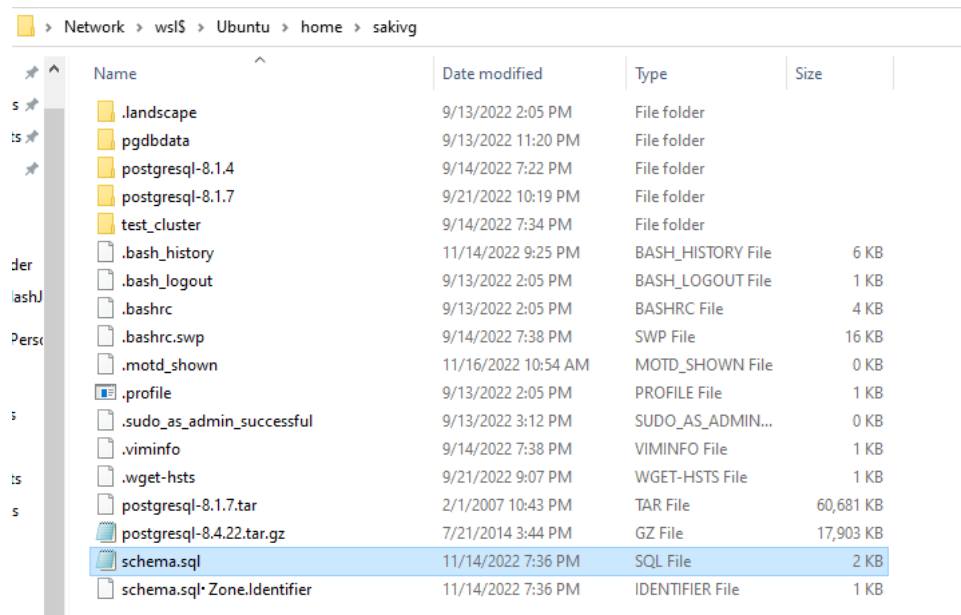


Get started with test query

Copy **schema.sql** to the path where the explorer opens after writing explorer.exe command



Start the server

```
/usr/local/pgsql/bin/pg_ctl start -D /usr/local/pgsql/data
```

Open a new ubuntu instance in your Windows and change to your postgres user

```
sudo su <name_of_your_postgres_user>
```

Create a **“test”** database

```
/usr/local/pgsql/bin/createdb test
```

Type below command to load schema and insert values into the tables:

```
/usr/local/pgsql/bin/psql test -f schema.sql
```

Test it

```
# switch to test database
/usr/local/pgsql/bin/psql test

# test it
SELECT * FROM emp;
```

Basic SHJ Test Query

```
SELECT e.name, d.name FROM emp e, dept d
WHERE e.dno = d.dno;
```

```
test=# select e.ename, d.dname from emp e, dept d where e.dno = d.dno
```

ename	dname
Smith	accounting
Kevin	sales
Sally	accounting
Matt	accounting
Jeff	shipping
Amy	sales
Tom	shipping
Alex	sales
Sam	accounting
Joe	management
Sean	management
Martin	sales
Simon	sales
Jane	accounting
Max	testing
Mike	management
Sarah	accounting
Jack	accounting
Jen	sales
John	management

(20 rows)

```
both inner (5.000000 tuples) and outer (20.000000 tuples) exhausted
Got 20 matches by probing inner hash table
Got 0 matches by probing outer hash table
Assuming outer is always probed first
```

Project SHJ Test Query

```
SELECT e1.name as "manager", e2.name as "employee"
FROM emp e1, emp e2, dept d, manages m
WHERE e1.eno = m.eno AND m.dno = d.dno AND d.dno = e2.dno
ORDER BY manager;
```

manager	employee
Jack	Jack
Jack	Sarah
Jack	Jane
Jack	Sam
Jack	Matt
Jack	Sally
Jack	Smith
John	Mike
John	Joe
John	Sean
John	John
Sean	Jeff
Sean	Max
Sean	Tom
Simon	Alex
Simon	Martin
Simon	Simon
Simon	Jen
Simon	Kevin
Simon	Amy

(20 rows)

both inner (20 tuples) and outer (5 tuples) exhausted
 Got 0 matches by probing inner hash table
 Got 5 matches by probing outer hash table
 Assuming outer is always probed first
 both inner (5 tuples) and outer (20 tuples) exhausted
 Got 20 matches by probing inner hash table
 Got 0 matches by probing outer hash table
 Assuming outer is always probed first
 both inner (20 tuples) and outer (5 tuples) exhausted
 Got 5 matches by probing inner hash table
 Got 15 matches by probing outer hash table
 Assuming outer is always probed first