

-- BASIC SELECT AND WHERE

1. <https://leetcode.com/problems/big-countries/>

select name ,population,area from world where area>=3000000 or population>=25000000;

2. <https://leetcode.com/problems/article-views-i/description/>

select distinct(author\_id) as id from views where author\_id=viewer\_id order by author\_id;

-- CONDITION FILTERING

1. <https://leetcode.com/problems/not-boring-movies/>

SELECT \* FROM Cinema WHERE

**MOD(id, 2) = 1** AND description != 'boring'

ORDER BY rating DESC;

2. <https://leetcode.com/problems/find-customer-referee/>

select name from Customer where referee\_id!=2 or referee\_id is null;

3. <https://leetcode.com/problems/triangle-judgement/>

SELECT \*, IF(x+y>z and y+z>x and z+x>y, "Yes", "No") as triangle FROM Triangle

4. <https://leetcode.com/problems/recyclable-and-low-fat-products/>

Select product\_id from products where low\_fats='Y' and recyclable='y';

5. <https://leetcode.com/problems/calculate-special-bonus/>

SELECT employee\_id, IF(name **NOT LIKE "M%"** AND **employee\_id%2 <> 0**, salary, 0) AS bonus FROM Employees ORDER BY employee\_id

6. <https://leetcode.com/problems/the-latest-login-in-2020/description/>

select user\_id, max(time\_stamp) as last\_stamp from logins where year(time\_Stamp)=2020' group by user\_id ;

-- BASIC JOINS

1. <https://leetcode.com/problems/combine-two-tables/>

select p.firstName, p.lastName, a.city, a.state from person p left join address a on p.personId=a.personId;

2. <https://leetcode.com/problems/product-sales-analysis-i/description/>

select p.product\_name, s.year, s.price from Sales s inner join Product p on s.product\_id=p.product\_id;

3. <https://leetcode.com/problems/employee-bonus/>

select e.name, b.bonus from employee e left join bonus b on e.empId=b.empId where b.bonus<1000 or bonus is null;

4. <https://leetcode.com/problems/replace-employee-id-with-the-unique-identifier/>  
select u.unique\_id , e.name from employees e left join Employeeuni u on e.id=u.id;

5. <https://leetcode.com/problems/project-employees-i/description/>

SELECT p.project\_id, ROUND(AVG(e.experience\_years),2) AS average\_years FROM Project p  
LEFT JOIN Employee e  
ON p.employee\_id = e.employee\_id GROUP BY p.project\_id

-- BASIC GROUPING

1. <https://leetcode.com/problems/duplicate-emails/>

select email from person group by email having count(email)>1 ;

2. <https://leetcode.com/problems/customer-placing-the-largest-number-of-orders/>

select customer\_number from orders group by customer\_number order by count(order\_number)  
desc limit 1;

3. <https://leetcode.com/problems/classes-more-than-5-students/description/>

select class from courses group by class having count(student)>=5;

4. <https://leetcode.com/problems/actors-and-directors-who-cooperated-at-least-three-times/>

select actor\_id,director\_id from ActorDirector group by actor\_id,director\_id Having  
count(timestamp)>=3;

5. <https://leetcode.com/problems/game-play-analysis-i/description/>

select player\_id, min(event\_date) as first\_login from activity group by player\_id;

6. <https://leetcode.com/problems/daily-leads-and-partners/description/>

select date\_id, make\_name , count(distinct(lead\_id)) as unique\_leads, count(distinct(partner\_id))  
as unique\_partners from DailySales GROUP BY date\_id, make\_name;

7. <https://leetcode.com/problems/find-followers-count/>

select user\_id , count(follower\_id) as followers\_count from followers group by user\_id order by  
user\_id;

8. <https://leetcode.com/problems/find-total-time-spent-by-each-employee/>

select event\_day as day, emp\_id, sum(out\_time-in\_time) as total\_time from employees group by  
emp\_id, event\_day;

9. <https://leetcode.com/problems/odd-and-even-transactions/>

```
SELECT transaction_date,  
       SUM(CASE WHEN amount%2=1 THEN amount ELSE 0 END) as odd_sum,  
       SUM(CASE WHEN amount%2=0 THEN amount ELSE 0 END) as even_sum  
FROM transactions GROUP BY transaction_date ORDER BY transaction_date;
```

-- SELF JOIN

1. <https://leetcode.com/problems/employees-earning-more-than-their-managers/>

```
select e1.name as Employee from Employee e1 inner join Employee e2 where e1.Managerid =  
e2.id and e1.salary > e2.salary;
```

2. <https://leetcode.com/problems/rising-temperature/>

```
SELECT w1.id FROM Weather w1, Weather w2 WHERE DATEDIFF(w1.recordDate,  
w2.recordDate) = 1 AND w1.temperature > w2.temperature;
```

3. <https://leetcode.com/problems/average-time-of-process-per-machine/>

```
select a1.machine_id, round(avg(a2.timestamp-a1.timestamp), 3) as processing_time  
from Activity a1 join Activity a2 on a1.machine_id=a2.machine_id and  
a1.process_id=a2.process_id  
and a1.activity_type='start' and a2.activity_type='end' group by a1.machine_id
```

-- SUBQUERIES

1. <https://leetcode.com/problems/customers-who-never-order/>

```
SELECT name as Customers from Customers where id not in (  
    select customerId from Orders );
```

2. <https://leetcode.com/problems/biggest-single-number/>

```
select max(num) as num from (  
    select num from MyNumbers group by num having count(num)=1) as nums ;
```

3. <https://leetcode.com/problems/sales-person/>

```
SELECT sp.name FROM SalesPerson sp WHERE sp.name NOT IN(
```

```
    SELECT sp.name FROM SalesPerson sp  
    LEFT JOIN Orders o ON sp.sales_id = o.sales_id  
    LEFT JOIN Company c ON o.com_id = c.com_id  
    WHERE c.name = 'Red'  
);
```

4. <https://leetcode.com/problems/primary-department-for-each-employee/>  
SELECT DISTINCT employee\_id, department\_id FROM Employee  
WHERE employee\_id IN (  
    SELECT employee\_id FROM Employee GROUP BY employee\_id HAVING COUNT(\*) = 1)  
OR primary\_flag = 'Y' ORDER BY employee\_id;
5. <https://leetcode.com/problems/employees-whose-manager-left-the-company/>  
SELECT employee\_id FROM Employees WHERE salary < 30000  
AND manager\_id NOT IN (SELECT DISTINCT employee\_id FROM Employees) ORDER BY employee\_id
6. <https://leetcode.com/problems/managers-with-at-least-5-direct-reports/>  
SELECT name FROM Employee WHERE id IN ( SELECT managerId FROM Employee  
GROUP BY managerId HAVING COUNT(\*) >= 5)
7.  
<https://leetcode.com/problems/investments-in-2016/solutions/3670790/best-optimum-solution-with-explanation/>  
SELECT ROUND(SUM(tiv\_2016), 2) AS tiv\_2016 FROM Insurance  
WHERE tiv\_2015 IN (  
    SELECT tiv\_2015 FROM Insurance GROUP BY tiv\_2015 HAVING COUNT(\*) > 1  
)  
AND (lat, lon) IN ( SELECT lat, lon FROM Insurance GROUP BY lat, lon HAVING  
COUNT(\*) = 1)
8. <https://leetcode.com/problems/customers-who-bought-all-products/>  
select customer\_id from Customer group by customer\_id  
having count(distinct product\_key) = (select count(distinct product\_key) from Product)
9. <https://leetcode.com/problems/product-sales-analysis-iii/>  
select product\_id, year as first\_year, quantity, price  
from Sales where (product\_id, year) in (  
    select product\_id, min(year) from Sales group by product\_id)
10. <https://leetcode.com/problems/immediate-food-delivery-ii/>  
select **ROUND(AVG(order\_date - customer\_pref\_delivery\_date) \* 100, 2)** as immediate\_percentage  
from delivery where (customer\_id, order\_date) IN  
(select customer\_id, min(order\_date) as first\_order  
from delivery)

group by customer\_id)

-- DELETE, UPDATE, REFORMAT

1. <https://leetcode.com/problems/delete-duplicate-emails/>

delete p1 from person p1,person p2  
where p1.email=p2.email and p1.id>p2.id;

2. <https://leetcode.com/problems/swap-salary/>

UPDATE salary SET sex = CASE sex  
WHEN 'm' THEN 'f'  
ELSE 'm'  
END;

3. <https://leetcode.com/problems/reformat-department-table/>

SELECT  
id,  
sum( if( month = 'Jan', revenue, null ) ) AS Jan\_Revenue,  
sum( if( month = 'Feb', revenue, null ) ) AS Feb\_Revenue,  
sum( if( month = 'Mar', revenue, null ) ) AS Mar\_Revenue,  
sum( if( month = 'Apr', revenue, null ) ) AS Apr\_Revenue,  
sum( if( month = 'May', revenue, null ) ) AS May\_Revenue,  
sum( if( month = 'Jun', revenue, null ) ) AS Jun\_Revenue,  
sum( if( month = 'Jul', revenue, null ) ) AS Jul\_Revenue,  
sum( if( month = 'Aug', revenue, null ) ) AS Aug\_Revenue,  
sum( if( month = 'Sep', revenue, null ) ) AS Sep\_Revenue,  
sum( if( month = 'Oct', revenue, null ) ) AS Oct\_Revenue,  
sum( if( month = 'Nov', revenue, null ) ) AS Nov\_Revenue,  
sum( if( month = 'Dec', revenue, null ) ) AS Dec\_Revenue  
FROM Department GROUP BY id;

4. <https://leetcode.com/problems/group-sold-products-by-the-date/>

select sell\_date, count( DISTINCT product ) as num\_sold ,  
**GROUP\_CONCAT( DISTINCT product order by product ASC separator ',' )** as products  
FROM Activities GROUP BY sell\_date order by sell\_date ASC;

5. <https://leetcode.com/problems/tree-node-description/>

SELECT id, CASE WHEN p\_id IS NULL THEN 'Root'  
WHEN id IN (SELECT DISTINCT p\_id FROM Tree) THEN 'Inner'  
ELSE 'Leaf' END AS type  
FROM Tree

6. <https://leetcode.com/problems/capital-gainloss/>

```
select stock_name  
, sum(if(operation = 'Buy', -1, 1) * price) as capital_gain_loss  
from stocks  
group by stock_name
```

-- JOIN WITH CONDITIONS/GROUP by having

1. <https://leetcode.com/problems/sales-analysis-iii/>

```
SELECT Product.product_id, Product.product_name FROM Product JOIN Sales ON  
Product.product_id = Sales.product_id  
GROUP BY Sales.product_id HAVING MIN(Sales.sale_date) >= "2019-01-01" AND  
MAX(Sales.sale_date) <= "2019-03-31";
```

2. <https://leetcode.com/problems/average-selling-price/>

```
SELECT p.product_id, IFNULL(ROUND(SUM(units*price)/SUM(units),2),0) AS  
average_price FROM Prices p LEFT JOIN UnitsSold u  
ON p.product_id = u.product_id where u.purchase_date BETWEEN start_date AND end_date  
group by product_id;
```

3. <https://leetcode.com/problems/user-activity-for-the-past-30-days-i/>

```
SELECT activity_date AS day, COUNT(DISTINCT user_id) AS active_users FROM Activity  
WHERE (activity_date > "2019-06-27" AND activity_date <= "2019-07-27") GROUP BY  
activity_date;
```

4. <https://leetcode.com/problems/students-and-examinations/>

```
SELECT st.student_id, st.student_name, su.subject_name, COUNT(e.subject_name) as  
attended_exams  
FROM Students st CROSS JOIN Subjects su LEFT JOIN Examinations e ON st.student_id =  
e.student_id AND su.subject_name = e.subject_name  
GROUP BY st.student_id, su.subject_name ORDER BY student_id, subject_name
```

5. <https://leetcode.com/problems/list-the-products-ordered-in-a-period/>

```
SELECT p.product_name AS product_name, sum(o.unit) AS unit FROM Products p JOIN  
Orders o USING (product_id)  
WHERE YEAR(o.order_date)='2020' AND MONTH(o.order_date)='02' GROUP BY  
p.product_id HAVING SUM(o.unit)>=100
```

6. <https://leetcode.com/problems/top-travellers/>

```
select u.name, if(sum(r.distance) is null, 0, sum(r.distance)) as travelled_distance
from Users u left join Rides r on u.id = r.user_id group by u.id
order by travelled_distance desc ,u.name
```

7. <https://leetcode.com/problems/the-number-of-employees-which-report-to-each-employee/>

```
SELECT emp1.employee_id, emp1.name, COUNT(emp2.employee_id) AS reports_count,
ROUND(AVG(emp2.age)) AS average_age
FROM Employees emp1 INNER JOIN Employees emp2 ON emp1.employee_id =
emp2.reports_to
GROUP BY emp1.employee_id ORDER BY emp1.employee_id
```

8.

<https://leetcode.com/problems/customer-who-visited-but-did-not-make-any-transactions/description/>

```
SELECT v.customer_id, COUNT(v.visit_id) AS count_no_trans from Visits v LEFT JOIN
Transactions t
ON v.visit_id = t.visit_id WHERE t.transaction_id IS NULL GROUP BY v.customer_id;
```

9. <https://leetcode.com/problems/bank-account-summary-ii/description/>

```
select u.name , sum(t.amount) as balance from users u inner join transactions t on
u.account=t.account group by name having balance>10000;
```

10. <https://leetcode.com/problems/percentage-of-users-attended-a-contest/>

```
select contest_id, round(count(distinct user_id) * 100 /(select count(user_id) from Users),2) as
percentage
from Register group by contest_id order by percentage desc,contest_id
```

11. <https://leetcode.com/problems/consecutive-numbers/>

```
SELECT DISTINCT l1.num AS ConsecutiveNums FROM Logs l1
JOIN Logs l2 ON l1.id = l2.id - 1 JOIN Logs l3 ON l1.id = l3.id - 2
WHERE l1.num = l2.num AND l2.num = l3.num;
```

12. <https://leetcode.com/problems/game-play-analysis-iv/description/>

```
WITH temp AS (
```

```
    SELECT player_id, MIN(event_date) AS first_login_date FROM Activity GROUP BY
player_id
)
SELECT
    ROUND(
```

```

        SUM(DATEDIFF(a.event_date, t.first_login_date) = 1) / COUNT(DISTINCT a.player_id),
2
    ) AS fraction
FROM Activity a JOIN temp t ON a.player_id = t.player_id;

```

13. <https://leetcode.com/problems/market-analysis-i/>

```

SELECT u.user_id as buyer_id, u.join_date, count(o.order_id) as 'orders_in_2019'
FROM users u LEFT JOIN Orders o ON o.buyer_id=u.user_id GROUP BY u.user_id HAVING
YEAR(order_date)='2019'

```

14. <https://leetcode.com/problems/confirmation-rate/description/>

```

SELECT s.user_id , ROUND(AVG(IF(c.action="confirmed",1,0)),2) AS confirmation_rate
FROM Signups s LEFT JOIN Confirmations c ON s.user_id = c.user_id GROUP BY s.user_id;

```

-- USING SUM AS COUNTING SPECIFIC QUERIES

1. <https://leetcode.com/problems/queries-quality-and-percentage/>  
select query\_name, round(avg(cast(rating as decimal) / position), 2) as quality,  
**round(sum(case when rating < 3 then 1 else 0 end) \* 100 / count(\*), 2)** as  
poor\_query\_percentage  
from queries group by query\_name;

2. <https://leetcode.com/problems/monthly-transactions-i/description/>

```

SELECT
    LEFT(trans_date, 7) AS month,
    country,
    COUNT(id) AS trans_count,
    SUM(state = 'approved') AS approved_count,
    SUM(amount) AS trans_total_amount,
    SUM((state = 'approved') * amount) AS approved_total_amount
FROM Transactions GROUP BY month, country;

```

3. <https://leetcode.com/problems/trips-and-users/>

```

SELECT
    T.request_at AS 'Day',
    ROUND(
        1-( SUM(T.status='completed')/COUNT(T.id) )
        ,2) AS 'Cancellation Rate'
FROM Trips T JOIN Users C ON T.client_id=C.users_id
JOIN Users D ON T.driver_id=D.users_id

```

```
WHERE D.banned='No' AND C.banned='No' GROUP BY T.request_at HAVING T.request_at
BETWEEN "2013-10-01" AND "2013-10-03"
```

-- STRINGS

1. <https://leetcode.com/problems/find-users-with-valid-e-mails/>

```
SELECT * FROM Users WHERE mail REGEXP
'^[A-Za-z][A-Za-z0-9_\\.\\-]*@leetcode(\\?com)?\\.com$';
```

2. <https://leetcode.com/problems/patients-with-a-condition/>

```
select patient_id,patient_name,conditions from Patients
where conditions like 'DIAB1%' or conditions like '% DIAB1%' ;
```

3.<https://leetcode.com/problems/fix-names-in-a-table/>

```
SELECT Users.user_id ,
CONCAT(UPPER(SUBSTR(Users.name,1,1)),LOWER(SUBSTR(Users.name,2))) AS name
FROM Users
ORDER BY Users.user_id ASC
```

4.<https://leetcode.com/problems/fix-names-in-a-table/>

```
SELECT Users.user_id ,
CONCAT(UPPER(SUBSTR(Users.name,1,1)),LOWER(SUBSTR(Users.name,2))) AS name
FROM Users
ORDER BY Users.user_id ASC
```

5. <https://leetcode.com/problems/invalid-tweets/>

```
select tweet_id from Tweets where CHAR_LENGTH(content) > 15;
```

6. <https://leetcode.com/problems/find-valid-emails/>

```
SELECT user_id, email FROM Users WHERE email LIKE '%.com' AND email REGEXP
'^[a-zA-Z0-9_]+@[a-zA-Z]+\?.com$' ORDER BY user_id;
```

7. <https://leetcode.com/problems/find-invalid-ip-addresses/>

```
SELECT ip, COUNT(log_id) AS invalid_count
FROM (
    SELECT *,
        SUBSTRING_INDEX(ip, '.', 1) AS s1,
        SUBSTRING_INDEX(SUBSTRING_INDEX(ip, '.', 2), '.', -1) AS s2,
        SUBSTRING_INDEX(SUBSTRING_INDEX(ip, '.', 3), '.', -1) AS s3,
```

```
SUBSTRING_INDEX(SUBSTRING_INDEX(ip, '.', 4), '.', -1) AS s4,
LENGTH(ip) - LENGTH(REPLACE(ip, '.', '')) AS cnt
FROM logs) tmp
WHERE s1 > 255 OR s2 > 255 OR s3 > 255 OR s4 > 255
OR LEFT(s1, 1) = 0 OR LEFT(s2, 1) = 0 OR LEFT(s3, 1) = 0 OR LEFT(s4, 1) = 0
OR cnt != 3 GROUP BY ip ORDER BY invalid_count DESC, ip DESC
```

-- UNION/UNION ALL

1. <https://leetcode.com/problems/rearrange-products-table/>

```
SELECT product_id, 'store1' AS store, store1 AS price FROM Products WHERE store1 IS NOT
NULL
UNION
SELECT product_id, 'store2', store2 FROM Products WHERE store2 IS NOT NULL
UNION
SELECT product_id, 'store3', store3 FROM Products WHERE store3 IS NOT NULL
```

2. <https://leetcode.com/problems/employees-with-missing-information/>

```
SELECT T.employee_id FROM
(SELECT * FROM Employees LEFT JOIN Salaries USING(employee_id)
UNION
SELECT * FROM Employees RIGHT JOIN Salaries USING(employee_id))
AS T WHERE T.salary IS NULL OR T.name IS NULL ORDER BY employee_id;
```

3. <https://leetcode.com/problems/friend-requests-ii-who-has-the-most-friends/>

```
SELECT id, COUNT(*) AS num
FROM (
    SELECT requester_id AS id FROM RequestAccepted
    UNION ALL
    SELECT accepter_id FROM RequestAccepted
) AS friends_count
GROUP BY id ORDER BY num DESC LIMIT 1;
```

4. <https://leetcode.com/problems/movie-rating/>

```
(SELECT name AS results
FROM MovieRating JOIN Users USING(user_id)
GROUP BY name
ORDER BY COUNT(*) DESC, name
LIMIT 1)

UNION ALL
```

```
(SELECT title AS results
FROM MovieRating JOIN Movies USING(movie_id)
WHERE EXTRACT(YEAR_MONTH FROM created_at) = 202002
GROUP BY title
ORDER BY AVG(rating) DESC, title
LIMIT 1);
```

#### 5. <https://leetcode.com/problems/count-salary-categories/>

```
SELECT 'Low Salary' as category, COUNT(*) as accounts_count FROM Accounts WHERE
income<20000
UNION
SELECT 'Average Salary', COUNT(*) FROM Accounts WHERE income BETWEEN 20000
AND 50000
UNION SELECT 'High Salary', COUNT(*) FROM Accounts WHERE income > 50000
```

-- RANKING

```
1. https://leetcode.com/problems/second-highest-salary/
WITH CTE AS
(SELECT Salary, DENSE_RANK () OVER (ORDER BY Salary desc) AS RANK_desc
FROM Employee)
SELECT MAX(salary) AS SecondHighestSalary FROM CTE WHERE RANK_desc = 2
```

#### 2. <https://leetcode.com/problems/rank-scores/>

```
SELECT score, DENSE_RANK() OVER(ORDER BY score DESC) as 'rank'
FROM scores
```

#### 3. <https://leetcode.com/problems/department-highest-salary/description/>

```
with new as
(select *, dense_rank() over(partition by departmentId order by salary desc) as rn from
employee)
select d.name as department, new.name as employee , salary from new
join department d on d.id=new.departmentId where rn=1
```

#### 4. <https://leetcode.com/problems/product-price-at-a-given-date/description/>

```
WITH RankedProducts AS (
SELECT product_id, new_price,
RANK() OVER(
PARTITION BY product_id ORDER BY change_date DESC
```

```

) AS `rank`
FROM Products WHERE change_date <= '2019-08-16'
),
ProductToLatestPrice AS (
    SELECT product_id, new_price FROM RankedProducts WHERE `rank` = 1
)
SELECT
    Products.product_id, IFNULL(ProductToLatestPrice.new_price, 10) AS price
FROM Products LEFT JOIN ProductToLatestPrice USING (product_id) GROUP BY
product_id;

```

5. <https://leetcode.com/problems/department-top-three-salaries/>

```

SELECT Department, Employee, Salary
FROM (
SELECT Emp.id,Emp.name AS Employee,Emp.salary AS Salary, Dept.name AS Department,
DENSE_RANK() over (PARTITION BY Emp.departmentId ORDER BY Emp.salary DESC)
AS Salary_Rank
FROM Employee as Emp LEFT JOIN Department Dept
ON Emp.departmentId = Dept.id)AS TMP
WHERE Salary_Rank <= 3

```

-- Window Function

1. <https://leetcode.com/problems/exchange-seats/>

```

SELECT
    id,
    CASE
        WHEN id % 2 = 0 THEN LAG(student) OVER(ORDER BY id)
        ELSE COALESCE(LEAD(student) OVER(ORDER BY id), student)
    END AS student
FROM Seat

```

2. <https://leetcode.com/problems/last-person-to-fit-in-the-bus/>

```

WITH CumulativeSum AS (
    SELECT person_name, SUM(weight) OVER (ORDER BY turn) AS cumulative_sum FROM
Queue
)
SELECT person_name FROM CumulativeSum WHERE cumulative_sum <= 1000 ORDER BY
cumulative_sum DESC LIMIT 1;

```

4. <https://leetcode.com/problems/restaurant-growth/>

```
SELECT visited_on, amount, ROUND(amount/7, 2) average_amount
FROM (
    SELECT DISTINCT visited_on, SUM(amount) OVER(ORDER BY visited_on RANGE
BETWEEN INTERVAL 6 DAY PRECEDING AND CURRENT ROW) amount,
    MIN(visited_on) OVER() 1st_date FROM Customer) t
WHERE visited_on>= 1st_date+6;

SELECT a.visited_on AS visited_on, SUM(b.day_sum) AS amount, ROUND(AVG(b.day_sum),
2) AS average_amount
FROM
    (SELECT visited_on, SUM(amount) AS day_sum FROM Customer GROUP BY visited_on ) a,
    (SELECT visited_on, SUM(amount) AS day_sum FROM Customer GROUP BY visited_on ) b
WHERE DATEDIFF(a.visited_on, b.visited_on) BETWEEN 0 AND 6
GROUP BY a.visited_on
HAVING COUNT(b.visited_on) = 7
```

5. <https://leetcode.com/problems/find-students-who-improved/>

```
WITH CTE AS(
    SELECT student_id, subject,
    FIRST_VALUE(score) OVER(PARTITION BY student_id, subject ORDER BY exam_date)
AS first_score,
    FIRST_VALUE(score) OVER(PARTITION BY student_id, subject ORDER BY exam_date
DESC) AS latest_score
    FROM Scores
)
SELECT DISTINCT * FROM CTE WHERE latest_score > first_score
```

6. <https://leetcode.com/problems/human-traffic-of-stadium/description/>

```
with q1 as (
select *,
    count(*) over( order by id range between current row and 2 following ) following_cnt,
    count(*) over( order by id range between 2 preceding and current row ) preceding_cnt,
    count(*) over( order by id range between 1 preceding and 1 following ) current_cnt
from stadium
where people > 99
)
select id, visit_date, people
from q1
```

where following\_cnt = 3 or preceding\_cnt = 3 or current\_cnt = 3  
order by visit\_date