

1635. Hopper Company Queries I

Description

Table: Drivers

Column Name	Type
driver_id	int
join_date	date

driver_id is the primary key (column with unique values) for this table.
Each row of this table contains the driver's ID and the date they joined the Hopper company.

Table: Rides

Column Name	Type
ride_id	int
user_id	int
requested_at	date

ride_id is the primary key (column with unique values) for this table.
Each row of this table contains the ID of a ride, the user's ID that requested it, and the day they requested it.
There may be some ride requests in this table that were not accepted.

Table: AcceptedRides

Column Name	Type
ride_id	int
driver_id	int
ride_distance	int
ride_duration	int

ride_id is the primary key (column with unique values) for this table.
Each row of this table contains some information about an accepted ride.
It is guaranteed that each accepted ride exists in the Rides table.

Write a solution to report the following statistics for each month of 2020 :

- The number of drivers currently with the Hopper company by the end of the month (active_drivers).
- The number of accepted rides in that month (accepted_rides).

Return the result table ordered by month in ascending order, where month is the month's number (January is 1 , February is 2 , etc.).

The result format is in the following example.

Example 1:

Input:

Drivers table:

driver_id	join_date
10	2019-12-10
8	2020-1-13
5	2020-2-16
7	2020-3-8
4	2020-5-17
1	2020-10-24
6	2021-1-5

Rides table:

ride_id	user_id	requested_at
6	75	2019-12-9
1	54	2020-2-9
10	63	2020-3-4
19	39	2020-4-6
3	41	2020-6-3
13	52	2020-6-22
7	69	2020-7-16
17	70	2020-8-25
20	81	2020-11-2
5	57	2020-11-9
2	42	2020-12-9
11	68	2021-1-11
15	32	2021-1-17
12	11	2021-1-19
14	18	2021-1-27

AcceptedRides table:

ride_id	driver_id	ride_distance	ride_duration
10	10	63	38
13	10	73	96
7	8	100	28
17	7	119	68
20	1	121	92
5	7	42	101
2	4	6	38
11	8	37	43
15	8	108	82
12	8	38	34
14	1	90	74

Output:

month	active_drivers	accepted_rides
1	2	0
2	3	0
3	4	1
4	4	0
5	5	0
6	5	1
7	5	1
8	5	1
9	5	0
10	6	0
11	6	2
12	6	1

Explanation:
By the end of January --> two active drivers (10, 8) and no accepted rides.
By the end of February --> three active drivers (10, 8, 5) and no accepted rides.
By the end of March --> four active drivers (10, 8, 5, 7) and one accepted ride (10).
By the end of April --> four active drivers (10, 8, 5, 7) and no accepted rides.
By the end of May --> five active drivers (10, 8, 5, 7, 4) and no accepted rides.
By the end of June --> five active drivers (10, 8, 5, 7, 4) and one accepted ride (13).
By the end of July --> five active drivers (10, 8, 5, 7, 4) and one accepted ride (7).
By the end of August --> five active drivers (10, 8, 5, 7, 4) and one accepted ride (17).
By the end of September --> five active drivers (10, 8, 5, 7, 4) and no accepted rides.
By the end of October --> six active drivers (10, 8, 5, 7, 4, 1) and no accepted rides.
By the end of November --> six active drivers (10, 8, 5, 7, 4, 1) and two accepted rides (20, 5).
By the end of December --> six active drivers (10, 8, 5, 7, 4, 1) and one accepted ride (2).

