Ride Cancellation Rate Answer

CREATE TABLE Trips ( id INT, client\_id INT, driver\_id INT, city\_id INT, status VARCHAR(20), request\_at DATE);

INSERT INTO Trips (id, client\_id, driver\_id, city\_id, status, request\_at) VALUES

(1, 1, 10, 1, 'completed', '2023-07-12'),

(2, 2, 11, 1, 'cancelled\_by\_driver', '2023-07-12'),

(3, 3, 12, 6, 'completed', '2023-07-12'),

(4, 4, 13, 6, 'cancelled\_by\_client', '2023-07-12'),

(5, 1, 10, 1, 'completed', '2023-07-13'),

(6, 2, 11, 6, 'completed', '2023-07-13'),

(7, 3, 12, 6, 'completed', '2023-07-13'),

(8, 2, 12, 12, 'completed', '2023-07-14'),

(9, 3, 10, 12, 'completed', '2023-07-14'),

(10, 4, 13, 12, 'cancelled\_by\_driver', '2023-07-14');

CREATE TABLE Users1 (

users\_id INT,

banned VARCHAR(3),

role VARCHAR(10)

);

INSERT INTO Users1 (users\_id, banned, role) VALUES

(1, 'No', 'client'),

(2, 'Yes', 'client'),

(3, 'No', 'client'),

(4, 'No', 'client'),

(10, 'No', 'driver'),

(11, 'No', 'driver'),

(12, 'No', 'driver'),

(13, 'No', 'driver')

WITH UnbannedTrips AS (

SELECT

t.request\_at AS Day,

COUNT(CASE WHEN t.status LIKE 'cancelled%' THEN 1 END) AS canceled\_requests,

COUNT(\*) AS total\_requests

FROM

Trips t

JOIN users1 u1 ON t.client\_id = u1.users\_id

JOIN Users1 u2 ON t.driver\_id = u2.users\_id

WHERE

u1.banned = 'No' AND u2.banned = 'No'

GROUP BY

t.request\_at

)

SELECT

Day,

CASE

WHEN total\_requests = 0 THEN NULL

ELSE ROUND(canceled\_requests::numeric / total\_requests, 2)

END AS Cancellation\_Rate

FROM

UnbannedTrips

ORDER BY

Day;