

si-3. SQL による 結合

SQL 入門演習（SQLite3 を
利用）（全 3 回）

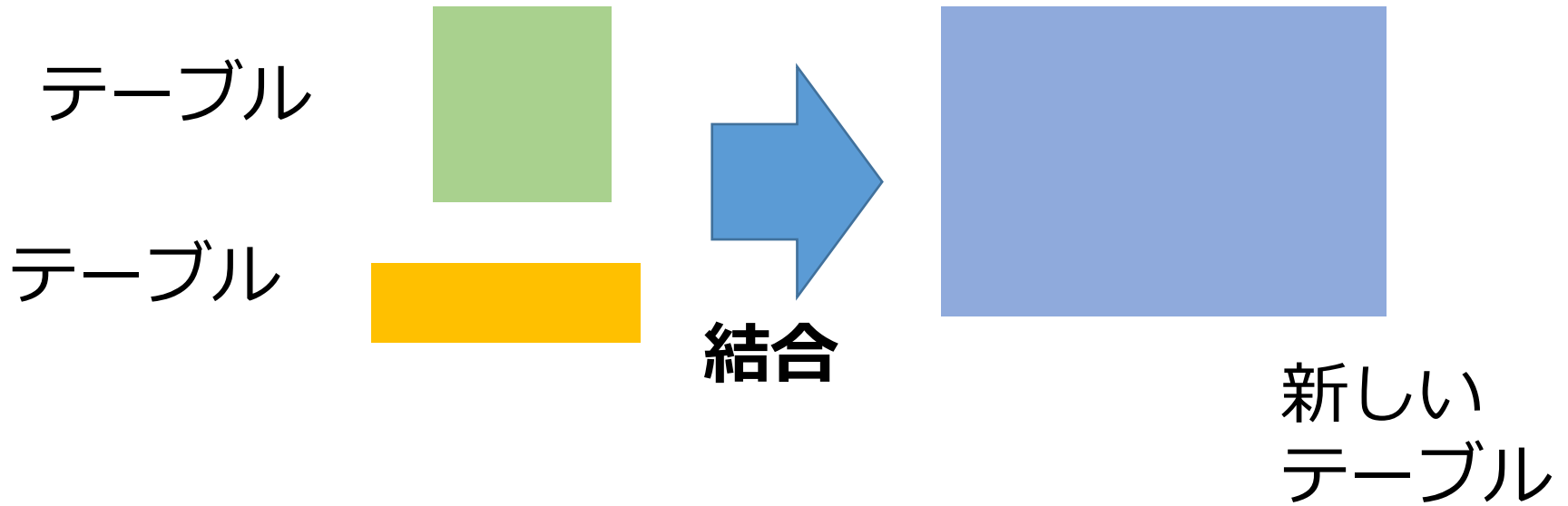
SQL の入門者へ

<https://www.kkaneko.jp/de/sqlite3/index.html>

金子邦彦




結合



テーブル定義 teacher

【SQL プログラム】

```
CREATE TABLE teacher (  
  id INTEGER PRIMARY KEY NOT NULL,  
  name TEXT NOT NULL,  
  teacher_name TEXT NOT NULL);
```

 選択C:\sqlite3\sqlite3.exe

```
SQLite version 3.35.5 2021-04-19 18:32:05  
Enter ".help" for usage hints.  
Connected to a transient in-memory database.  
Use ".open FILENAME" to reopen on a persistent database.  
sqlite> CREATE TABLE teacher (  
  ...>   id INTEGER PRIMARY KEY NOT NULL,  
  ...>   name TEXT NOT NULL,  
  ...>   teacher_name TEXT NOT NULL);  
sqlite> _
```

テーブル定義 student

【SQL プログラム】

```
CREATE TABLE student (  
  id INTEGER PRIMARY KEY NOT NULL,  
  student_name TEXT NOT NULL,  
  tid INTEGER NOT NULL,  
  score INTEGER);
```

```
sqlite> CREATE TABLE student (  
  ...>   id INTEGER PRIMARY KEY NOT NULL,  
  ...>   student_name TEXT NOT NULL,  
  ...>   tid INTEGER NOT NULL,  
  ...>   score INTEGER);  
sqlite> _
```

レコードの挿入と確認



【SQLプログラム】

```
INSERT INTO teacher VALUES(1, 'db', 'k');  
INSERT INTO teacher VALUES(2, 'python', 'a');  
SELECT * FROM teacher;
```

```
sqlite> INSERT INTO teacher VALUES(1, 'db', 'k');  
sqlite> INSERT INTO teacher VALUES(2, 'python', 'a');  
sqlite> SELECT * FROM teacher;  
1|db|k  
2|python|a  
sqlite> _
```

レコードの挿入と確認



【SQL プログラム】

```
INSERT INTO student VALUES(1, 'kk', 1, 85);  
INSERT INTO student VALUES(2, 'aa', 1, 75);  
INSERT INTO student VALUES(3, 'nn', 1, 90);  
INSERT INTO student VALUES(4, 'kk', 2, 85);  
INSERT INTO student VALUES(5, 'nn', 2, 75);  
SELECT * FROM student;
```

```
sqlite> INSERT INTO student VALUES (1, 'kk', 1, 85);  
sqlite> INSERT INTO student VALUES (2, 'aa', 1, 75);  
sqlite> INSERT INTO student VALUES (3, 'nn', 1, 90);  
sqlite> INSERT INTO student VALUES (4, 'kk', 2, 85);  
sqlite> INSERT INTO student VALUES (5, 'nn', 2, 75);  
sqlite> SELECT * FROM student;  
1 | kk | 1 | 85  
2 | aa | 1 | 75  
3 | nn | 1 | 90  
4 | kk | 2 | 85  
5 | nn | 2 | 75  
sqlite>
```

【SQL プログラム】

```
SELECT * FROM teacher, student  
WHERE teacher.id = student.tid;
```

```
sqlite> SELECT * FROM teacher, student  
...> WHERE teacher.id = student.tid;  
1 | db | k | 1 | kk | 1 | 85  
1 | db | k | 2 | aa | 1 | 75  
1 | db | k | 3 | nn | 1 | 90  
2 | python | a | 4 | kk | 2 | 85  
2 | python | a | 5 | nn | 2 | 75  
sqlite>
```