

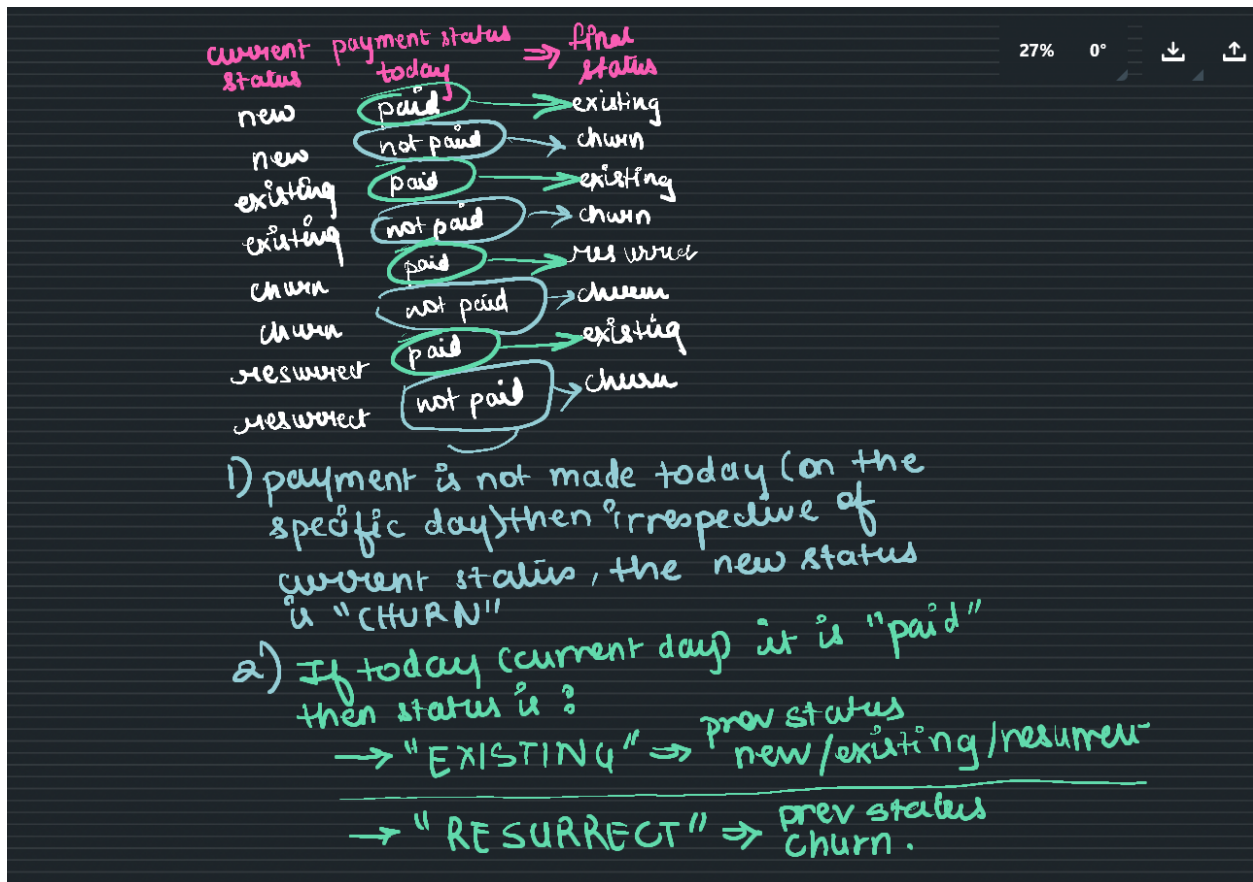
8_Advertiser Status Hard Solution

Source - <https://datalemur.com/questions/updated-status>

Running Notes:

- 2 tables:
 - **advertiser** - it has user id and the status of payment
 - STATUS OF THE PAYMENT
 - NEW - new reg + made first payment
 - EXISTING - made payment in past + recently made a current payment
 - RESURRECT - not made recent payment par made a previous payment and came back to make the payment again
 - CHURN - made payment in past + no current payment (These are advertisers who were once active (made payments before) but have stopped paying for a while now.)
 - **daily_pay** - has user id and how much they paid — it only includes advertisers who have made payments.

current status	payment status today	⇒ final status
new	paid	existing
new	not paid	churn
existing	paid	existing
existing	not paid	churn
churn	paid	resurrect
churn	not paid	churn
resurrect	paid	existing
resurrect	not paid	churn



- Question

- update the payment status of Facebook advertisers based on daily pay table
- sorted by user id

```
SELECT a.user_id,
CASE
WHEN d.paid IS NULL THEN 'CHURN'
WHEN d.paid IS NOT NULL AND a.status IN ('NEW', 'EXISTING', 'RESU
WHEN d.paid IS NOT NULL AND a.status = 'CHURN' THEN 'RESURRECT'
END AS new_status
FROM advertiser AS a
LEFT JOIN
daily_pay as d
```

```
ON a.user_id = d.user_id
ORDER BY a.user_id
```

but this query has given an error

- left join won't work, I need a FULL OUTER JOIN because the `daily_pay` table has a advertiser that is not in `advertiser`

so the final solution is here, i am so happy lol 😊

```
SELECT COALESCE(a.user_id,d.user_id) AS user_id,
CASE
WHEN d.paid IS NULL THEN 'CHURN'
WHEN d.paid IS NOT NULL AND a.status IN ('NEW','EXISTING','RESU
WHEN d.paid IS NOT NULL AND a.status ='CHURN' THEN 'RESURRECT'
ELSE 'NEW'
END AS new_status
FROM advertiser AS a
FULL OUTER JOIN
daily_pay as d
ON a.user_id = d.user_id
ORDER BY user_id
```

main changes here

- used a full outer join
- so when i do full outer join I cant use a.user_id because it will have NULL value so I need to fill in if there is a null value then take the user_id from the daily_pay column so I used the **COALESCE()**



COALESCE returns the first non-NULL value from the list of arguments provided. In this case, it will return `a.user_id` if it's not NULL, or `d.user_id` if `a.user_id` is NULL.

| Written By,

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