

1. Who checked out the book 'The Hobbit'?

Answer: Anand Beck

Used Query:

```
select member.name from book,member,checkout_item
where book.title='The Hobbit' and book.id=checkout_item.book_id
and member.id=checkout_item.member_id;
```

2. How many people have not checked out anything?

Answer: 37

Used Query:

```
select count(member.id) from member
where not exists(
    select * from checkout_item
    where checkout_item.member_id=member.id);
```

3. What books and movies aren't checked out?

Answer: 1984, Catcher in the Rye, Crouching Tiger, Hidden Dragon, Domain Driven Design, Fellowship of the Ring, Lawrence of Arabia, Office Space, Thin Red Line, To Kill a Mockingbird, Tom Sawyer

Used Query:

```
Select movie.title from movie
where not exists(
    select * from checkout_item
    where checkout_item.movie_id=movie.id)

Union

select book.title from book
where not exists(
    select * from checkout_item
    where checkout_item.book_id=book.id);
```

4. **Add the book 'The Pragmatic Programmer', and add yourself as a member. Check out 'The Pragmatic Programmer'. Use your query from question 1 to verify that you have checked it out. Also, provide the SQL used to update the database.**

```
INSERT INTO book VALUES(11,"The Pragmatic Programmer");
INSERT INTO member VALUES(43,"Elena Izquierdo");
INSERT INTO checkout_item VALUES(43,11,null);
```

Using my query from question 1 I have obtained the expected result as we can see in the next screenshot:

```
[sqlite> select member.name from book,member,checkout_item
[ ...> where book.title='The Pragmatic Programmer' and book.id=checkout_item.book_id
[ ...> and member.id=checkout_item.member_id;
Elena Izquierdo
sqlite> ]
```

5. **Who has checked out more than 1 item?**

Tip: Research the GROUP BY syntax.

Answer: Anand Beck, Frank Smith

Used Query:

```
select member.name from checkout_item,member
      where checkout_item.member_id=member.id
group by(checkout_item.member_id)
having count(*)>1;
```