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CS6016
Lab5

This lab will be worth less than the previous ones because it's a lot shorter.

Find the name of the patron who has checked out the most books.

select Name from (select CardNum, count(*) from CheckedOut group by CardNum order by count(*) limit 1) as c join Patrons on (c.CardNum = Patrons.CardNum);

Find the Titles of all books that were written by an author whose name starts with 'K'. You can assume author names always start with an uppercase letter

select Title from Titles where Author like 'K%';

Find the Authors who have written more than one book. Assume that two Authors with the same name are the same Author for this query.

select Author, count(*) from Titles group by Author having count(*) > 1;

Find the Authors for which the library has more than one book in inventory (this includes multiple copies of the same book). Assume that two Authors with the same name are the same Author for this query.

select Author from (select * from Inventory natural join Titles) as d group by Author having count(*) > 1;

Select * from _ as _alias_

The library wants to implement a customer loyalty program based on how many books each patron has checked out. Provide an SQL query that returns the names, number of books they have checked out, and loyalty level of each Patron. The loyalty level should be the string "Platinum" if they have checked out > 2 books, "Gold" if they have 2 books, "Silver" if they have 1 book, and "Bronze" if they have no books. Hint: remember that NULL represents an unknown in SQL (it does not represent 0).

```
select Name, CheckedOutCount,  
case  
when CheckedOutCount > 2 then 'Platinum'  
when CheckedOutCount = 2 then 'Gold'  
when CheckedOutCount = 1 then 'Silver'  
else 'Bronze'  
end as Loyalty  
from (select Name, count(Serial) as CheckedOutCount from Patrons natural left join  
CheckedOut group by CardNum) as p;
```