

Static PSA: Solutions to these quizzes are posted on [owenjoy.xyz/cs61a/section-quizzes](http://owenjoy.xyz/cs61a/section-quizzes).

1. (2 points) Stay Positive ...but as always not HIV positive

Schema: `numbers (idx, n)` (translation: a table called `numbers` with column names `idx` and `n`)

Given the above schema and the knowledge that `n` represents numerical values, select all **unique** positive values of `n` in the table. For example, if there was only one row containing the value 3, we would include 3 in the output. If there were two rows containing 4, however, we would *not* include 4 in the output. You can disregard `idx`; it exists only to ensure that we can have duplicate entries of `n` in the first place.

As an example, `select count(*) from numbers` would select the number of rows in the table.

```
select n from numbers group by n having n > 0 and count(n) = 1;
```

2. (4 points) Fibonacci Round 333

Select all odd Fibonacci numbers less than 333, ordered from high to low. You can use as many or as few of these lines as you'd like. Remember that the Fibonacci sequence begins with 0 and 1.

```
with fibonacci (prev, curr) as (  
    select 0, 1 union  
    select curr, prev + curr from fibonacci where prev + curr < 333  
)  
select curr from fibonacci where curr % 2 != 0 order by -curr;
```

3. (4 points) Sing, Sing, Sing

Schema: `good_songs (song, artist, album, year_released)`

Select the names of all artists who have released more than two good songs in a single year. (Assume for the sake of the question that a “good song” is any song contained within the table. You may further assume that each of a certain artist’s songs has a different name, but do not assume that *all* of the song names are distinct.)

```
select artist from good_songs  
group by artist, year_released having count(*) > 2;
```