Table of Contents

Add geometry with X,Y columns 1
Auto regenerate X,Y while inserting 1
Read Only schema 1
Buffer point using SQL 1

Add geometry with X,Y columns

```
ALTER TABLE your_table ADD COLUMN geom geometry(Point, 4326);
UPDATE your_table SET geom = ST_SetSRID(ST_MakePoint(longitude, latitude), 4326);
```

Auto regenerate X,Y while inserting

PostgreSQL 12+

```
ALTER TABLE test ADD COLUMN geom geometry(Point,5514) GENERATED ALWAYS AS
(ST_SetSRID(ST_MakePoint(jtsk_x, jtsk_y), 5514)) STORED
```

```
CREATE TABLE table(
    ...
    geom geometry(Point,4326) GENERATED ALWAYS AS (ST_SetSRID(ST_MakePoint(longitude,
latitude), 4326)) STORED
);
```

Read Only schema

```
GRANT SELECT ON ALL TABLES IN SCHEMA public TO username;
ALTER DEFAULT PRIVILEGES IN SCHEMA public GRANT SELECT ON TABLES TO username;
```

Buffer point using SQL

1000 meters - keep SJTSK in meters then convert it to WGS84

```
SELECT id,ST_Transform(ST_Buffer(ST_Transform(shape,5514),1000),4326) FROM table
```

From:
https://wiki.janforman.com/ - **wiki.janforman.com**

Permanent link:
https://wiki.janforman.com/gis:postgis

Last update: **2022/05/06 11:50**