PostgreSQL 修煉之道

Chapter 3

- CREATE TABLE 指令

```
testdb=# CREATE TABLE score (
student_name varchar(40),
chinese_score int,
math_score int,
test_date date
testdb(# );
CREATE TABLE
testdb=# \d
          List of relations
 Schema |  Name  | Type  |  Owner
--------+--------+-------+----------
 public | score  | table | postgres
(1 row)

testdb=# \d score
              Table "public.score"
    Column     |         Type          | Modifiers
---------------+-----------------------+-----------
 student_name  | character varying(40) |
 chinese_score | integer               |
 math_score    | integer               |
 test_date     | date                  |
```

- 插入語句：INSERT INTO 指令

```
testdb=# INSERT INTO student VALUES (1,'桐人',16);
INSERT 0 1
testdb=# INSERT INTO student VALUES (1,'亞絲娜',17);
ERROR:  duplicate key value violates unique constraint "student_pkey"
詳細資料: Key (no)=(1) already exists.
testdb=# INSERT INTO student VALUES (2,'亞絲娜',17);
INSERT 0 1
testdb=# INSERT INTO student VALUES (3,'愛莉絲',20);
INSERT 0 1
testdb=# select * from student ;
 no | student_name | age
----+--------------+-----
  1 | 桐人         |  16
  2 | 亞絲娜       |  17
  3 | 愛莉絲       |  20
(3 rows)
```

- 更新語句：SET 表示要設置的數據，以下面舉例，age 要改成 15

```
testdb=# UPDATE student SET age=15;
UPDATE 3
testdb=# select * from student ;
 no | student_name | age
----+--------------+-----
  1 | 桐人         |  15
  2 | 亞絲娜       |  15
  3 | 愛莉絲       |  15
(3 rows)
```

也可以加上 where

UPDATE student SET age=14 WHERE no=3;

Chapter 4

- 切換數據庫

\c 數據庫

```
testdb=# \c mytestdb
psql (9.2.24, server 9.6.10)
WARNING: psql version 9.2, server version 9.6.
         Some psql features might not work.
You are now connected to database "mytestdb" as user "postgres".
```

- **psql 連結數據庫的方式**

-h 指定要連接的數據庫所在的主機名或 IP 位址

-p 指定連接的數據庫端口

最後兩個參數數據庫名和用戶名

e.g.

psql –h 192.168.56.11 –p 5432 testdb postgres

- **\d 命令**
- **顯示 SQL 執行的時間**

先下**\timing on**

```
testdb=# \timing on
Timing is on.
testdb=# select * from class;
 no | class_name
----+------------
  1 | TeamA
  2 | TeamB
  3 | TeamC
  4 | TeamD
(4 rows)

Time: 0.546 ms
```

- **\i <文件名>：執行存儲在外部文件的 SQL 語句或命令**
- **自動提交方面的技巧**