Biblioteca Database answers:

Who checked out the book 'The Hobbit'?

Answer:

```
Anand Beck
```

Query:

```sql
1  SELECT name
2  FROM member INNER JOIN checkout_item, book
3    ON checkout_item.book_id = book.id AND checkout_item.member_id = member.id
4  WHERE book.title LIKE "The Hobbit";
```

How many people have not checked out anything?

Answer:

```
37
```

Query:

```sql
1  SELECT COUNT(*)
2  FROM member
3  WHERE member.id NOT IN
4       (SELECT member_id
5        FROM checkout_item);
```

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
```

Query:

```sql
1  SELECT title FROM book
2  WHERE book.id NOT IN
3       (SELECT book_id
4        FROM checkout_item
5        WHERE book_id IS NOT NULL)
6  UNION
7  SELECT title FROM movie
```

```
 8   WHERE movie.id NOT IN
 9       (SELECT movie_id
10        FROM checkout_item
11        WHERE movie_id IS NOT NULL);
```

Add the book 'The Pragmatic Programmer'

Query:

```
1   INSERT INTO book (title)
2   VALUES ('Pragmatic Programmer');
```

And add yourself as a member.

Query:

```
1   INSERT INTO member (name)
2   VALUES ('Dominic Bou-Samra');
```

Check out 'The Pragmatic Programmer'.

Query:

```
1   INSERT INTO checkout_item (member_id, book_id)
2   VALUES(
3     (SELECT id from member where name  = 'Dominic Bou-Samra'),
4     (SELECT id from book  where title = 'Pragmatic Programmer')
5   )
```

Use your query from question 1 to verify that you have checked it out.

Answer:

```
 Dominic Bou-Samra
```

Query:

```
1   SELECT name
2   FROM member INNER JOIN checkout_item, book
3     ON checkout_item.book_id = book.id AND checkout_item.member_id = member.id
4   WHERE book.title LIKE "Pragmatic Programmer";
```

Who has checked out more that 1 item?

Answer:

```
 Anand Beck
 Frank Smith
```

Query:

```sql
SELECT name FROM member
WHERE id in
  (SELECT member_id
   FROM  checkout_item
   GROUP BY member_id
   HAVING COUNT(member_id) > 1)
```

```sql
SELECT name FROM member
WHERE id in
  (SELECT member_id
   FROM  checkout_item
   GROUP BY member_id
   HAVING COUNT(member_id) > 1)
```