

Updating Data

Let us see how we can update data in the table.

- Typical syntax

```
UPDATE <table_name>
SET
    col1 = val1,
    col2 = val2
WHERE <condition>
```

- If **WHERE** condition is not specified all rows in the table will be updated.
- For now we will see basic examples for update. One need to have good knowledge about **WHERE** clause to take care of complex conditions. Using **WHERE** will be covered extensively as part of filtering the data at a later point in time.
- Set user role for user_id 1 as 'A'

```
%sql SELECT * FROM users
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

user_id	user_first_name	user_last_name	user_email_id	user_email_validated
1	Scott	Tiger	scott@tiger.com	False
2	Donald	Duck	donald@duck.com	False
3	Mickey	Mouse	mickey@mouse.com	False
4	Gordan	Bradock	gbradock0@barnesandnoble.com	False
5	Tobe	Lyness	tlynness1@paginegialle.it	False
6	Addie	Mesias	amesias2@twitpic.com	False

```
%%sql
UPDATE users
    SET user_role = 'A'
WHERE user_id = 1
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
1 rows affected.
```

```
[]
```

```
%sql SELECT * FROM users
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

user_id	user_first_name	user_last_name	user_email_id	user_email_validated
2	Donald	Duck	donald@duck.com	False
3	Mickey	Mouse	mickey@mouse.com	False
4	Gordan	Bradock	gbradock0@barnesandnoble.com	False
5	Tobe	Lyness	tlynness1@paginegialle.it	False
6	Addie	Mesias	amesias2@twitpic.com	False
1	Scott	Tiger	scott@tiger.com	False



- Set user_email_validated as well as is_active to true for all users

```
%sql SELECT user_id, user_email_validated, is_active FROM users
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

user_id	user_email_validated	is_active
2	False	False
3	False	True
4	False	True
5	False	True
6	False	True
1	False	False

```
%%sql
```

```
UPDATE users
SET
    user_email_validated = true,
    is_active = true
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

```
[]
```

```
%sql SELECT user_id, user_email_validated, is_active FROM users
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

user_id	user_email_validated	is_active
2	True	True
3	True	True
4	True	True
5	True	True
6	True	True
1	True	True

- Convert case of user_email_id to upper for all the records

```
%sql SELECT user_id, user_email_id FROM users
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

user_id	user_email_id
2	donald@duck.com
3	mickey@mouse.com
4	gbradock0@barnesandnoble.com
5	tlyness1@paginegialle.it
6	amesias2@twitpic.com
1	scott@tiger.com

```
%%sql
```

```
UPDATE users
SET
    user_email_id = upper(user_email_id)
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

```
[]
```

```
%sql SELECT user_id, user_email_id FROM users
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

user_id	user_email_id
2	DONALD@DUCK.COM
3	MICKEY@MOUSE.COM
4	GBRADOCK0@BARNESANDNOBLE.COM
5	TLYNESS1@PAGINEGIALLE.IT
6	AMESIAS2@TWITPIC.COM
1	SCOTT@TIGER.COM

- Add new column by name **user_full_name** and update it by concatenating **user_first_name** and **user_last_name**.

```
%%sql
```

```
ALTER TABLE users ADD COLUMN user_full_name VARCHAR(50)
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
Done.
```

```
[]
```

```
%sql SELECT user_id, user_first_name, user_last_name, user_full_name FROM users
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

user_id	user_first_name	user_last_name	user_full_name
2	Donald	Duck	None
3	Mickey	Mouse	None
4	Gordan	Bradock	None
5	Tobe	Lyness	None
6	Addie	Mesias	None
1	Scott	Tiger	None

```
%sql SELECT concat(user_first_name, ' ', user_last_name) FROM users
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

concat

Donald Duck

Mickey Mouse

Gordan Bradock

Tobe Lyness

Addie Mesias

Scott Tiger

```
%%sql
```

```
UPDATE users
SET user_full_name = upper(concat(user_first_name, ' ', user_last_name))
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

```
[]
```

```
%sql SELECT user_id, user_first_name, user_last_name, user_full_name FROM users
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
6 rows affected.
```

user_id	user_first_name	user_last_name	user_full_name
2	Donald	Duck	DONALD DUCK
3	Mickey	Mouse	MICKEY MOUSE
4	Gordan	Bradock	GORDAN BRADOCK
5	Tobe	Lyness	TOBE LYNESS
6	Addie	Mesias	ADDIE MESIAS
1	Scott	Tiger	SCOTT TIGER

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