

# Problem 3308: Find Top Performing Driver

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 48.89%

**Paid Only:** Yes

**Tags:** Database

## Problem Description

Table: `Drivers`

+-----+-----+ | Column Name | Type | +-----+-----+ | driver\_id | int | | name | varchar | | age | int | | experience | int | | accidents | int | +-----+-----+ (driver\_id) is the unique key for this table. Each row includes a driver's ID, their name, age, years of driving experience, and the number of accidents they've had.

Table: `Vehicles`

+-----+-----+ | vehicle\_id | int | | driver\_id | int | | model | varchar | | fuel\_type | varchar | | mileage | int | +-----+-----+ (vehicle\_id, driver\_id, fuel\_type) is the unique key for this table. Each row includes the vehicle's ID, the driver who operates it, the model, fuel type, and mileage.

Table: `Trips`

+-----+-----+ | trip\_id | int | | vehicle\_id | int | | distance | int | | duration | int | | rating | int | +-----+-----+ (trip\_id) is the unique key for this table. Each row includes a trip's ID, the vehicle used, the distance covered (in miles), the trip duration (in minutes), and the passenger's rating (1-5).

Uber is analyzing drivers based on their trips. Write a solution to find the \*\*top-performing driver\*\* for \*\*each fuel type\*\* based on the following criteria:

1. A driver's performance is calculated as the \*\*average rating\*\* across all their trips. Average rating should be rounded to `2` decimal places.
2. If two drivers have the same average

rating, the driver with the \*\*longer total distance\*\* traveled should be ranked higher. 3. If there is \*\*still a tie\*\* , choose the driver with the \*\*fewest accidents\*\*.

Return \_the result table ordered by\_ `fuel\_type` \_in\_ \*\*ascending\*\* \_order.\_

The result format is in the following example.

**Example:**

**Input:**

`Drivers` table:

				driver_id	name	age	experience	accidents
				1	Alice	34	10	1
				2	Bob	45	20	3

Charlie | 28 | 5 | 0 | +-----+-----+-----+-----+

`Vehicles` table:

vehicle_id	driver_id	model	fuel_type	mileage
100	1	Sedan	Gasoline	20000
101	2	SUV	Electric	30000

| 102 | 3 | Coupe | Gasoline | 15000 | +-----+-----+-----+-----+

`Trips` table:

trip_id	vehicle_id	distance	duration	rating
201	100	50	30	5
202	100	30	20	4
203	101	60	40	5
204	101	80	50	5
205	102	40	30	5
206	102	60	40	5

**Output:**

fuel_type	driver_id	rating	distance
Electric	2	4.50	180

| Gasoline | 3 | 5.00 | 100 | +-----+-----+-----+

**Explanation:**

\* For fuel type `Gasoline` , both Alice (Driver 1) and Charlie (Driver 3) have trips. Charlie has an average rating of 5.0, while Alice has 4.5. Therefore, Charlie is selected. \* For fuel type `Electric` , Bob (Driver 2) is the only driver with an average rating of 4.5, so he is selected.

The output table is ordered by `fuel\_type` in ascending order.

## Code Snippets

### MySQL:

```
# Write your MySQL query statement below
```

### MS SQL Server:

```
/* Write your T-SQL query statement below */
```

### PostgreSQL:

```
-- Write your PostgreSQL query statement below
```