```sql
SELECT s.email, s.name
FROM student s
WHERE NOT EXISTS (
    SELECT *
    FROM book b
    WHERE authors = 'Adam Smith'
        AND NOT EXISTS (
            SELECT *
            FROM loan l
            WHERE l.book = b.isbn13
            AND l.borrower = s.email));
```

NOT Gate ($\neg$)

A book by Adam Smith exists (P)

AND Gate ($\wedge$)

The student borrows the book (Q)

$$\neg(P \wedge \neg Q) \equiv \neg P \vee \neg(\neg Q) \equiv \neg P \vee Q \equiv P \rightarrow Q$$