Consider the following tables and provide SQL queries for the questions that follow.

LOANS

|  |  |  |  |
| --- | --- | --- | --- |
| loan\_id | user\_id | total\_amount\_disbursed | disbursement\_date |
| 1 | 1 | 5000 | 2022-09-02 |
| 2 | 2 | 6000 | 2022-09-02 |
| 3 | 1 | 1000 | 2022-10-05 |
| 4 | 3 | 10000 | 2022-09-02 |

PAYMENTS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| payment\_id | loan\_id | amount | type | payment\_timestamp |
| 1 | 1 | 5000 | disbursement | 2022-10-01 05:01:12 |
| 2 | 2 | 100 | repayment | 2022-10-01 05:05:12 |
| 3 | 1 | 1000 | repayment | 2022-10-01 05:31:01 |
| 4 | 2 | 10 | repayment | 2022-11-01 03:11:01 |

Q. 1 Write a query to create a table that will have total outstanding balance on each day from disbursement day till last repayment date of the loan for each user - loan combination.

Assume that all the loan tenure is for 60 days only.

* 1. Total outstanding balance at each day

Definition of Total outstanding balance = total disbursed amount (type=’disbursement’ in PAYMENTS table) - total repaid amount (type=’repayment’ in PAYMENTS table)

* 1. Latest repayment date at each day

Required Table Structure

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| date | user\_id | loan\_id | total\_amount\_disbursed | total\_outstanding\_amount | latest\_repayment\_date |
| 2022-12-01 | 1 | 12 | 20000 | 15000 | 2022-11-01 |
| 2022-12-02 | 1 | 12 | 20000 | 12000 | 2022-11-01 |
| 2022-12-03 | 1 | 12 | 20000 | 8000 | 2022-12-02 |