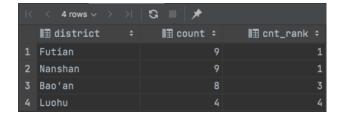
何泽安 (He Zean) 12011323 Dec. 19, 2021

Assignment 4

Q. 1

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



Q. 2

```
SELECT s.district, COUNT(DISTINCT l.line_id),

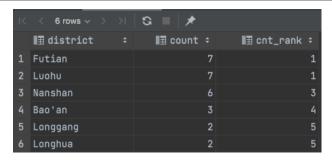
RANK() OVER (ORDER BY COUNT(DISTINCT l.line_id) DESC) AS cnt_rank

FROM stations s JOIN line_detail l ON l.station_id = s.station_id

WHERE s.district IS NOT NULL AND s.district <> ''

GROUP BY s.district

ORDER BY cnt_rank;
```



Q. 3

```
WITH filt AS (
    SELECT station_id, COUNT(*) cnt

FROM bus_lines
GROUP BY station_id
HAVING COUNT(*) >= 10
)
SELECT line_id, station_id, cnt
```

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

I<	< 10 rows ~ > >	ଓ ■ 🖈	
	I ≣ line_id ÷	■ station_id ÷	III 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

```
SELECT CASE

WHEN m.country IN ('kr', 'hk') THEN surname | | ' ' | | | COALESCE(first_name, '')

ELSE COALESCE(first_name, '') | | ' ' | | | surname

END AS name

FROM movies m

JOIN credits c ON m.movieid = c.movieid

JOIN people p ON c.peopleid = p.peopleid

WHERE m.year_released = 2016

AND m.country IN ('kr', 'hk', 'gb', 'ph')

AND c.credited_as = 'D'

ORDER BY name;
```



Q. 5

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

