

Summary: How to access PostgreSQL from Oracle database

Prerequisites

unixODBC and unixODBC-devel

Download the PostgreSQL Repository

on Oracle server set up ODBC data source for PostgreSQL database

```
# wget https://download.postgresql.org/pub/repos/yum/9.4/redhat/rhel-7-  
x86_64/pgdg-centos94-9.4-3.noarch.rpm #or file attachments  
  
# rpm -ivh pgdg-centos94-9.4-3.noarch.rpm
```

Configure the PostgreSQL ODBC Driver in the Odbcinst.ini File (/etc/odbcinst.ini)

```
[PostgreSQL]  
Description = ODBC for PostgreSQL  
Driver = /usr/pgsql-9.4/lib/psqlodbc.so  
Setup = /usr/lib64/libodbcpsqlS.so  
FileUsage = 1
```

Test Your ODBC Driver

```
# odbcinst -q -d
```

Configure Our ODBC Connections in /etc/odbc.ini

```
[ODBC Data Sources]  
PG_LINK = PostgreSQL  
  
[PG_LINK]  
Description      = Postgres DB  
Driver           = PostgreSQL  
Database         = homestead  
Servername       = 127.0.0.1  
Username         = homestead  
Password         = secret  
Port             = 5432  
Protocol         = 9.4 #follow version install  
ReadOnly         = No  
RowVersioning    = No  
ShowSystemTables = No  
ConnSettings     =
```

***remark:** [<your_ODBC_NAME>]

Connect to PostgreSQL with ODBC isql Command

```
# isql -v PG_LINK
+-----+
| Connected! |
```

Configure HS for Oracle database: create file initPG_LINK.ora under \$ORACLE_HOME/hs/admin directory

```
HS_FDS_CONNECT_INFO = PG_LINK
HS_FDS_TRACE_LEVEL = 0
HS_FDS_SHAREABLE_NAME = /usr/lib64/libodbc.so
HS_LANGUAGE=AMERICAN_AMERICA.WE8ISO8859P1
set ODBCINI=/etc/odbc.ini
```

*remark: filename init<your_ODBC_NAME>.ora

```
HS_FDS_CONNECT_INFO = <your_ODBC_NAME>
```

Modify \$ORACLE_HOME /network/admin/tnsnames.ora; add the following entry:

```
PG_LINK =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP) (HOST = testbed.localdomain) (PORT = 1521))
    (CONNECT_DATA =
      (SID = PG_LINK)
    )
    (HS=OK)
  )
```

*remark: <your_ODBC_NAME> = ...

```
HOST = <ORA_DB_HOSTNAME>
```

```
SID = <your_ODBC_NAME>
```

Modify \$ORACLE_HOME /network/admin/listener.ora; add the following static entry in the SID_LIST:

```
SID_LIST_LISTENER =  
  (SID_LIST=  
    (SID_DESC=  
      (SID_NAME=PG_LINK)  
      (ORACLE_HOME=/u01/app/oracle/product/11.2/db_1) # $ORACLE_HOME  
      (PROGRAM=dg4odbc)  
    )  
  )  
)
```

*remark: SID_NAME = <your_ODBC_NAME>

SID_LIST_<your_LISTENER_NAME> = ...

ORACLE_HOME = \$ORACLE_HOME

Reload listener configuration

```
lsnrctl reload LISTENER #<your_LISTENER_NAME>
```

Create database link: (PL SQL)

```
# create database link <your_LISTENER_NAME> connect to "<uname>" identified by  
"<pname>" using 'PG_LINK';
```

Thank you. Gif your enjoy !

Thank for Ref:

<http://www.uptimemadeeasy.com/linux/install-postgresql-odbc-driver-on-linux/>

<https://dbaspot.wordpress.com/2013/05/29/how-to-access-postgresql-from-oracle-database/>

The screenshot shows the Oracle SQL Developer interface. The top pane contains a SQL script with the following content:

```
1 create database link PG_LINK connect to "XXXXXXXXXX" identified by "XXXXXXXXXX" using 'PG_LINK';
2 create database link PG_LINK2 connect to "XXXXXXXXXX" identified by "XXXXXXXXXX" using 'TEST';
3
4 SELECT * FROM "acesrdata"@PG_LINK;
5 SELECT 1 FROM dual@PG_LINK2;
6 DROP DATABASE link PG_LINK2;
7 --PostgreSQL PG_LINK
8 CREATE DATABASE LINK PG_LINK4
9     CONNECT TO "XXXXXXXXXX" IDENTIFIED BY "XXXXXXXXXX"
10    USING '(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=192.168.1.105)(PORT=1521))(CONNECT_DATA=(SID=PG_L
```

The bottom pane shows the results of the SQL script. The first query, `SELECT * FROM "acesrdata"@PG_LINK;`, returned a table with 10 columns and 7 rows of data. The columns are: ABC company, ABC lineno, ABC pordno, ABC modlcd, 123 lotqty, ABC bcasno, ABC serialno, and ABC serialstart. The data is as follows:

	ABC company	ABC lineno	ABC pordno	ABC modlcd	123 lotqty	ABC bcasno	ABC serialno	ABC serialstart
1	W	W F2	W849048	M9B9-11A	963	[NULL]	6018DP0000044562375880053	000001
2	W	W F2	W849048	M9B9-11A	963	[NULL]	6018DP00000416018DP0000041	000001
3	W	W C5	W723110	M3VH-01A	1,280	[NULL]	0655702A12810655702A1281	0001
4	W	W C5	W723110	M3VH-01A	1,280	[NULL]	0655702A12820655702A1282	0001
5	W	W C5	W723110	M3VH-01A	1,280	[NULL]	0655702A12830655702A1283	0001
6	W	W C5	W723110	M3VH-01A	1,280	[NULL]	0655702A12836925876356683	0001
7	W	W F1	W849048	M9B9-11A	963	[NULL]	6018DP000000/	000001