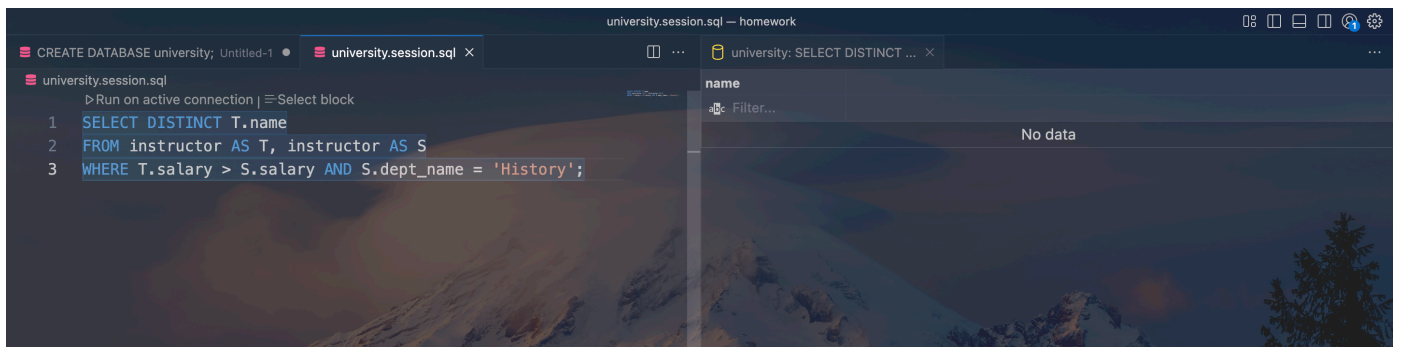


题目一：

导入数据库过程

```
((base) liuyongjie@liuyongjiedeMacBook-Pro ~ % /Library/PostgreSQL/17/bin/psql -U postgres -d university -f /Users/liuyongjie/Downloads/DDL+drop.sql
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
CREATE TABLE
DELETE 0
DELETE 0
DELETE 0
DELETE 0
DFI FTF 0
((base) liuyongjie@liuyongjiedeMacBook-Pro ~ % /Library/PostgreSQL/17/bin/psql -U postgres -d university -f /Users/liuyongjie/Downloads/largeRelationsInsertFile.sql
DELETE 0
DELETE 0
DELETE 0
DELETE 0
DFI FTF 0
```

查询过程



题目二

1.
SELECT * FROM instructor
WHERE name LIKE 'S%';

2.
SELECT * FROM instructor
WHERE LEFT(name, 1)='s';

3.
SELECT * FROM instructor
WHERE name ILIKE 's%';

~~~

|                              |                                             |
|------------------------------|---------------------------------------------|
| university.session.sql       | university: SELECT * FROM in...             |
| university.session.sql       |                                             |
| 1 SELECT * FROM instructor   | id name dept_name salary                    |
| 2 WHERE LEFT(name, 1) = 'S'; | 50330 Shuming Physics 108011.81             |
|                              | 73623 Sullivan Elec. Eng. 90038.09          |
|                              | 35579 Soisalon-Soininen Psychology 62579.61 |
|                              | 48570 Sarkar Pol. Sci. 87549.80             |
|                              | 95709 Sakurai English 118143.98             |

|                              |                                             |
|------------------------------|---------------------------------------------|
| university.session.sql       | university: SELECT * FROM in...             |
| university.session.sql       |                                             |
| 1 SELECT * FROM instructor   | id name dept_name salary                    |
| 2 WHERE LEFT(name, 1) = 'S'; | 50330 Shuming Physics 108011.81             |
|                              | 73623 Sullivan Elec. Eng. 90038.09          |
|                              | 35579 Soisalon-Soininen Psychology 62579.61 |
|                              | 48570 Sarkar Pol. Sci. 87549.80             |
|                              | 95709 Sakurai English 118143.98             |

|                            |                                             |
|----------------------------|---------------------------------------------|
| university.session.sql     |                                             |
| university.session.sql     |                                             |
| 1 SELECT * FROM instructor | id name dept_name salary                    |
| 2 WHERE name ILIKE 's%';   | 50330 Shuming Physics 108011.81             |
|                            | 73623 Sullivan Elec. Eng. 90038.09          |
|                            | 35579 Soisalon-Soininen Psychology 62579.61 |
|                            | 48570 Sarkar Pol. Sci. 87549.80             |
|                            | 95709 Sakurai English 118143.98             |

## 题目三

- 实现题目二

```
[university=# SELECT * FROM instructor WHERE name LIKE 'S%';
 id      |      name      | dept_name | salary
-----+-----+-----+-----
 50330   | Shuming        | Physics   | 108011.81
 73623   | Sullivan       | Elec. Eng. | 90038.09
 35579   | Soisalon-Soininen | Psychology | 62579.61
 48570   | Sarkar         | Pol. Sci.  | 87549.80
 95709   | Sakurai        | English   | 118143.98
(5 rows)
```

- 列出所有的数据库

```
[university=# \l
                                     List of databases
   Name      | Owner   | Encoding | Collate | Ctype | Access privileges
-----+-----+-----+-----+-----+-----
--
 postgres    | postgres | UTF8     | C       | C     |
 template0   | postgres | UTF8     | C       | C     | =c/postgres
+
              |          |          |         |       | postgres=CTc/postgre
s
 template1   | postgres | UTF8     | C       | C     | =c/postgres
+
              |          |          |         |       | postgres=CTc/postgre
s
 university  | postgres | UTF8     | C       | C     |
(4 rows)
```

- 列出当前数据库的所有表

```
[university=# \dt
```

### List of relations

| Schema | Name       | Type  | Owner    |
|--------|------------|-------|----------|
| public | advisor    | table | postgres |
| public | classroom  | table | postgres |
| public | course     | table | postgres |
| public | department | table | postgres |
| public | instructor | table | postgres |
| public | prereq     | table | postgres |
| public | section    | table | postgres |
| public | student    | table | postgres |
| public | takes      | table | postgres |
| public | teaches    | table | postgres |
| public | time_slot  | table | postgres |

(11 rows)

#### ○ 显示某张表的关系模式

```
[university=# \d instructor
```

| Table "public.instructor" |                       |           |          |         |
|---------------------------|-----------------------|-----------|----------|---------|
| Column                    | Type                  | Collation | Nullable | Default |
| id                        | character varying(5)  |           | not null |         |
| name                      | character varying(20) |           | not null |         |
| dept_name                 | character varying(20) |           |          |         |
| salary                    | numeric(8,2)          |           |          |         |

Indexes:

"instructor\_pkey" PRIMARY KEY, btree (id)

Check constraints:

"instructor\_salary\_check" CHECK (salary > 29000::numeric)

Foreign-key constraints:

"instructor\_dept\_name\_fkey" FOREIGN KEY (dept\_name) REFERENCES department(dept\_name) ON DELETE SET NULL

Referenced by:

TABLE "advisor" CONSTRAINT "advisor\_i\_id\_fkey" FOREIGN KEY (i\_id) REFERENCES instructor(id) ON DELETE SET NULL

TABLE "teaches" CONSTRAINT "teaches\_id\_fkey" FOREIGN KEY (id) REFERENCES instructor(id) ON DELETE CASCADE