LeetCode SQL 50

Subqueries



1978. Employees Whose Manager Left the Company

Input:

Employees table:

employee_id	name	manager_id	+ salary
3	Mila	9	60301
12	Antonella	null	31000
13	Emery	null	67084
1	Ka lel	11	21241
9	Mikaela	null	50937
11	Joziah	6	28485
			L

Output:

+----+ | employee_id | +-----+ | 11 |

```
Select
   e.employee_id
From
   Employees e
   Left Join Employees m On e.manager_id = m.employee_id
Where
   e.salary < 30000
   And e.manager_id Is Not Null
   And m.employee_id Is Null
Order By
   e.employee_id;</pre>
```

626. Exchange Seats

Input:

```
Select
  Case
  when id % 2 = 0 then id - 1
  when id % 2 = 1 and id < (select count(*) from seat) then id + 1
  else id end as id,
  student
From Seat
Order By id;</pre>
```

1341. Movie Rating

Input:

Movies table:

title
Avengers Frozen 2 Joker

Users table:

user_id	name	
1	Daniel Monica	İ
3	Maria	i
4	James	- 1

MovieRating table:

movie_id	user_id	rating	created_at
1	1	3	2020-01-12
1	2	4	2020-02-11
1	3	2	2020-02-12
1	4	1	2020-01-01
2	1	5	2020-02-17
2	1 2	1 2	2020-02-01
2	3	2	2020-03-01
3	1 1	3	2020-02-22
3	1 2	1 4	1 2020-02-25

results	1
+	+
Daniel	1
Frozen 2	- 1
I	

```
(Select u.name As results From Users u
Left Join MovieRating r On u.user id=r.user id
Group By u_user id
Order By count(r.rating) DESC, u.name ASC
Limit 1)
Union All
(Select m.title As results From Movies m Join
MovieRating r On m.movie id=r.movie id
Where r.created at LIKE "2020-02-%%"
Group By r.movie id
Order By Avg(r.rating) DESC, m.title ASC
Limit 1);
```

1321. Restaurant Growth

Input:

Customer table:

customer_id	name	visited_on	amount
1	Jhon	2019-01-01	100
2	Daniel	2019-01-02	110
3	Jade	2019-01-03	120
4	Khaled	2019-01-04	130
5	Winston	2019-01-05	110
6	Elvis	2019-01-06	140
7	Anna	2019-01-07	150
8	Maria	2019-01-08	80
9	Jaze	2019-01-09	110
1	Jhon	2019-01-10	130
3	Jade	2019-01-10	150

visited_on	amount	average_amount
2019-01-07 2019-01-08 2019-01-09 2019-01-10	860 840 840 1000	122.86 120 120 142.86

```
WITH dates AS (
    SELECT DISTINCT visited_on
    FROM customer)
SELECT c1.visited_on,
    sum(c2.amount) as amount,
    round(sum(c2.amount) / 7, 2) as average_amount
FROM dates c1
    JOIN customer c2 ON
    datediff(c1.visited_on, c2.visited_on)
    between 0 and 6
WHERE datediff(c1.visited_on,
        (SELECT min(visited_on) FROM customer)) >= 6
GROUP BY c1.visited_on
ORDER BY c1.visited_on;
```

602. Friend Requests II: Who Has the Most Friends

Input:

RequestAccepted table:

+	requester_id	accepter_id	accept_date
	1	2 3	2016/06/03 2016/06/08
	3	4	2016/06/08 2016/06/09

```
+---+
| id | num |
+---+
| 3 | 3 |
```

```
With CTE as

(Select requester_id As id1

From RequestAccepted

Union All

Select accepter_id As id1

From RequestAccepted)

Select id1 As id, count(id1) As num

From CTE

Group By id1

Order by num DESC

Limit 1;
```

585. Investments in 2016

Input:

Insurance table:

pid	tiv_2015	tiv_2016	 lat	+ lon
1	10	5	10	10
2	20	20	20	20
3	10	30	20	20
4	10	40	40	40
4	L	L		

```
+-----+
| tiv_2016 |
+-----+
| 45.00 |
```

```
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)
```

185. Department Top Three Salaries

Department	Employee	Salary
IT IT IT IT	Max Joe Randy Will	90000 85000 85000
Sales Sales	Henry Sam	80000 60000

```
Select
    r.Department, r.Employee, r.Salary
From (Select
          d.name As Department,
          e.name As Employee,
          e.salary,
          DENSE_Rank() OVER (PARTITION BY d.name ORDER BY e.salary DESC) AS rnk
    From Employee e
          Join Department d On e.departmentId = d.id
    ) As r
Where rnk <= 3;</pre>
```