

Quiz 10

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1. Write a recursive select statement to compute the powers of two from $2^0, 2^1, \dots, 2^{10}$.

```
with  
  twos(pwr) as (  

```

```
  )  
select pwr from twos;
```

```
1  
2  
4  
8  
16  
32  
64  
128  
256  
512  
1024
```

2. We can use SQL to determine the anagrams of a word! Specifically, let's use SQL to find the anagrams of "cats".

```
with
  given(char, weight) as (
    select 'c', 1 union
    select 'a', 10 union
    select 't', 100 union
    select 's', 1000
  )

select -----
-----

from -----
-----

where -----;
```

```
acst
acts
asct
astc
atcs
atsc
cast
cats
csat
csta
ctas
ctsa
sact
satc
scat
scta
stac
stca
tacs
tasc
tcas
tcsa
tsac
tsca
```