

# Lab Exercise 10: Subqueries in SQL

```
mysql> desc users;
```

Field	Type	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	auto_increment
username	varchar(50)	YES	UNI	NULL	
email	varchar(100)	YES		NULL	

3 rows in set (0.02 sec)

```
mysql> desc posts;
```

Field	Type	Null	Key	Default	Extra
post_id	int	NO	PRI	NULL	auto_increment
user_id	int	YES	MUL	NULL	
content	text	YES		NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

4 rows in set (0.00 sec)

```
mysql> desc comments;
```

Field	Type	Null	Key	Default	Extra
comment_id	int	NO	PRI	NULL	auto_increment
post_id	int	YES	MUL	NULL	
user_id	int	YES	MUL	NULL	
comment_text	text	YES		NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

5 rows in set (0.00 sec)

```
mysql> select username from users where user_id in (select user_id from posts);
```

username
amit
rahsal

```
| rahul |
+-----+
3 rows in set (0.00 sec)
```

```
mysql> select content from posts where post_id in (select post_id from comments group by
post_id having count(comment_id) > 1);
```

```
+-----+
| content |
+-----+
| namaste! this is my first post. |
+-----+
1 row in set (0.01 sec)
```

```
mysql> select username, email from users where (user_id, user_id) in (select user_id, user_id
from comments);
```

```
+-----+-----+
| username | email |
+-----+-----+
| rahul | rahul@in |
| rahsal | rahsal@in |
| amit | amit@example.in |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select p.content, u.username
-> from posts p
-> join comments c on p.post_id = c.post_id
-> join users u on c.user_id = u.user_id;
```

```
+-----+-----+
| content | username |
+-----+-----+
| namaste! this is my first post. | rahsal |
| namaste! this is my first post. | amit |
| excited to be here! | rahul |
| good morning everyone! | rahsal |
+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> notee;
```