fetch data with count and group by in postgres

Asked 4 years, 7 months ago Modified 4 years, 7 months ago Viewed 57 times



I have a table mail_details









	mail_id (bigint)	sent_time (timestamp)		<pre>failed_time (timestamp)</pre>	mail_type (varvha	
	1	2020-02-05		null(default)	type-t	
	2	2020-02-05	- 1	<pre>null(default)</pre>	type-t	
	3	2020-02-05	- 1	<pre>null(default)</pre>	type-m	
	4	2020-02-05	- 1	<pre>null(default)</pre>	type-p	
1	5	null(default)	1	2020-02-05	type-p	
İ	6	2020-02-05	Ĺ	<pre>null(default)</pre>	type-m	
ĺ	8	2020-02-05	Ĺ	null(default)	type-m	
Ĺ	9	null(default)	Ĺ	2020-02-05	type-m	
İ	10	2020-02-05	i	null(default)	type-n	
i	11	2020-02-05	i	null(default)	type-n	

Whenever the mail sent to the user I updated sent_time or mail sent failed I update failed_time

Now I want to fetch total number of mail sent (count) and the total number of mail failed (count) with the respective date where mail_type=(type_t or type_p or type_m or type_n)

output will be like

I have tried with count but did not work. Any help will be appriciated.

sql postgresql

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asked May 7, 2020 at 18:47

bala
125 • 8

Hi @zealous I am beginner and tried with count and group by but it did not wored – bala May 7, 2020 at 18:55

@bala - Could you try all answers and comment what works and what doesn't? You should try for a data for which an entry for a date exists sent_time and doesn't for failed_time and vice versa to have a 100% coverage on your test. – VN'sCorner May 7, 2020 at 19:19 /

4 Answers

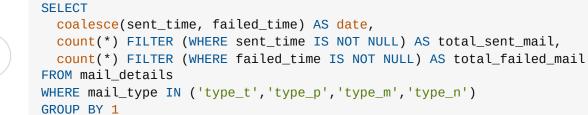
Sorted by: Highest score (default)





You can summarise using aggregate filters, and coalesce the dates between columns.

1







If you need rows for missing dates, you would need to resort to using generate_series().

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ORDER BY 1;

answered May 7, 2020 at 19:03



why it gives an extra row with blank date and 0 counts @Thom Brown – bala May 7, 2020 at 19:45

Do you have a row where both sent_mail and failed_mail are NULL? If you do, you can just filter that out in the WHERE clause. – Thom Brown May 7, 2020 at 19:48

Ok got it. One more thing is that sent_time is a timestamp so for sent time 2020-05-08 01:10:53.847912 and 2020-05-08 01:30:53.847912 it returns two rows with count 1 and 1 but I want it to consider only date not time(h:s:i) and returns one row with count 2. @Thom Brown — bala May 7, 2020 at 19:57

You can just cast them to dates, so use sent_time::date, failed_time::date in the coalesce parameters. No need to do that in the FILTER clause though. – Thom Brown May 7, 2020 at 20:01



I would unpivot using a lateral join and aggregate:

1

```
select time::date, sum(is_sent), sum(is_fail)
from mail_details md cross join lateral
   (values (sent_time, (sent_time is not null)::int, 0)
```



```
(failed_time, 0, (failed is not null)::int)
     ) v(time, is_sent, is_fail)
where t.time is not null and
      md.mail_type in ('type_t','type_p','type_m','type_n')
group by time::date
```

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edited May 8, 2020 at 0:14

answered May 7, 2020 at 19:05

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I did not got this query i think you have missed where mail type - bala May 7, 2020 at 19:18

I did not got this query i think you have missed where mail type @Gordon Linoff - bala May 7, 2020 at 19:46

@bala . . . It was not clear to me if that really required filtering. You listed all the mail types in your sample data, so no filtering seemed necessary. - Gordon Linoff May 8, 2020 at 0:15



Another one using FULL OUTER JOIN on the inline view,







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answered May 7, 2020 at 19:15





Using a union, this should do it:

0





```
SELECT
       dt,
       SUM(CASE WHEN event == 'SENT' then 1 else 0 end) total_sent_mail,
       SUM(CASE WHEN event == 'FAIL' then 1 else 0 end) total_failed_mail,
FROM
       SELECT 'SENT' as event,
                sent_time as dt
       FROM
                mail_details
       WHERE
                sent_time IS NOT NULL
                                        )
   UNION ALL
       SELECT 'FAIL' as event,
                failed_time as dt
       FROM
                mail details
```

WHERE failed_time IS NOT NULL)
GROUP BY dt

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edited May 7, 2020 at 19:26

answered May 7, 2020 at 18:59

timhealz 94 • 5

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