

Quiz 10

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

```
with twos(exp) as (
```

)

```
select exp from twos;
```

1

2

4

8

16

32

64

128

256

512

1024

2. Write a SQL statement that finds all perfect squares from 156 to 1145.

```
create table squares as
```

with `naturals(n)` as (

)

```
select _____ as n
```

from _____, _____

where _____;

```

select * from squares
169
196
...
1024
1089

```

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

```

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

select -----
from -----
where -----;

```