05/15/2022

1581. Customer Who Visited but Did Not Make Any Transactions

Table: Visits

++
Column Name Type
++
visit_id
customer_id int
++
visit_id is the primary key for this table.
This table contains information about the customers who visited the mall.
<pre> visit_id int customer_id int ++ visit_id is the primary key for this table.</pre>

Table: Transactions

```
t-----t
| Column Name | Type |
t-----t
| transaction_id | int |
| visit_id | int |
| amount | int |
t-----t
transaction_id is the primary key for this table.
This table contains information about the transactions made during the visit_id.
```

Write an SQL query to find the IDs of the users who visited without making any transactions and the number of times they made these types of visits.

Return the result table sorted in any order.

MySQL

```
SELECT 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.visit_id IS NULL

GROUP BY customer_id

197. Rising Temperature

Table: Weather

Write an SQL query to find all dates' Id with higher temperatures compared to its previous dates (yesterday).

Return the result table in any order.

MySQL

SELECT w1.id AS Id

FROM Weather w1, Weather w2

WHERE DATEDIFF(w1.recordDate, w2.recordDate) = 1

AND w1.temperature > w2.temperature;

05/16/2022

607. Sales Person

Table: SalesPerson

++				
Column Name Type				
· · · · · · · · · · · · · · · · · · ·				
sales_id				
name				
salary				
commission_rate int				
hire_date				
++				
sales_id is the primary key column for this table.				
Each row of this table indicates the name and the ID of a salesperson alongside their				

Table: Company

salary, commission rate, and hire date.

```
+-----+
| Column Name | Type |
+-----+
| com_id | int |
| name | varchar |
| city | varchar |
+-----+

com_id is the primary key column for this table.

Each row of this table indicates the name and the ID of a company and the city in which the company is located.
```

Table: Orders

Write an SQL query to report the names of all the salespersons who did not have any orders related to the company with the name "**RED**".

Return the result table in any order.

The query result format is in the following example.

```
2 | Amy | 12000 | 5 | 5/1/2010 |
| 3
     | Mark | 65000 | 12
                 | 12/25/2008 |
     | Pam | 25000 | 25
| 4
                      1/1/2005
     | Alex | 5000 | 10
| 5
                      2/3/2007
+----+
Company table:
+----+
com_id | name | city |
+----+
2 ORANGE New York
3 | YELLOW | Boston |
4 | GREEN | Austin |
+----+
Orders table:
+----+
| order_id | order_date | com_id | sales_id | amount |
+----+
1
    | 1/1/2014 | 3 | 4
                     | 10000 |
    | 2/1/2014 | 4 | 5
| 2
                     5000
3 | 3/1/2014 | 1 | 1
                     50000
     | 4/1/2014 | 1 | 4
                     25000
+----+
Output:
+----+
name |
+----+
```

```
| Amy |
| Mark |
| Alex |
+----+
Explanation:
According to orders 3 and 4 in the Orders table, it is easy to tell that only
salesperson John and Pam have sales to company RED, so we report all the other names
in the table salesperson.
MySQL
SELECT SalesPerson.name
FROM Orders o JOIN Company c ON (o.com_id = c.com_id and c.name = 'RED')
RIGHT JOIN SalesPerson ON SalesPerson.sales_id = o.sales_id
WHERE o.sales_id IS NULL
Solution #2
SELECT SalesPerson.name
FROM SalesPerson
WHERE SalesPerson.sales_id NOT IN(
SELECT Orders.sales id
FROM Orders
LEFT JOIN Company ON Orders.com_id=Company.com_id
WHERE Company.name = 'RED');
1141. User Activity for the Past 30 Days I
Table: Activity
+----+
| Column Name | Type |
+----+
| user_id | int
```

Write an SQL query to find the daily active user count for a period of 30 days ending 2019–07–27 inclusively. A user was active on someday if they made at least one activity on that day.

Return the result table in any order.

The query result format is in the following example.

```
Input:
Activity table:
+----+
| user_id | session_id | activity_date | activity_type |
      | 1
                | 2019-07-20 | open_session |
| 1
| 1
      | 1
                | 2019-07-20 | scroll_down
                2019-07-20
                           end_session
| 1
       | 1
| 2
                2019-07-20
                            open_session
       4
| 2
      | 4
                2019-07-21
                           | send_message |
                2019-07-21
                            end_session
| 2
       4
                 2019-07-21
                            open_session
| 3
       | 2
```

```
3 | 2 | 2019-07-21 | send_message |
3 | 2 | 2019-07-21 | end_session |
4 3
             | 2019-06-25 | open_session |
4 3
             | 2019-06-25 | end_session |
+----+
Output:
+----+
day active_users
+----+
| 2019-07-20 | 2
| 2019-07-21 | 2
+----+
Explanation: Note that we do not care about days with zero active users.
MySQL
SELECT activity_date as day, COUNT(DISTINCT user_id) as active_users
```

FROM Activity

WHERE DATEDIFF('2019-07-27', activity_date) BETWEEN 0 AND 29

GROUP BY activity_date;

Solution #2

SELECT activity_date as day, COUNT(DISTINCT user_id) as active_users

FROM Activity

WHERE (activity_date BETWEEN '2019-06-28' AND '2019-07-27')

GROUP BY activity_date;

1729. Find Followers Count

Table: Followers

+----+

Write an SQL query that will, for each user, return the number of followers.

Return the result table ordered by user id.

The query result format is in the following example.

MySQL

SELECT user_id, COUNT(follower_id) as followers_count

FROM Followers

GROUP BY user_id

ORDER BY user_id;

1693. Daily Leads and Partners

Table: DailySales

This table contains the date and the name of the product sold and the IDs of the lead and partner it was sold to.

The name consists of only lowercase English letters.

Write an SQL query that will, for each date_id and make_name, return the number of distinct lead_id's and distinct partner_id's.

Return the result table in any order.

The query result format is in the following example.

Input:					
DailySales table	2:				
+	+		-+-		-+
date_id ma	ake_name	lead_id	1	partner_id	I
+	+		-+-		+
2020-12-8 to	oyota	0	:	1	
2020-12-8 to	oyota	1	(9	
2020-12-8 to	oyota	1	2	2	
2020-12-7 to	oyota	0	2	2	
2020-12-7 to	oyota	0	:	1	
2020-12-8 ho	onda	1	2	2	
2020-12-8 ho	onda	2	:	1	
2020-12-7 ho	onda	0	:	1	
2020-12-7 ho	onda	1	2	2	
2020-12-7 ho	onda	2	:	1	
+	+		-+-		-+
Output:					
+	+-			+	

MySQL

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

586. Customer Placing the Largest Number of Orders

Table: Orders

+	+
Column Name Type	I
+	+
order_number int	I
customer_number int	I
+	+
order_number is the primary k	ey for this table.
This table contains informati	on about the order ID and the customer ID.

Write an SQL query to find the <code>customer_number</code> for the customer who has placed **the largest** number of orders.

The test cases are generated so that **exactly one customer** will have placed more orders than any other customer.

The query result format is in the following example.

Example 1:

Input:								
Orders table:								
++		-+						
order_number	customer_number	1						
++		-+						
1	1	1						
2	2	1						
3	3	1						
4	3	1						
++		-+						
Output:								
+	+							
customer_numbe	er							
+	+							
3								
+	+							
Explanation:								
	ch number 3 has twoof them only has c		which	is greater	than	either	customer	1 or
So the result is	customer_number	3.						

MySQL

SELECT customer_number

FROM Orders

GROUP BY customer_number

ORDER BY COUNT(order_number) DESC LIMIT 1

511. Game Play Analysis I

Table: Activity

+
Column Name Type
++
player_id int
device_id int
event_date date
games_played int
++
(player_id, event_date) is the primary key of this table.
This table shows the activity of players of some games.
Each row is a record of a player who logged in and played a number of games (possibl 0) before logging out on someday using some device.

Write an SQL query to report the **first login date** for each player.

Return the result table in **any order**.

The query result format is in the following example.

Input:	
Activity table:	

```
+----+
| player_id | device_id | event_date | games_played |
+----+
| 1 | 2 | 2016-03-01 | 5
2 | 3 | 2017-06-25 | 1
3 | 1 | 2016-03-02 | 0
3 | 4 | 2018-07-03 | 5
+----+
Output:
+----+
| player_id | first_login |
+----+
| 1 | 2016-03-01 |
| 2 | 2017-06-25 |
| 3 | 2016-03-02 |
+----+
MySQL
```

SELECT player_id, MIN(event_date) as first_login

FROM Activity

GROUP BY player_id

1890. The Latest Login in 2020

Table: Logins

Write an SQL query to report the **latest** login for all users in the year 2020. Do **not** include the users who did not login in 2020.

Return the result table in any order.

The query result format is in the following example.

```
Input:
Logins table:
+----+
| user_id | time_stamp
+----+
| 6 | 2020-06-30 15:06:07 |
6 | 2021-04-21 14:06:06 |
6
  | 2019-03-07 00:18:15 |
8
   | 2020-02-01 05:10:53 |
    | 2020-12-30 00:46:50 |
8
2
     | 2020-01-16 02:49:50 |
2 | 2019-08-25 07:59:08 |
| 14 | 2019-07-14 09:00:00 |
      | 2021-01-06 11:59:59 |
14
+----+
Output:
```

Explanation:

User 6 logged into their account 3 times but only once in 2020, so we include this login in the result table.

User 8 logged into their account 2 times in 2020, once in February and once in December. We include only the latest one (December) in the result table.

User 2 logged into their account 2 times but only once in 2020, so we include this login in the result table.

User 14 did not login in 2020, so we do not include them in the result table.

MySQL

SELECT user_id, MAX(time_stamp) as last_stamp

FROM Logins

WHERE YEAR(time_stamp) = 2020

GROUP BY user_id