Projet Cassandra

Requêtes de définition des données

- Création de la table

//station_id c'est la clé de partition , et add_date c'est la clé du clustering

```
CREATE TABLE IF NOT EXISTS meteo (
station_id uuid,
longitude float,
latitude float,
add_date timestamp.
temperature float,
humidite float,
PRIMARY KEY (station_id,add_date)
)
```

- Insertion de données

```
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (1,48.01,2.47 ,'2018-12-20 23:59:59' ,11.9 ,0.94);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (1,42.01,2.47 ,'2018-12-20 20:59:59' ,15 ,0.79);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (1,45.01,3.47 ,'2018-12-15 21:00:50' ,13 ,0.85);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (1, 50.01, 2.47 ,'2018-11-15 21:00:00' ,7 ,0.98);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (1, 52.01, 2.47 ,'2018-11-01 14:00:00' ,17 ,0.75);

INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (2, 47.62,1.75 ,'2018-12-1 22:00:00' ,9.8 ,0.95);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (2, 47.02,1.83 ,'2018-12-1 13:50:00' ,9.9 ,0.96);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (2, 47.98,1.02 ,'2018-12-2 18:30:00' ,10.3 ,0.80);
```

```
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (2, 47.38, 1.89 ,'2018-12-2 17:40:00' ,10.4 ,0.81);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (2, 47.09, 1.48 ,'2018-12-2 13:00:00' ,10.3 ,0.82);

INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (3, 47.39, 3.52 , '2018-01-17 20:10:00' ,7.7 ,0.95);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (3 , 47.45, 3.43 ,'2018-1-01 20:10:00' ,7.8 ,0.95);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (3, 47.02, 3.09 ,'2018-1-02 21:13:00' ,7.7 ,0.94);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (3, 47.09, 3.03 ,'2018-1-03 15:19:00' ,7.8 ,0.93);
INSERT INTO meteo
        (station_id, longitude, latitude, add_date, temperature, humidite)
    VALUES (3, 47.43, 3.55 , '2018-10-17 16:08:00' ,7.9 ,0.99);
```

Requêtes de manipulation des données

•Récupération des mesures pour un identifiant de station météo donnée

```
select * from meteo where station_id=2;
```

•Récupération des mesures pour un identifiant de station météo donnée et une plage de temps donnée (Janvier 2018 de la station 3)

```
select * from meteo where station_id=3 and added_date >= '2018-01-01 00:00:00+0000' and added_date < '2018-02-01 00:00:00+0000';
```