1. INTO OUTFILE '1.sql'

SELECT count(\*) cnt

FROM search\_trend

WHERE cold > 0.2;

2. INTO OUTFILE '2.sql'

SELECT DISTINCT infection\_case

FROM patient\_info

WHERE province = 'Seoul' AND city = 'Gangnam-gu' AND age < 30 AND sex = 'male'

ORDER BY infection\_case ASC;

3. INTO OUTFILE '3.sql'

SELECT DISTINCT province, city, elementary\_school\_count cnt

FROM region

WHERE province != city

ORDER BY elementary\_school\_count DESC

Limit 3;

4. INTO OUTFILE '4.sql'

SELECT A1.province province, COUNT(\*) cnt

FROM region A1, weather A2

WHERE A1.province = A1.city AND A1.code = A2.code AND A2.avg\_relative\_humidity > 70 AND A2.date >= '2016-05-01' AND A2.date<='2016-05-31'

GROUP BY A1.province

ORDER BY COUNT(\*) DESC

Limit 3;

5. INTO OUTFILE '5.sql'

SELECT a2.province, a2.date

FROM (select \*

FROM region

WHERE province = city) a1,

(select \* from time\_province t where t.confirmed = (

select max(confirmed) from time\_province where t.province = province

) order by province) a2

WHERE a1.province = a2.province AND a1.elderly\_population\_ratio > (select avg(elderly\_population\_ratio) FROM region WHERE province = city)

ORDER BY a2.date;

6. INTO OUTFILE '6.sql'

SELECT a2.date, ROUND(a1.coronavirus, 2) coronavirus, confirmed confirmed\_accumulate, confirmed-LAG(a2.confirmed, 1)OVER(

ORDER BY a2.date

) confirmed\_add, deceased dead\_accumulate, deceased-LAG(a2.deceased, 1)OVER(

ORDER BY a2.date

) dead\_add

FROM (select \*

from search\_trend t

where t.coronavirus > (select STD(coronavirus) from search\_trend WHERE date BETWEEN '2019-12-25' AND '2020-06-29')\*2+(select avg(coronavirus) from search\_trend WHERE date BETWEEN '2019-12-25' AND '2020-06-29')

order by date) a1,

time a2

WHERE a1.date = a2.date;

7. INTO OUTFILE '7.sql'

select a2.preferred\_foot, ROUND(avg(a2.long\_shots), 2) avg\_long\_shots

from

(select home\_player\_1

, home\_player\_2

, home\_player\_3

, home\_player\_4

, home\_player\_5

, home\_player\_6

, home\_player\_7

, home\_player\_8

, home\_player\_9

, home\_player\_10

, home\_player\_11

, away\_player\_1

, away\_player\_2

, away\_player\_3

, away\_player\_4

, away\_player\_5

, away\_player\_6

, away\_player\_7

, away\_player\_8

, away\_player\_9

, away\_player\_10

, away\_player\_11

from match\_info where season = '2015/2016' AND league\_id = (select id from league where name = 'Italy Serie A')) a1,

(select player\_api\_id, preferred\_foot, long\_shots , max(date) from player\_attributes group by player\_api\_id) a2

where a1.home\_player\_1 = a2.player\_api\_id

or a1.home\_player\_2 = a2.player\_api\_id

or a1.home\_player\_3 = a2.player\_api\_id

or a1.home\_player\_4 = a2.player\_api\_id

or a1.home\_player\_5 = a2.player\_api\_id

or a1.home\_player\_6 = a2.player\_api\_id

or a1.home\_player\_7 = a2.player\_api\_id

or a1.home\_player\_8 = a2.player\_api\_id

or a1.home\_player\_9 = a2.player\_api\_id

or a1.home\_player\_10 = a2.player\_api\_id

or a1.home\_player\_11 = a2.player\_api\_id

or a1.away\_player\_1 = a2.player\_api\_id

or a1.away\_player\_2 = a2.player\_api\_id

or a1.away\_player\_3 = a2.player\_api\_id

or a1.away\_player\_4 = a2.player\_api\_id

or a1.away\_player\_5 = a2.player\_api\_id

or a1.away\_player\_6 = a2.player\_api\_id

or a1.away\_player\_7 = a2.player\_api\_id

or a1.away\_player\_8 = a2.player\_api\_id

or a1.away\_player\_9 = a2.player\_api\_id

or a1.away\_player\_10 = a2.player\_api\_id

or a1.away\_player\_11 = a2.player\_api\_id

group by a2.preferred\_foot;

8. INTO OUTFILE '8.sql'

SELECT a4.name name, a3.cnt/(a1.cnt+a2.cnt) prob

from

(select league\_id, count(\*) cnt

from match\_info

where

( home\_player\_1

+ home\_player\_2

+ home\_player\_3

+ home\_player\_4

+ home\_player\_5

+ home\_player\_6

+ home\_player\_7

+ home\_player\_8

+ home\_player\_9

+ home\_player\_10

+ home\_player\_11)/11 > 180

OR

( away\_player\_1

+ away\_player\_2

+ away\_player\_3

+ away\_player\_4

+ away\_player\_5

+ away\_player\_6

+ away\_player\_7

+ away\_player\_8

+ away\_player\_9

+ away\_player\_10

+ away\_player\_11)/11 >180

group by league\_id) a1,

(select league\_id, count(\*) cnt

from match\_info

where

( home\_player\_1

+ home\_player\_2

+ home\_player\_3

+ home\_player\_4

+ home\_player\_5

+ home\_player\_6

+ home\_player\_7

+ home\_player\_8

+ home\_player\_9

+ home\_player\_10

+ home\_player\_11)/11 > 180

AND

( away\_player\_1

+ away\_player\_2

+ away\_player\_3

+ away\_player\_4

+ away\_player\_5

+ away\_player\_6

+ away\_player\_7

+ away\_player\_8

+ away\_player\_9

+ away\_player\_10

+ away\_player\_11)/11 >180

group by league\_id) a2,

( select league\_id, count(\*) cnt

from match\_info

where

( home\_player\_1

+ home\_player\_2

+ home\_player\_3

+ home\_player\_4

+ home\_player\_5

+ home\_player\_6

+ home\_player\_7

+ home\_player\_8

+ home\_player\_9

+ home\_player\_10

+ home\_player\_11)/11 > 180 AND home\_team\_score > away\_team\_score

OR

( away\_player\_1

+ away\_player\_2

+ away\_player\_3

+ away\_player\_4

+ away\_player\_5

+ away\_player\_6

+ away\_player\_7

+ away\_player\_8

+ away\_player\_9

+ away\_player\_10

+ away\_player\_11)/11 >180 AND home\_team\_score < away\_team\_score

group by league\_id) a3,

(select id, name from league) a4

where

a1.league\_id = a2.league\_id AND

a2.league\_id = a3.league\_id AND

a3.league\_id = a4.id;

9.

SELECT b4.team\_long\_name, max(ROUND((((a1.cnt+a2.cnt)\*2)+(c2.cnt+c1.cnt))/(d1.cnt+d2.cnt), 2)) avg\_win\_score

from

(select home\_team\_id team\_id, count(\*) cnt

from match\_info

where

home\_team\_score > away\_team\_score AND season = '2015/2016'

group by home\_team\_id)a1,

(select away\_team\_id team\_id, count(\*) cnt

from match\_info

where

home\_team\_score < away\_team\_score AND season = '2015/2016'

group by away\_team\_id)a2,

(select away\_team\_id team\_id, count(\*) cnt

from match\_info

where

home\_team\_score = away\_team\_score AND season = '2015/2016'

group by away\_team\_id)c2,

(select home\_team\_id team\_id, count(\*) cnt

from match\_info

where

home\_team\_score = away\_team\_score AND season = '2015/2016'

group by home\_team\_id)c1,

(select away\_team\_id team\_id, count(\*) cnt

from match\_info

where season = '2015/2016'

group by away\_team\_id)d2,

(select home\_team\_id team\_id, count(\*) cnt

from match\_info

where season = '2015/2016'

group by home\_team\_id)d1,

team b4

where a1.team\_id = a2.team\_id AND

c1.team\_id = c2.team\_id AND

d1.team\_id = d2.team\_id AND

a1.team\_id = c1.team\_id AND

a1.team\_id = d1.team\_id AND

a1.team\_id = b4.id

group by b4.id

order by avg\_win\_score DESC

Limit 5;