

Postgres_fdw

```
postgres=# \dx
               List of installed extensions
  Name      | Version | Schema      | Description
-----+-----+-----+-----
plpgsql    | 1.0     | pg_catalog  | PL/pgSQL procedural language
(1 row)

postgres=# CREATE EXTENSION postgres_fdw;
CREATE EXTENSION
postgres=# \dx
               List of installed extensions
  Name      | Version | Schema      | Description
-----+-----+-----+-----
plpgsql    | 1.0     | pg_catalog  | PL/pgSQL procedural language
postgres_fdw | 1.1     | public      | foreign-data wrapper for remote PostgreSQL servers
(2 rows)

postgres=# CREATE SERVER remote_server_17
FOREIGN DATA WRAPPER postgres_fdw
OPTIONS (host '192.168.31.105', port '5432', dbname 'test');
CREATE SERVER
postgres=# CREATE USER MAPPING FOR CURRENT_USER
SERVER remote_server_17
OPTIONS (user 'postgres', password 'postgres');
CREATE USER MAPPING
postgres=# CREATE FOREIGN TABLE ft_emp (
EMPNO NUMERIC(4) ,
          ENAME VARCHAR(10),
          JOB VARCHAR(9),
          MGR NUMERIC(4),
          HIREDATE DATE,
          SAL NUMERIC(7, 2),
          COMM NUMERIC(7, 2),
          DEPTNO NUMERIC(2)
)
SERVER remote_server_17
OPTIONS (schema_name 'public', table_name 'emp');
CREATE FOREIGN TABLE
postgres=# select
          srvname as name,
          srvowner::regrole as owner,
          fdwname as wrapper,
          srvoptions as options
from pg_foreign_server

join pg_foreign_data_wrapper w on w.oid = srvfdw;
          name      | owner  | wrapper  | options
-----+-----+-----+-----
remote_server_17 | postgres | postgres_fdw | {host=192.168.31.105,port=5432,dbname=test}
(1 row)

postgres=# select * from information_schema.foreign_tables;
 foreign_table_catalog | foreign_table_schema | foreign_table_name | foreign_server_catalog | foreign_server_name
-----+-----+-----+-----+-----
 postgres              | public                | ft_emp              | postgres                | remote_server_17
(1 row)
```

We are access the remote table through fdw. PFB

```
postgres=# SELECT * FROM ft_emp;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00		20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00		20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00		30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00		10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00		20
7839	KING	PRESIDENT		1981-11-17	5000.00		10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00		20
7900	JAMES	CLERK	7698	1981-12-03	950.00		30
7902	FORD	ANALYST	7566	1981-12-03	3000.00		20
7934	MILLER	CLERK	7782	1982-01-23	1300.00		10

(14 rows)

Remote database table details :

```
test=# select * from emp;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00		20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
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(14 rows)