How to use command to access the postgreSQL?

Reference

<u>PostgreSQL Tutorial – Comprehensive Postgresql Tutorial</u>

prerequisite

• make sure you add the bin subdirectory to the path

```
# use following command to check whether you configure successfully
psql --version
```

• Then you can use psq1 command in the cmd or powershell

Connect to PostgreSQL database

```
1 | psql -h <host> -d <database> -U <username>
```

- -h: Specify the hostname or IP address of the database server to be connected. Can be omitted if localhost.
- -d: Specify the database name you want to connnect.
- -U: (Capital U) Specify the identity you want to log in.

After enter, input your password to connect the database

Switch to another database

```
1 \c <database> <username>
```

Switch to specified database using specified username.

Omit the <username> to switch the database

Cannot omit the <database> to switch the user(Avoid ambiguity)

List available databases

```
1 | \1
```

List available tables

To list all tables in the current database

```
1 | \dt
```

Describe a table

```
1 \d <table_name>
```

List available schema

schema is the namespace for a database object

```
1 | # To list all schemas of the currently connected database
2 | \dn
```

List available functions

```
1  # To list available functions in the current database
2 \df
```

List available views

view is a virtual table for further usage(create by create view)

```
1 | \dv
```

List users and their roles

```
1 | \du
```

check the working directory

```
1 | \! cd
```

Execute psql commands from a file

```
1 \i filename
2 # the file should in the working directory
```

Terminate a query or other task in progress

press ctr1+c

Get help on psql commands

```
1 | \?
```

Turn on/off query execution time

1 \timing

Edit command in your own editor

1 | \e

psql will open the text editor defined by your EDITOR environment variable

After you type the command in the editor(don't forget the ;), save it, and close the editor, psql will execute the command and return the result.

Quit psql

1 \q