LeetCode SQL 50

Sorting and Grouping



Number of Unique Subjects Taught by Each Teacher

Input:

Teacher table:

teacher_id	 subject_id 	++ dept_id ++
1	2	3
1	2	4
1	3	3
2	1	1
2	2	1
2	3	1
2	4	1

```
Select
  teacher_id,
  Count(Distinct subject_id) As cnt
From
  Teacher
Group By
  teacher_id;
```

1141. User Activity for the Past 30 Days I

Input:

Activity table:

+	+		
user_id	session_id	activity_date	activity_type
1	1	2019-07-20	open_session
1	1	2019-07-20	scroll_down
1	1	2019-07-20	end_session
2	4	2019-07-20	open_session
2	4	2019-07-21	send_message
2	4	2019-07-21	end_session
3	2	2019-07-21	open_session
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

day	active_users
2019-07-20	2 2

```
Select
  activity_date as day,
  Count(Distinct user_id) As active_users
From
  Activity
Where
  activity_date between Date_sub('2019-07-27', interval 29 day)
  AND '2019-07-27'
Group By
  activity_date;
```

1070. Product Sales Analysis III

Input:

Sales table:

sale_id	product_id	year	quantity	price
1	100	2008	10	5000
2	100	2009	12	5000
7	200	2011	15	9000

Product table:

+-	product_id	product_name
į	100	Nokia
I	200	Apple
	300	Samsung
+		

100	+	product_id	first_year	quantity	price
	İ	100		10 15	

```
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);
```

596. Classes More Than 5 Students

Input:

Courses table:

+-	+	+
	student	class
+-	+	+
	Α	Math
	В	English
	C	Math
	D	Biology
	Ε	Math
	F	Computer
	G	Math
	Η	Math
	I	Math
+-	+	+

```
Select
  class
From
  Courses
group by
  class
having
  count(class)>=5;
```

1729. Find Followers Count

Input:

Followers table:

user_id	 follower_id
0	
1	0
2	0
2	1
+	

```
Select
  user_id,
  Count(follower_id) As followers_count
From
  Followers
Group By
  user_id
  Order By
  user_id;
```

619. Biggest Single Number

```
Input:
MyNumbers table:
 num
Output:
 num
```

```
Select
  max(num) As num
From
  MyNumbers
Where num IN (
    Select num
    from
       MyNumbers
    group by num
    having
    Count(num)= 1);
```

1045. Customers Who Bought All Products

Input:

Customer table:

customer_id	product_key
1	5
3	5
3	6 6

Product table:

	product_key	
I	5	Ī
	6	

```
Select
   customer_id

from
   Customer
group by
   customer_id
having
   count(distinct product_key)
   =(select
      count(*)
   from
      Product);
```