

3126. Server Utilization Time Premium

Medium🔒 Topics

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Table: Servers

Column Name	Type
server_id	int
status_time	datetime
session_status	enum

(server_id, status_time, session_status) is the primary key (combination of columns with unique values) for this table.
session_status is an ENUM (category) type of ('start', 'stop').
Each row of this table contains server_id, status_time, and session_status.

Write a solution to find the **total time** when servers were **running**. The output should be rounded down to the nearest number of **full days**.

Return *the result table in **any** order*.

The result format is in the following example.

Example:

Input:

Servers table:

server_id	status_time	session_status
3	2023-11-04 16:29:47	start
3	2023-11-05 01:49:47	stop
3	2023-11-25 01:37:08	start
3	2023-11-25 03:50:08	stop
1	2023-11-13 03:05:31	start
1	2023-11-13 11:10:31	stop
4	2023-11-29 15:11:17	start
4	2023-11-29 15:42:17	stop
4	2023-11-20 00:31:44	start
4	2023-11-20 07:03:44	stop
1	2023-11-20 00:27:11	start
1	2023-11-20 01:41:11	stop
3	2023-11-04 23:16:48	start
3	2023-11-05 01:15:48	stop
4	2023-11-30 15:09:18	start
4	2023-11-30 20:48:18	stop
4	2023-11-25 21:09:06	start
4	2023-11-26 04:58:06	stop
5	2023-11-16 19:42:22	start
5	2023-11-16 21:08:22	stop

Output:

total_uptime_days
1

Explanation:

For server ID 3:

From 2023-11-04 16:29:47 to 2023-11-05 01:49:47: ~9.3 hours

From 2023-11-25 01:37:08 to 2023-11-25 03:50:08: ~2.2 hours

From 2023-11-04 23:16:48 to 2023-11-05 01:15:48: ~1.98 hours

Total for server 3: ~13.48 hours

For server ID 1:

From 2023-11-13 03:05:31 to 2023-11-13 11:10:31: ~8 hours

From 2023-11-20 00:27:11 to 2023-11-20 01:41:11: ~1.23 hours

Total for server 1: ~9.23 hours

For server ID 4:

From 2023-11-29 15:11:17 to 2023-11-29 15:42:17: ~0.52 hours

From 2023-11-20 00:31:44 to 2023-11-20 07:03:44: ~6.53 hours

From 2023-11-30 15:09:18 to 2023-11-30 20:48:18: ~5.65 hours

From 2023-11-25 21:09:06 to 2023-11-26 04:58:06: ~7.82 hours

Total for server 4: ~20.52 hours

For server ID 5:

From 2023-11-16 19:42:22 to 2023-11-16 21:08:22: ~1.43 hours

Total for server 5: ~1.43 hours

The accumulated runtime for all servers totals approximately 44.46 hours, equivalent to one full day plus some additional hours. However, since we consider only full days, the final output is rounded to 1 full day.

Seen this question in a real interview before? 1/5

YesNo

Accepted 1.3K | Submissions 2.2K | Acceptance Rate 59.4%

🔒 Topics

Database

💬 Discussion (7)