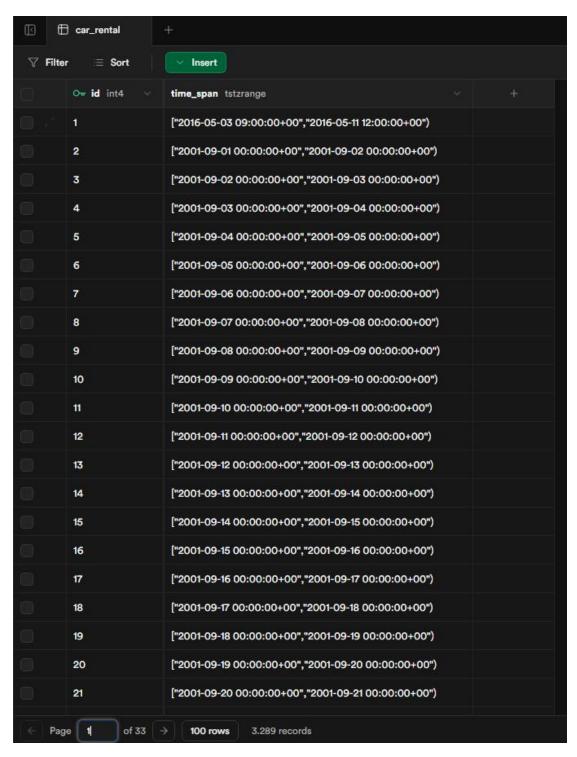
11) SELECT \* FROM car\_rental WHERE time\_span @> '2016-05-09 00:00:00'::timestamptz;



12) SELECT \* FROM car\_rental WHERE time\_span @> '2018-06-09 00:00:00'::timestamptz;



13) INSERT INTO car\_rental (time\_span) SELECT tstzrange(y, y + '1 day') FROM generate\_series('2001-09-01 00:00:00'::timestamptz, '2010-09-01 00:00:00'::timestamptz, '1 day') AS x(y);



14) SELECT \* FROM car\_rental WHERE time\_span @> '2007-08-01 00:00:00'::timestamptz;

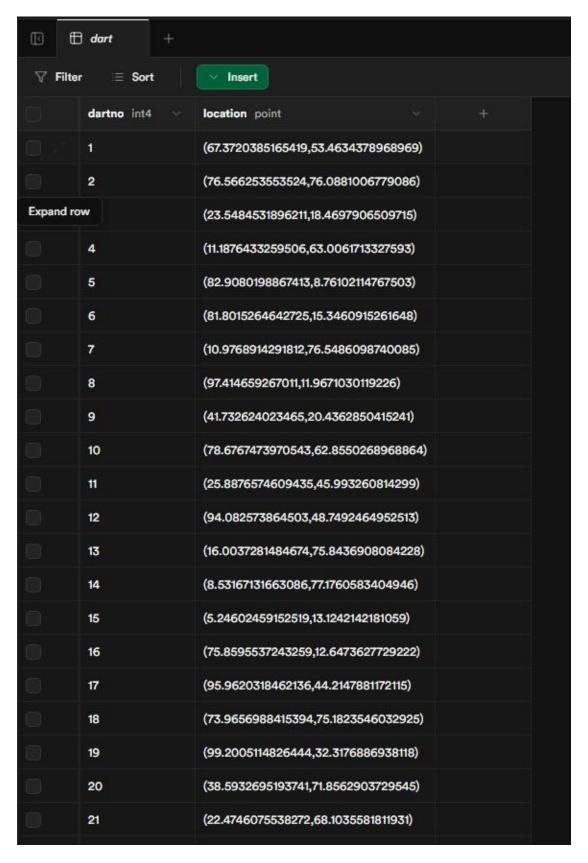


- 15) ALTER TABLE car\_rental ADD EXCLUDE USING GIST (time\_span WITH &&);
- 16) INSERT INTO car\_rental VALUES (DEFAULT, '[2003-04-01 00:00:00, 2003-04-01 00:00:01)');



17) CREATE TABLE dart (dartno SERIAL, location POINT);

18) INSERT INTO dart (location) SELECT CAST('(' || random() \* 100 || ',' || random() \* 100 || ')' AS point) FROM generate\_series(1, 1000);



## 19) SELECT \* FROM dart LIMIT 5;

ALL L	1 7 3 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
dartno	location	
1	(67.3720385165419,53.4634378968969)	
2	(76.566253553524,76.0881006779086)	
3	(23.5484531896211,18.4697906509715)	
4	(11.1876433259506,63.0061713327593)	
5	(82.9080198867413,8.76102114767503)	

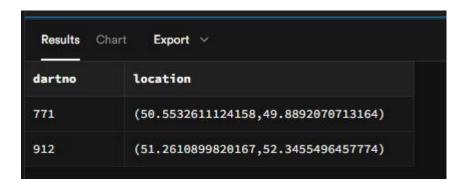
20) SELECT \* FROM dart WHERE location <@ '<(50, 50), 4>'::circle;

dartno	location
771	(50.5532611124158,49.8892070713164)
826	(53.2349183013551,47.8691848944745)
912	(51.2610899820167,52.3455496457774)

- 21) CREATE INDEX dart\_idx ON dart USING GIST (location);
- 22) SELECT \* FROM dart WHERE location <@ '<(50, 50), 4>'::circle;

Results Ch	art Export V
dartno	location
826	(53.2349183013551,47.8691848944745)
771	(50.5532611124158,49.8892070713164)
912	(51.2610899820167,52.3455496457774)

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



- 24) CREATE TABLE printer (doc XML);
- 25) COPY printer from '/tmp/foomatic.xml';



- 26) SELECT (xpath('/option/arg\_shortname/en', doc)) FROM printer LIMIT 5;
- 27) CREATE TABLE friend (id SERIAL, data JSON);