Step 1: Create First sample table and database:

```
CREATE DATABASE Database_One;

CREATE TABLE public.tbl_Employee
(
EmpID INT PRIMARY KEY
,EmpName CHARACTER VARYING
,EmpGender CHAR(1)
);

INSERT INTO public.tbl_Employee
VALUES
(1,'Anvesh','M')
,(2,'Neevan','M')
,(3,'Martin','M');
```

```
create table tbl_department ( id int primary key , name varchar, EmpID int, foreign
key(empid) references tbl_employee(empid));

select * from tbl_employee te ;
insert into tbl_department values(101,'database',1);
insert into tbl_department values(102,'database',1);
insert into tbl_department values(103,'database',2);
insert into tbl_department values(104,'java',3);
```

Step 2: Create Second sample table and database:

```
CREATE DATABASE Database_Two;
```

Step 1: Connect to Database_Two:

Step 2: Install / Create DBLink Extenstion:

```
CREATE EXTENSION dblink;
```

Step 3: Verify the system tables of DBLink

```
SELECT pg_namespace.nspname, pg_proc.proname
FROM pg_proc, pg_namespace
WHERE pg_proc.pronamespace=pg_namespace.oid
   AND pg_proc.proname LIKE '%dblink%';
```

Step 4: Test the connection for Database_One:

```
  SELECT dblink_connect('host=localhost user=postgres password=password
dbname=first_db');
```

Step 5: Create foreign data wrapper and server for global authentication.

You can use this server object for cross database queries:

```
 CREATE FOREIGN DATA WRAPPER postgres VALIDATOR postgresql_fdw_validator;
CREATE SERVER demodbrnd_postgres FOREIGN DATA WRAPPER postgres OPTIONS (hostaddr
'127.0.0.1', dbname 'first_db');
```

Step 6: Mapping of user and server:

```
CREATE USER MAPPING FOR postgres SERVER demodbrnd_postgres OPTIONS (user 'postgres',
password 'password');
```

Step 7: Test this server:

```
SELECT dblink_connect('demodbrnd_postgres');
```

Step 8: Now, you can SELECT the data of Database_One from Database_Two:

```
SELECT * FROM public.dblink
('demodbrnd_postgres','SELECT e.EmpID,e.EmpName,d.name FROM public.tbl_Employee e
join public.tbl_department d on e.empid=d.empid')
AS DATA(EmpID INTEGER,EmpName CHARACTER varying,name CHARACTER varying);
```

```
CREATE EXTENSION dblink;

SELECT pg_namespace.nspname, pg_proc.proname
FROM pg_proc, pg_namespace
WHERE pg_proc.pronamespace=pg_namespace.oid
   AND pg_proc.proname LIKE '%dblink%';


  SELECT dblink_connect('host=localhost user=postgres password=password dbname=hr');


 CREATE FOREIGN DATA WRAPPER postgres1 VALIDATOR postgresql_fdw_validator;
CREATE SERVER demodbrnd_postgres1 FOREIGN DATA WRAPPER postgres OPTIONS (hostaddr
'127.0.0.1', dbname 'hr');

CREATE USER MAPPING FOR postgres SERVER demodbrnd_postgres1 OPTIONS (user 'postgres',
password 'password');
```

```
SELECT dblink_connect('demodbrnd_postgres1');


create table test
as

SELECT * FROM public.dblink
('demodbrnd_postgres','SELECT e.EmpID,e.EmpName,d.name FROM public.tbl_Employee e
join public.tbl_department d on e.empid=d.empid')
AS DATA(EmpID INTEGER,EmpName CHARACTER varying,name CHARACTER varying);
select * from test;



SELECT * FROM public.dblink
('demodbrnd_postgres1','SELECT employee_id,first_name,last_name from
public.employees')
AS DATA(EmpID INTEGER,EmpName CHARACTER varying,name CHARACTER varying);
select * from test;
```

mysql to postgresql

create user and priviliges
Bibek-mysql
Mysql123

-- step 1: Create extension
CREATE EXTENSION mysql_fdw;

drop foreign data wrapper

select * from pg_extension;

-- drop server mysql_server;

-- step 2: create server with server IP Address
CREATE SERVER mysql_server_10
FOREIGN DATA WRAPPER mysql_fdw
OPTIONS (host '192.168.40.148', port '3306');

--step 3: Create user mapping with mysql credentials
CREATE USER MAPPING FOR root
SERVER mysql_server_10
OPTIONS (username 'my_sql_username', password 'password');

-- DROP USER MAPPING IF EXISTS FOR postgres SERVER mysql_server;

-- step 4: create DDL on destination database like on source database
CREATE FOREIGN TABLE emptest
(
id int,
name varchar
)
SERVER mysql_server_10
OPTIONS (dbname 'test', table_name 'employee');

select * from emptest;

Feb 10

creating user and privileges
user bibek-msql
password = Mssql@123

```
drop server mssql_server cascade;
CREATE SERVER mssql_server
FOREIGN DATA WRAPPER tds_fdw
OPTIONS (servername '192.168.50.185', port '1433', database 'master');

ALTER SERVER mssql_server OWNER TO postgres;

CREATE USER MAPPING FOR postgres
SERVER mssql_server
OPTIONS (username 'bibek-mssql', password 'Mssql@123');

drop foreign table test_mssql;


CREATE FOREIGN TABLE test_mssql (
  ID int,
```

```
  name varchar)
SERVER mssql_server
OPTIONS (schema_name 'dbo', table_name 'test');

select * from test_mssql;
```