Assignment 3

name: 刘乐奇 **SID**: 12011327

1

```
The latitude of Convention and Exhibition Center Station station is: 22.5375

The latitude of Civic Center station is: 22.54444

The latitude of Children's Palace station is: 22.550278

The latitude of Futian Checkpoint station is: 22.5182

The latitude of Fumin station is: 22.5258

The latitude of Lianhua North station is: 22.56083

The latitude of Shangmeilin station is: 22.57028

The latitude of Minle station is: 22.59389

The latitude of Baishilong station is: 22.60139

The latitude of Shenzhen North Station station is: 22.61194
```

2

```
on l.station_id = s.station_id
order by line_id, station_id;
```

3

```
select line_id,
       chinese_name
from stations as sta
         join (select max(cnt) over () max_cnt,
                      cnt,
                      line_id,
                      station_id,
                      num
               from (select line_id,
                            station_id,
                            count(*) over (partition by line_id) cnt
                     from line_detail) tmp
) t
              on t.station_id = sta.station_id
                  and max_cnt = cnt
                  and num = 1;
```



4

```
select year,
     events
from (select opening as year, 'The line ' || line_id || ' opened' as events
     from lines
     where opening between 2008 and 2021
     union all
     select latest_extension as year, 'The line ' || line_id || ' extended' as
events
     from lines
     where latest_extension between 2008 and 2021) t
order by year;
```

5

```
select station_id
from line_detail
where line_id = '1'
except
(select station_id
from line_detail
where line_id = '2')
order by station_id;
```

