

Inserting Data

Let us see how to insert the data into the table.

- We need to use INSERT clause to insert the data. Here is the sample syntax.

```
INSERT INTO <table_name> (col1, col2, col3)
VALUES (val1, val2, val3)
```

- If we don't pass columns after table name then we need to specify values for all the columns. It is not good practice to insert records with out specifying column names.
- If we do not specify value for **SERIAL** field, a sequence generated number will be used.
- It is not mandatory to pass the values for those fields where **DEFAULT** is specified. Values specified in **DEFAULT** clause will be used.
- It is mandatory to specify columns and corresponding values for all columns where **NOT NULL** is specified.

```
%load_ext sql
```

The sql extension is already loaded. To reload it, use:
%reload_ext sql

```
%env DATABASE_URL=postgresql://itversity_sms_user:sms_password@localhost:5432/itversity_sms_db
```

```
env:
DATABASE_URL=postgresql://itversity_sms_user:sms_password@localhost:5432/itversity_sms_db
```

```
%sql TRUNCATE TABLE users
```

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

```
[]
```

```
%%sql
```

```
INSERT INTO users (user_first_name, user_last_name, user_email_id)
VALUES ('Scott', 'Tiger', 'scott@tiger.com')
```

```
* 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
1 rows affected.
```

user_id	user_first_name	user_last_name	user_email_id	user_email_validated	user_password
1	Scott	Tiger	scott@tiger.com	False	None

◀ ▶

```
%%sql
```

```
INSERT INTO users (user_first_name, user_last_name, user_email_id)
VALUES ('Donald', 'Duck', 'donald@duck.com')
```

```
* 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
2 rows affected.
```

user_id	user_first_name	user_last_name	user_email_id	user_email_validated	user_password
1	Scott	Tiger	scott@tiger.com	False	Non
2	Donald	Duck	donald@duck.com	False	Non

◀ ▶

```
%%sql
```

```
INSERT INTO users (user_first_name, user_last_name, user_email_id, user_role, is_active)
VALUES ('Mickey', 'Mouse', 'mickey@mouse.com', 'U', true)
```

```
* 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
3 rows affected.
```

user_id	user_first_name	user_last_name	user_email_id	user_email_validated	user_password
1	Scott	Tiger	scott@tiger.com	False	Non
2	Donald	Duck	donald@duck.com	False	Non
3	Mickey	Mouse	mickey@mouse.com	False	Non

◀ ▶

```
%%sql
```

```
INSERT INTO users
(user_first_name, user_last_name, user_email_id, user_password, user_role, is_active)
VALUES
('Gordan', 'Bradock', 'gbradock0@barnesandnoble.com', 'h9LAz7p7ub', 'U', true),
('Tobe', 'Lyness', 'tlynessi@paginegialle.it', 'oEofndp', 'U', true),
('Addie', 'Mesias', 'amesias2@twitpic.com', 'ih7Y69u56', 'U', true)
```

```
* postgresql://itversity_sms_user:***@localhost:5432/itversity_sms_db
3 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
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	tlyness1@paginegialle.it	False
6	Addie	Mesias	amesias2@twitpic.com	False

