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SELECT date,
round( ( SELECT COUNT(*) FROM user_activity
WHERE activity_date = date AND activity_type IN ('login', 'click',
'purchase') ) / ( SELECT COUNT(DISTINCT user_id) FROM user_activity
WHERE activity_date = date ) * 100, 2 ) AS engagement_rate FROM
user_activity GROUP BY date;

```

Below is the user_activity table:

user_id	activity_date	activity_type
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1001	2023-08-01	login
1002	2023-08-01	click
1003	2023-08-01	purchase
1001	2023-08-02	login
1002	2023-08-02	click

Then, the query will return the following results:

date	engagement_rate
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2023-08-01	66.67%
2023-08-02	50.00%