The tests and outcomes listed below are for the test\_discord\_messages.json dataset. This dataset contains 8 arbitrarily generated messages covering two channels (community-health and general) and three days (2022-07-01, 2022-07-02 and 2022-07-03). See test\_message\_overview.ppt for more information about the test messages.

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| **Test #** | **Requirement** | **Outcome** |
| 1 | Every channel-date combination should result in a unique object | Exactly 4 channel-date objects |
| 2 | Messages from the same channel on different dates should lead to different objects | Exactly 3 channel-date objects for channel community-health |
| 3 | Messages on the same date from different channels should lead to different objects | Exactly 2 channel-date objects for 2022-07-02 |
| 4 | All lone\_messages should be counted at the time that they were sent | 1 count at 8  1 count at 15  1 count at 17  0 counts elsewhere |
| 5 | All thread\_messages should be counted at the time that they were sent | 1 count at 20  0 counts elsewhere |
| 6 | All sent replies should be counted at the time that they were sent | 1 count at 7  1 count at 8  1 count at 9  1 count at 20  0 counts elsewhere |
| 7 | All received replies should be counted at the time that they were sent | 1 count at 7  1 count at 8  1 count at 9  1 count at 20  0 counts elsewhere |
| 8 | All sent mentions should be counted at the time that they were sent | 2 counts at 7  1 count at 8  1 count at 17  2 counts at 20  0 counts elsewhere |
| 9 | All received mentions should be counted at the time that they were sent | 2 counts at 7  1 count at 8  1 count at 17  2 counts at 20  0 counts elsewhere |
| 10 | All sent mentions of the author of a replied message should be counted at the time that they were sent | 1 count at 7  1 count at 8  1 count at 9  1 count at 20  0 counts elsewhere |
| 11 | All received mentions of the author of a replied message should be counted at the time that they were sent | 1 count at 7  1 count at 8  1 count at 9  1 count at 20  0 counts elsewhere |
| 12 | All sent emoji reactions should be counted at the time that the message that they were reacted to was sent | 3 counts at 7  1 count at 8  1 count at 9  1 count at 15  2 counts at 20  0 counts elsewhere |
| 13 | All received emoji reactions should be counted at the time that the message that they were reacted to was sent | 3 counts at 7  1 count at 8  1 count at 9  1 count at 15  2 counts at 20  0 counts elsewhere |
| 14 | All lone\_messages should be counted for the author that sent the message | 1 counts for danielo#2815  1 count for katerinabc#6667  1 count for remainder  0 counts elsewhere |
| 15 | All thread\_messages should be counted at the time that they were sent for the author that sent the message | 1 count for WaKa#6616  0 counts elsewhere |
| 16 | All sent replies should be counted at the time that they were sent for the author that sent the message | 2 counts for danielo#2815  1 count for Ene SS Rawa#0855  1 count for remainder  0 counts elsewhere |
| 17 | All received replies should be counted at the time that the replies were sent for the author that sent the message that received the reply | 1 count for danielo#2815  2 counts for WaKa#6616  1 count for remainder  0 counts elsewhere |
| 18 | All sent mentions should be counted at the time that they were sent for the author that sent the message | 4 counts for danielo#2815  2 counts for Ene SS Rawa#0855  0 counts elsewhere |
| 19 | All received mentions should be counted at the time that they were sent for the accounts that got mentioned | 1 count for danielo#2815  3 counts for katerinabc#6667  1 count for WaKa#6616  1 count for remainder  0 counts elsewhere |
| 20 | All sent reply\_mentions should be counted at the time that they were sent for the author that sent the reply message with the mention | 2 counts for danielo#2815  1 count for Ene SS Rawa#0855  1 count for remainder  0 counts elsewhere |
| 21 | All received reply\_mentions should be counted at the time that they were sent for the author that sent the message that got replied to and who was also mentioned in the reply | 1 count for danielo#2815  2 counts for WaKa#6616  1 count for remainder  0 counts elsewhere |
| 22 | All sent emoji reactions should be counted at the time that the message that they were reacted to was sent for the sender of the emoji | 5 counts for danielo#2815  2 counts for katerinabc#6667  1 count for remainder  0 counts elsewhere |
| 23 | All received emoji reactions should be counted at the time that the message that they were reacted to was sent for author of the message | 2 counts for danielo#2815  1 count for katerinabc#6667  1 count for WaKa#6616  3 counts for Ene SS Rawa#0855  1 count for remainder |
| 24 | Messages from accounts not included in acc\_names cause a warning to be raised | warning\_count[0] = 2 |
| 25 | Mentions where the message author mentions themselves should not be counted and instead a warning message is raised | warning\_count[2] = 1  warning message printed in terminal  Test 8, 9, 10, 11, 18, 19, 20, 21 passed |
| 26 | Emojis reacted by the author of the original message should not be counted and instead a warning message is raised | warning \_count[3] = 1  warning message printed in terminal  Test 12, 13, 22 and 23 passed |
| 27 | Emojis reacted by a sender not listed in acc\_names raise a warning message | warning\_count[4] = 1 |
| 28 | Mentioned accounts not listed in acc\_names raise a warning message | warning\_count[5] = 2 |
| 29 | Accounts receiving a reply that are not listed in acc\_names raise a warning message | warning\_count[6] = 1 |
|  | Mentions in replies where the author of the message that is replied to is mentioned should be counted separately | Test 10, 11, 20 and 21 pass |
|  | When multiple emoji types are sent to a single message, they should all be counted | Test 12, 13, 22 and 23 pass |
|  | When multiple accounts send the same emoji to a single message, they should all be counted | Test 12, 13, 22 and 23 pass |
|  | Times starting with a 0 should be counted correctly | Any tests of [4,6-13] passes |
|  | Both mentions and reply mentions of accounts not listed in acc\_names result in a warning | Test 28 passes |