

# 89\_Share of Active Users - Medium Solution

Source - [https://platform.stratascratch.com/coding/2005-share-of-active-users?code\\_type=1](https://platform.stratascratch.com/coding/2005-share-of-active-users?code_type=1)

Running Notes:

- find the percentage of users who match this condition
  - from the US
    - AND
  - have an 'open' status, as indicated in the `fb_active_users` table
- $\text{answer} = ( (\text{count of people who match this condition}) * 1.0 / (\text{count of all people}) ) * 100$

```
SELECT
(select COUNT(user_id)
from fb_active_users
WHERE country='USA' AND status='open') * 1.0
/
(select COUNT(user_id)
FROM fb_active_users
) * 100
AS us_active_share
```

Why \* 1.0?

In SQL, the division operator

`/` treats integers (whole numbers like 1, -69, 420) differently than in Excel. In SQL, integer division discards the remainder from the output, providing only the integer (whole number) part of the result. This behavior contrasts with Excel, which

retains the decimal part.

## How to Divide Integers and Return Decimal/Float Output?

You can still make SQL achieve decimal output with a few tricks such as:

- `CAST()` function
- multiplying by `1.0`
- being explicit with types using `::`

reference: <https://datalemur.com/sql-tutorial/sql-division>

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