

Except

The EXCEPT keyword is a way of performing set difference. Unfortunately, MySQL does not support it. So how do you do set difference in MySQL? Let's look at the following:

```
mysql> SELECT * FROM Students;
+-----+-----+-----+
| SID | SName          | NumCredits |
+-----+-----+-----+
|  1 | Elmer Fudd     |         48 |
|  2 | Roger Ramjet   |         20 |
|  3 | Alice Wonderland |         72 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> SELECT S.SName from Students S
-> WHERE S.SName NOT IN
-> (SELECT SName FROM Students WHERE SName LIKE 'Roger%');
+-----+
| SName          |
+-----+
| Elmer Fudd     |
| Alice Wonderland |
+-----+
2 rows in set (0.03 sec)
```

If you are doing the set difference of two entire relations, simply use the primary key in the NOT IN clause.

```
mysql> SELECT * from Students S
-> WHERE S.SID NOT IN
-> (SELECT SID FROM Students WHERE SName LIKE 'Roger%');
+-----+-----+-----+
| SID | SName          | NumCredits |
+-----+-----+-----+
|  1 | Elmer Fudd     |         48 |
|  3 | Alice Wonderland |         72 |
+-----+-----+-----+
2 rows in set (0.02 sec)
```