

LeetCode SQL 50

Advanced String Functions / Regex / Clause



1667. Fix Names in a Table

Input:

Users table:

user_id	name
1	aLice
2	bOB

Output:

user_id	name
1	Alice
2	Bob

```
Select
    user_id,
    concat(upper(substring(name, 1, 1)),
          lower(substring(name, 2))) As name
From Users
Order By user_id;
```

1527. Patients With a Condition

Input:

Patients table:

patient_id	patient_name	conditions
1	Daniel	YFEV COUGH
2	Alice	
3	Bob	DIAB100 MYOP
4	George	ACNE DIAB100
5	Alain	DIAB201

Output:

patient_id	patient_name	conditions
3	Bob	DIAB100 MYOP
4	George	ACNE DIAB100

```
Select
    patient_id, patient_name, conditions
From
    Patients
Where
    conditions LIKE '% DIAB1%' OR
    conditions LIKE 'DIAB1%';
```

196. Delete Duplicate Emails

Input:

Person table:

+-----+	
id	email
+-----+	
1	john@example.com
2	bob@example.com
3	john@example.com
+-----+	

Output:

+-----+	
id	email
+-----+	
1	john@example.com
2	bob@example.com
+-----+	

```
Delete p
From Person p
  Join Person p1
Where
  p.email = p1.email
  And p.id > p1.id;
```

176. Second Highest Salary.

Input:

Employee table:

id	salary
1	100
2	200
3	300

Output:

SecondHighestSalary
200

```
Select  
    IFNULL(  
        Select Distinct salary  
        From Employee  
        Order By salary DESC  
        Limit 1 Offset 1  
    ), null) As SecondHighestSalary;
```

1484. Group Sold Products By The Date

Input:

Activities table:

sell_date	product
2020-05-30	Headphone
2020-06-01	Pencil
2020-06-02	Mask
2020-05-30	Basketball
2020-06-01	Bible
2020-06-02	Mask
2020-05-30	T-Shirt

Output:

sell_date	num_sold	products
2020-05-30	3	Basketball,Headphone,T-shirt
2020-06-01	2	Bible,Pencil
2020-06-02	1	Mask

```
Select
    sell_date,
    Count(Distinct product) As num_sold,
    Group_concat(Distinct product) As products
From Activities
Group By sell_date
Order By sell_date;
```

1327. List the Products Ordered in a Period

Input:

Products table:

product_id	product_name	product_category
1	Leetcode Solutions	Book
2	Jewels of Stringology	Book
3	HP	Laptop
4	Lenovo	Laptop
5	Leetcode Kit	T-shirt

Orders table:

product_id	order_date	unit
1	2020-02-05	60
1	2020-02-10	70
2	2020-01-18	30
2	2020-02-11	80
3	2020-02-17	2
3	2020-02-24	3
4	2020-03-01	20
4	2020-03-04	30
4	2020-03-04	60
5	2020-02-25	50
5	2020-02-27	50
5	2020-03-01	50

Output:

product_name	unit
Leetcode Solutions	130
Leetcode Kit	100

Select

product_name, sum(unit) As unit

From Products p

Join Orders o On p.product_id = o.product_id

Where

o.order_date

Between '2020-02-01' And '2020-02-29'

Group By p.product_id

Having sum(unit)>= 100;

1517. Find Users With Valid E-Mails

Input:

Users table:

user_id	name	mail
1	Winston	winston@leetcode.com
2	Jonathan	jonathanisgreat
3	Annabelle	bella-@leetcode.com
4	Sally	sally.come@leetcode.com
5	Marwan	quarz#2020@leetcode.com
6	David	david69@gmail.com
7	Shapiro	.shapo@leetcode.com

Output:

user_id	name	mail
1	Winston	winston@leetcode.com
3	Annabelle	bella-@leetcode.com
4	Sally	sally.come@leetcode.com

```
Select *
From
  Users
Where
  mail REGEXP
    '^[a-zA-Z][a-zA-Z0-9_.-]*@leetcode[.]com$';
```