

Write SQL select statements for the Library database to answer question 1 through 3.
Please type your answers

1. Find the libnums of libraries with a capacity greater than 1000.

FOR ALL PROBLEMS I WILL ASSUME THE TABLE NAMES FOLLOW THIS CONVENTION: Xxxxx since that was in your video but your create statements created tables in all lowercase.

Answer

```
SELECT libnum FROM Library  
WHERE capacity > 1000;
```

2. Find the number of copies housed in each library that house at least one copy. The result should be tuples of the form (libnum, number of copies).

Answer

```
SELECT libnum, COUNT(copynum) AS "number of copies" FROM Copy  
GROUP BY libnum;
```

3. Find the number of books written by each author who has written at least one book. The result should be tuples of the form (aid, first, last, number of books written).

Answer

```
SELECT aid, first, last, COUNT(booknum) AS "number of books written" from Author  
NATURAL JOIN Writes  
GROUP BY aid;
```

You do not state explicitly whether or not the author needed to have 100% written the book or not, so I assumed as long as an author contributed to a book it would be considered to be "written a book".

