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MariaDB [rana_db]> --this query counts the number of reminders each user has and groups them by category (SMS or email)
MariaDB [rana_db]> SELECT u.username,
->     COUNT(er.reminder_id) AS email_count,
->     COUNT(sr.reminder_id) AS sms_count
-> FROM Users u
-> JOIN Tasks t ON u.user_id = t.user_id
-> LEFT JOIN Reminders r ON t.task_id = r.task_id
-> LEFT JOIN EmailReminders er ON r.reminder_id = er.reminder_id
-> LEFT JOIN SMSReminders sr ON r.reminder_id = sr.reminder_id
-> GROUP BY u.username;
+-----+-----+-----+
| username | email_count | sms_count |
+-----+-----+-----+
| user1    |          1 |          1 |
| user2    |          1 |          1 |
+-----+-----+-----+
2 rows in set (0.001 sec)

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MariaDB [rana_db]> --this query lists all users who have both a personal task and a work task and counts how many tasks
they have in those categories
MariaDB [rana_db]> SELECT u.username,
->     COUNT(DISTINCT pt.personal_task_id) AS personal_task_count,
->     COUNT(DISTINCT wt.work_task_id) AS work_task_count
-> FROM Users u
-> LEFT JOIN Tasks t ON u.user_id = t.user_id
-> LEFT JOIN Personal_Task pt ON t.task_id = pt.personal_task_id
-> LEFT JOIN Work_Task wt ON t.task_id = wt.work_task_id
-> GROUP BY u.username
-> HAVING personal_task_count > 0 AND work_task_count > 0;
+-----+-----+-----+
| username | personal_task_count | work_task_count |
+-----+-----+-----+
| user2    |          1          |          1      |
+-----+-----+-----+

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MariaDB [rana_db]> --this query lists all users who have tasks in progress with the number of reminders they have
MariaDB [rana_db]> SELECT u.username, t.title, t.deadline, COUNT(r.reminder_id) AS reminder_count
-> FROM Users u
-> JOIN Tasks t ON u.user_id = t.user_id
-> JOIN TaskStatus ts ON t.status_id = ts.status_id
-> LEFT JOIN Reminders r ON t.task_id = r.task_id
-> WHERE ts.status_name = 'in-progress'
-> GROUP BY u.username, t.title, t.deadline;
+-----+-----+-----+-----+
| username | title           | deadline      | reminder_count |
+-----+-----+-----+-----+
| user1    | Grocery Shopping | 2024-10-06   |          1     |
+-----+-----+-----+-----+
1 row in set (0.001 sec)

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MariaDB [rana_db]> SELECT u.username, t.title, t.description, COUNT(r.reminder_id) AS reminder_count
-> FROM Users u
-> JOIN Tasks t ON u.user_id = t.user_id
-> LEFT JOIN Reminders r ON t.task_id = r.task_id
-> GROUP BY u.username, t.title;
+-----+-----+-----+-----+
| username | title           | description    | reminder_count |
+-----+-----+-----+-----+
| user1    | Grocery Shopping | Buy groceries  |          1     |
| user2    | Project Deadline | Submit project in time |          1     |
| user2    | Team Meeting    | Meeting with team |          0     |
+-----+-----+-----+-----+
3 rows in set (0.002 sec)

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MariaDB [rana_db]> SELECT u.username,
->     CASE
->         WHEN pt.personal_task_id IS NOT NULL THEN 'Personal Task'
->         WHEN wt.work_task_id IS NOT NULL THEN 'Work Task'
->     END AS task_type,
->     COUNT(t.task_id) AS task_count
-> FROM Users u
-> JOIN Tasks t ON u.user_id = t.user_id
-> LEFT JOIN Personal_Task pt ON t.task_id = pt.personal_task_id
-> LEFT JOIN Work_Task wt ON t.task_id = wt.work_task_id
-> GROUP BY u.username, task_type;
+-----+-----+-----+
| username | task_type      | task_count |
+-----+-----+-----+
| user1    | Personal Task  |          1 |
| user2    | Personal Task  |          1 |
| user2    | Work Task      |          1 |
+-----+-----+-----+
3 rows in set (0.001 sec)

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MariaDB [rana_db]>

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MariaDB [rana_db]> SELECT u.username, t.title, COUNT(r.reminder_id) AS reminder_count
-> FROM Users u
-> JOIN Tasks t ON u.user_id = t.user_id
-> JOIN Reminders r ON t.task_id = r.task_id
-> WHERE t.priority = '1'
-> GROUP BY u.username, t.title
-> HAVING COUNT(r.reminder_id) >= 2;

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+-----+-----+-----+
| username | title           | reminder_count |
+-----+-----+-----+
| user1    | Grocery Shopping | 2              |
+-----+-----+-----+
1 row in set (0.001 sec)

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MariaDB [rana_db]> SELECT u.username, t.title, t.deadline, COUNT(r.reminder_id) AS reminder_count
-> FROM Users u
-> JOIN Tasks t ON u.user_id = t.user_id
-> LEFT JOIN Reminders r ON t.task_id = r.task_id
-> WHERE t.deadline < NOW()
-> GROUP BY u.username, t.title, t.deadline;

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+-----+-----+-----+-----+
| username | title           | deadline       | reminder_count |
+-----+-----+-----+-----+
| user1    | Grocery Shopping | 2024-09-30     | 4              |
| user2    | Project Deadline | 2024-09-29     | 2              |
+-----+-----+-----+-----+
2 rows in set (0.001 sec)

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MariaDB [rana_db]> SELECT u.username, t.title, COUNT(r.reminder_id) AS reminder_count
-> FROM Users u
-> JOIN Tasks t ON u.user_id = t.user_id
-> LEFT JOIN Reminders r ON t.task_id = r.task_id
-> JOIN TaskStatus ts ON t.status_id = ts.status_id
-> WHERE ts.status_name = 'completed'
-> GROUP BY u.username, t.title
-> HAVING COUNT(r.reminder_id) > 1;

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+-----+-----+-----+
| username | title | reminder_count |
+-----+-----+-----+
| user1    | Task 1 | 2              |
+-----+-----+-----+
1 row in set (0.001 sec)

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MariaDB [rana_db]> SELECT u.username, t.title, t.priority, COUNT(r.reminder_id) AS reminder_count
-> FROM Users u
-> JOIN Tasks t ON u.user_id = t.user_id
-> LEFT JOIN Reminders r ON t.task_id = r.task_id
-> WHERE t.priority IN (1, 2) -- Assuming 1 = Low and 2 = Medium
-> GROUP BY u.username, t.title, t.priority;

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+-----+-----+-----+-----+
| username | title           | priority | reminder_count |
+-----+-----+-----+-----+
| admin1   | Task 5          | 2        | 0              |
| user1    | Grocery Shopping | 1        | 4              |
| user1    | Task 1          | 1        | 2              |
| user1    | Task 2          | 2        | 1              |
| user1    | Task 6          | 2        | 0              |
| user2    | Project Deadline | 2        | 2              |
| user2    | Task 4          | 1        | 0              |
| user2    | Task 7          | 1        | 0              |
+-----+-----+-----+-----+
8 rows in set (0.001 sec)

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