

# Assignment 4

## Q.1

```
1 SELECT s.district, COUNT(*), RANK() OVER (ORDER BY COUNT(*) DESC) AS cnt_rank
2 FROM line_detail l JOIN stations s ON l.station_id = s.station_id
3 WHERE l.line_id = 1
4 GROUP BY s.district
5 ORDER BY cnt_rank;
```

	district	count	cnt_rank
1	Futian	9	1
2	Nanshan	9	1
3	Bao'an	8	3
4	Luohu	4	4

## Q.2

```
1 SELECT s.district, COUNT(DISTINCT l.line_id),
2     RANK() OVER (ORDER BY COUNT(DISTINCT l.line_id) DESC) AS cnt_rank
3 FROM stations s JOIN line_detail l ON l.station_id = s.station_id
4 WHERE s.district IS NOT NULL AND s.district <> ''
5 GROUP BY s.district
6 ORDER BY cnt_rank;
```

	district	count	cnt_rank
1	Futian	7	1
2	Luohu	7	1
3	Nanshan	6	3
4	Bao'an	3	4
5	Longgang	2	5
6	Longhua	2	5

## Q.3

```
1 WITH filt AS (
2     SELECT station_id, COUNT(*) cnt
3     FROM bus_lines
4     GROUP BY station_id
5     HAVING COUNT(*) >= 10
6 )
7 SELECT line_id, station_id, cnt
```

```

8 FROM line_detail NATURAL JOIN filt
9 ORDER BY line_id, cnt, station_id DESC
10 OFFSET 15 LIMIT 10;

```

	line_id	station_id	cnt
1	1	1	44
2	1	16	45
3	1	2	48
4	1	18	49
5	1	17	52
6	1	15	55
7	1	12	59
8	2	62	10
9	2	59	10
10	2	63	11

## Q.4

```

1 SELECT CASE
2     WHEN m.country IN ('kr', 'hk') THEN surname || ' ' || COALESCE(first_name, '')
3     ELSE COALESCE(first_name, '') || ' ' || surname
4     END AS name
5 FROM movies m
6     JOIN credits c ON m.movieid = c.movieid
7     JOIN people p ON c.peopleid = p.peopleid
8 WHERE m.year_released = 2016
9     AND m.country IN ('kr', 'hk', 'gb', 'ph')
10    AND c.credited_as = 'D'
11 ORDER BY name;

```

	name
1	Amma Asante
2	Andrea Arnold
3	Cheang Pou-soi
4	Cho Ui-seok
5	Colm MacCarthy
6	Geng Jun
7	Hur Jin-ho
8	Joyce Bernal
9	Ken Loach
10	Kim Jee-woon
11	Kim Seong-hun
12	Lav Diaz
13	Lee John H.
14	Na Hong-jin
15	Park Heung-sik
16	Stephen Frears
17	Susanna White

## Q. 5

```
1 WITH filt AS (SELECT m.movieid,
2                 m.title,
3                 COUNT(*) AS cnt,
4                 RANK() OVER (ORDER BY COUNT(*) DESC) rk
5 FROM movies m
6      JOIN credits c ON m.movieid = c.movieid
7      JOIN (SELECT * FROM people WHERE born >= 2000) p ON c.peopleid = p.
8              peopleid
9 WHERE m.year_released >= 2000
10      AND c.credited_as = 'A'
11      GROUP BY m.movieid, m.title)
12 SELECT movieid, title, cnt
13 FROM filt
14 WHERE rk = 1;
```

1 row		
	movieid	title
1	7470	Jiā Nián Huá