

3166. Calculate Parking Fees and Duration

Premium

Medium

Topics

SQL Schema

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Pandas Schema

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Table: ParkingTransactions

Column Name	Type
lot_id	int
car_id	int
entry_time	datetime
exit_time	datetime
fee_paid	decimal

(lot\_id, car\_id, entry\_time) is the primary key (combination of columns with unique values) for this table.

Each row of this table contains the ID of the parking lot, the ID of the car, the entry and exit times, and the fee paid for the parking duration.

Write a solution to find the **total parking fee** paid by each car **across all parking lots**, and the **average hourly fee** (rounded to 2 decimal places) paid by **each** car. Also, find the **parking lot** where each car spent the **most total time**.

Return *the result table ordered by car\_id in ascending order*.

**Note:** Test cases are generated in such a way that an individual car cannot be in multiple parking lots at the same time.

The result format is in the following example.

Example:

Input:

ParkingTransactions table:

lot_id	car_id	entry_time	exit_time	fee_paid
1	1001	2023-06-01 08:00:00	2023-06-01 10:30:00	5.00
1	1001	2023-06-02 11:00:00	2023-06-02 12:45:00	3.00
2	1001	2023-06-01 10:45:00	2023-06-01 12:00:00	6.00
2	1002	2023-06-01 09:00:00	2023-06-01 11:30:00	4.00
3	1001	2023-06-03 07:00:00	2023-06-03 09:00:00	4.00
3	1002	2023-06-02 12:00:00	2023-06-02 14:00:00	2.00

Output:

car_id	total_fee_paid	avg_hourly_fee	most_time_lot
1001	18.00	2.40	1
1002	6.00	1.33	2

Explanation:

- For car ID 1001:
  - From 2023-06-01 08:00:00 to 2023-06-01 10:30:00 in lot 1: 2.5 hours, fee 5.00
  - From 2023-06-02 11:00:00 to 2023-06-02 12:45:00 in lot 1: 1.75 hours, fee 3.00
  - From 2023-06-01 10:45:00 to 2023-06-01 12:00:00 in lot 2: 1.25 hours, fee 6.00
  - From 2023-06-03 07:00:00 to 2023-06-03 09:00:00 in lot 3: 2 hours, fee 4.00Total fee paid: 18.00, total hours: 7.5, average hourly fee: 2.40, most time spent in lot 1: 4.25 hours.
- For car ID 1002:
  - From 2023-06-01 09:00:00 to 2023-06-01 11:30:00 in lot 2: 2.5 hours, fee 4.00
  - From 2023-06-02 12:00:00 to 2023-06-02 14:00:00 in lot 3: 2 hours, fee 2.00Total fee paid: 6.00, total hours: 4.5, average hourly fee: 1.33, most time spent in lot 2: 2.5 hours.

**Note:** Output table is ordered by car\_id in ascending order.

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

Yes

No

Accepted 1.2K

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Submissions 2.2K

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Acceptance Rate 52.6%

Topics

Database

Discussion (2)