

```
mysql> show databases;
```

```
+-----+
| Database |
+-----+
| 4bsccm_2340146 |
| 4bsccm_2340177 |
| 4bsccm_2340179 |
| information_schema |
| mysql |
| performance_schema |
| raghini |
| sys |
| world |
+-----+
9 rows in set (0.00 sec)
```

```
mysql> drop database 4bsccm_2340179;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> use 4bsccm_2340146;
Database changed
mysql> show tables;
```

```
+-----+
| Tables_in_4bsccm_2340146 |
+-----+
| userposts |
| users |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> drop table userposts;
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> drop table users;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> CREATE TABLE Posts (
->     post_id INT AUTO_INCREMENT PRIMARY KEY,
->     user_id INT NOT NULL,
->     content TEXT NOT NULL,
->     created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
->     FOREIGN KEY (user_id) REFERENCES Users(user_id) ON DELETE
CASCADE
-> );
```

```
ERROR 1824 (HY000): Failed to open the referenced table 'users'
```

```
mysql>
```

```
mysql>
```

```
mysql> CREATE TABLE Users (
->     user_id INT AUTO_INCREMENT PRIMARY KEY,
->     username VARCHAR(50) UNIQUE NOT NULL,
->     email VARCHAR(100) UNIQUE NOT NULL,
->     created_at DATETIME DEFAULT CURRENT_TIMESTAMP
-> );
```

```
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> CREATE TABLE Posts (
->     post_id INT AUTO_INCREMENT PRIMARY KEY,
->     user_id INT NOT NULL,
->     content TEXT NOT NULL,
->     created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
->     FOREIGN KEY (user_id) REFERENCES Users(user_id) ON DELETE
CASCADE
-> );
```

Query OK, 0 rows affected (0.05 sec)

```
mysql> CREATE TABLE Likes (
->     like_id INT AUTO_INCREMENT PRIMARY KEY,
->     post_id INT NOT NULL,
->     user_id INT NOT NULL,
->     created_at DATETIME DEFAULT CURRENT_TIMESTAMP,
->     FOREIGN KEY (post_id) REFERENCES Posts(post_id) ON DELETE
CASCADE,
->     FOREIGN KEY (user_id) REFERENCES Users(user_id) ON DELETE
CASCADE
-> );
```

Query OK, 0 rows affected (0.05 sec)

```
mysql>
mysql> INSERT INTO Users (username, email) VALUES ('john_doe',
'john@example.com');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO Users (username, email) VALUES ('jane_doe',
'jane@example.com');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO Posts (user_id, content) VALUES (1, 'This is John\'s
first post!');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO Posts (user_id, content) VALUES (2, 'This is Jane\'s
first post!');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO Likes (post_id, user_id) VALUES (1, 2);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO Likes (post_id, user_id) VALUES (2, 1);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT * FROM Users;
+-----+-----+-----+-----+
| user_id | username | email | created_at |
+-----+-----+-----+-----+
| 1 | john_doe | john@example.com | 2025-01-14 22:36:04 |
| 2 | jane_doe | jane@example.com | 2025-01-14 22:36:09 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT content, created_at FROM Posts;
```

```
+-----+-----+
| content                | created_at          |
+-----+-----+
| This is John's first post! | 2025-01-14 22:36:34 |
| This is Jane's first post! | 2025-01-14 22:36:41 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT DISTINCT user_id FROM Likes;
```

```
+-----+
| user_id |
+-----+
|      1 |
|      2 |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT COUNT(DISTINCT user_id) AS unique_users FROM Likes;
```

```
+-----+
| unique_users |
+-----+
|           2 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT MIN(created_at) AS first_post_date, MAX(created_at) AS
last_post_date FROM Posts;
```

```
+-----+-----+
| first_post_date      | last_post_date      |
+-----+-----+
| 2025-01-14 22:36:34 | 2025-01-14 22:36:41 |
+-----+-----+
1 row in set (0.01 sec)
```

```
mysql> SELECT COUNT(*) AS total_posts FROM Posts;
```

```
+-----+
| total_posts |
+-----+
|           2 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM Posts LIMIT 1;
```

```
+-----+-----+-----+-----+
| post_id | user_id | content                | created_at          |
+-----+-----+-----+-----+
|      1 |      1 | This is John's first post! | 2025-01-14 22:36:34 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql>
```

```
mysql> UPDATE Users SET email = 'john_new@example.com' WHERE user_id = 1;
```

Query OK, 1 row affected (0.01 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Posts SET content = 'Updated content for all posts';  
Query OK, 2 rows affected (0.01 sec)  
Rows matched: 2 Changed: 2 Warnings: 0

mysql> UPDATE Users SET email = NULL WHERE user\_id = 1;  
ERROR 1048 (23000): Column 'email' cannot be null  
mysql> DELETE FROM Likes WHERE post\_id = 1 AND user\_id = 2;  
Query OK, 1 row affected (0.01 sec)

mysql> DELETE FROM Posts;  
Query OK, 2 rows affected (0.01 sec)

mysql> desc users;

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

4 rows in set (0.00 sec)

mysql> desc posts;

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

4 rows in set (0.00 sec)

mysql>

```
mysql> desc likes;
```

```
+-----+-----+-----+-----+-----+-----+
----+
| Field      | Type      | Null | Key | Default      | Extra
|
+-----+-----+-----+-----+-----+-----+
----+
| like_id    | int       | NO   | PRI | NULL         | auto_increment
|
| post_id    | int       | NO   | MUL | NULL         |
|
| user_id    | int       | NO   | MUL | NULL         |
|
| created_at | datetime  | YES  |     | CURRENT_TIMESTAMP |
DEFAULT_GENERATED |
+-----+-----+-----+-----+-----+-----+
----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> notee;
```