

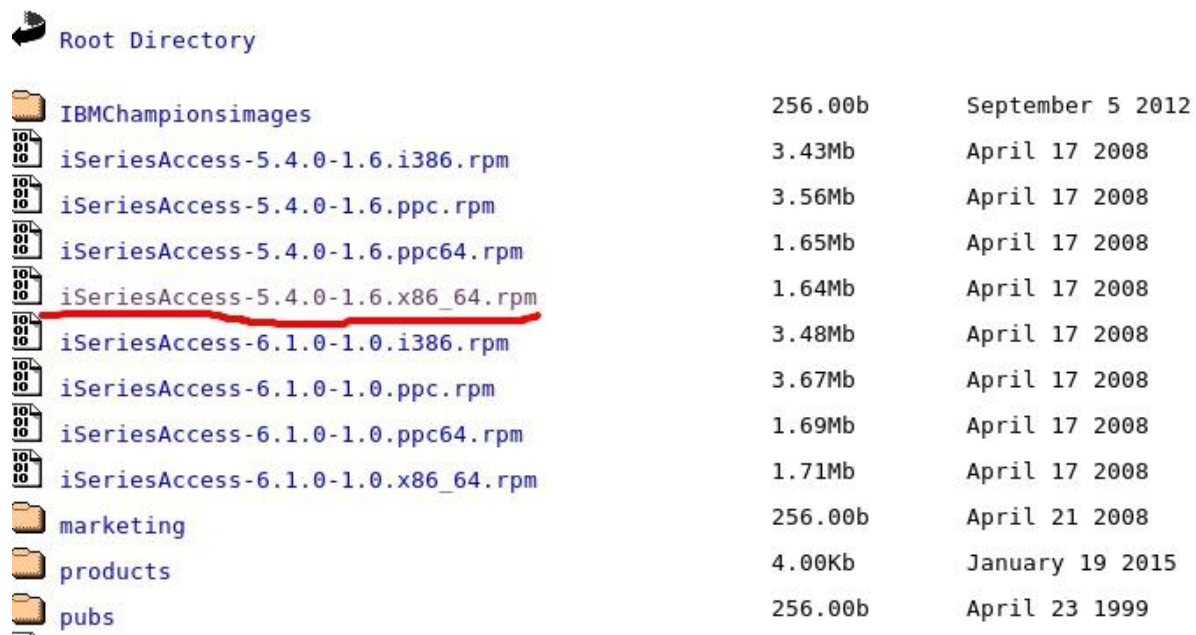
Summary: How to access DB2 from Oracle database













Prerequisites

unixODBC and unixODBC-devel

Download one of the following, depending on your required DB2 version and architecture you can get this from the IBM website, or attachments file, or from here:

<http://www.mmnt.net/db/0/0/public.dhe.ibm.com/as400>



Root Directory		
	IBMChampionsimages	256.00b September 5 2012
	iSeriesAccess-5.4.0-1.6.i386.rpm	3.43Mb April 17 2008
	iSeriesAccess-5.4.0-1.6.ppc.rpm	3.56Mb April 17 2008
	iSeriesAccess-5.4.0-1.6.ppc64.rpm	1.65Mb April 17 2008
	<u>iSeriesAccess-5.4.0-1.6.x86_64.rpm</u>	1.64Mb April 17 2008
	iSeriesAccess-6.1.0-1.0.i386.rpm	3.48Mb April 17 2008
	iSeriesAccess-6.1.0-1.0.ppc.rpm	3.67Mb April 17 2008
	iSeriesAccess-6.1.0-1.0.ppc64.rpm	1.69Mb April 17 2008
	iSeriesAccess-6.1.0-1.0.x86_64.rpm	1.71Mb April 17 2008
	marketing	256.00b April 21 2008
	products	4.00Kb January 19 2015
	pubs	256.00b April 23 1999

Then install IBM as400 client Access using something like this:

```
# sudo yum install alien libmotif3
# sudo alien -dckv iSeriesAccess-5.4.0-1.6.x86_64.rpm
# sudo dpkg -i iseriesaccess_5.4.0-1.6_amd64.deb
```

IBM i Access Client Solutions Linux Application Package

```
# sudo ln -s libodbcinst.so.2 /usr/lib64/libodbcinst.so.1
```

Additional: <https://www.ibm.com/developerworks/ibmi/library/i-ibmi-access-client-solutions-linux/>

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

***This step to Cross because system auto generate**

Test Your ODBC Driver

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

Configure Our ODBC Connections in /etc/odbc.ini

```
[ODBC Data Sources]
PG_LINK = PostgreSQL
DB2_LINK = iSeries Access ODBC Driver 64-bit

[PG_LINK]
...
[DB2_LINK]
Description = iSeries Access ODBC Driver
Driver = iSeries Access ODBC Driver 64-bit
System = 127.0.0.1 #TCP IP
UserID = homestead #uname
Password = secret #upass
Naming = 1
DefaultLibraries = homestead #DATABASE
Database = homestead #DATABASE
ConnectionType = 2
CommitMode = 2
ExtendedDynamic = 1
DefaultPkgLibrary = QGPL
DefaultPackage = A/DEFAULT(IBM),2,0,1,0,512
AllowDataCompression = 1
LibraryView = 0
AllowUnsupportedChar = 1
ForceTranslation = 1
```

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

Connect to PostgreSQL with ODBC isql Command

```
# isql -v DB2_LINK
+-----+
| Connected! |
```

Configure HS for Oracle database: create file initDB2_LINK.ora under \$ORACLE_HOME/hs/admin directory

```
HS_FDS_CONNECT_INFO = PG_LINK
HS_FDS_CONNECT_INFO = DB2_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 =
...
DB2_LINK =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP) (HOST = testbed.localdomain) (PORT = 1521))
    (CONNECT_DATA =
      (SID = DB2_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)
      (PROGRAM=dg4odbc)
    )
    (SID_DESC=
      (SID_NAME=DB2_LINK)
      (ORACLE_HOME=/u01/app/oracle/product/11.2/db_1)
      (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 'DB2_LINK';
```

Thank guys. 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/>

<https://stackoverflow.com/questions/19184302/connecting-to-an-ibm-as-400-db2-database>

The screenshot shows the DBeaver 6.1.0 interface. The top menu bar includes File, Edit, Navigate, Search, SQL Editor, Database, Window, and Help. The toolbar contains various icons for file operations, database actions, and editing. The left sidebar shows the Database Navigator with a tree view of the database structure. The main window displays the SQL Editor with a script named 'Script-48'. The script contains the following SQL code:

```
create database link DB2_LINK connect to "DB2" identified by "DB2" using 'DB2_LINK';
SELECT * FROM TABLE1;
SELECT * FROM "DMRPSMPF"@"DB2_LINK";
```

The bottom pane shows the Result grid with 14 rows of data. The columns are labeled as follows:

Grid	ABC M3PONO	ABC M3MRPCNO	ABC M3PSNO	ABC M3VNNO	ABC M3CYNO	123 M3RQQT	123 M3LSQT	123 M3ORQT
1	W149A01	F40	V026024B02	02351	JP	300	0	300
2	W149A01	F40	069X180559	12975	TH	300	0	300
3	W149A01	F40	709WPAA012	1302W	TH	600	0	600
4	W149A01	F42	D2201ZB600	12978	SG	300	0	300
5	W149A01	F42	E61UM5221D	02351	JP	300	0	300
6	W149A01	F42	E634M2101D	22645	TH	300	0	300
7	W149A01	F42	E634M3330D	22645	TH	300	0	300
8	W149A01	F42	I05F0M033F	20760	SG	300	0	300
9	W149A01	F42	069X92T169	12975	TH	300	0	300
10	W149A01	F42	139MK025A0	2611K	TH	300	2	302
11	W149A01	240	069X180379	12975	TH	300	0	300
12	W149A01	240	126R000051	02351	JP	240	0	240
13	W149A01	720	701WPAB270	2630K	TH	300	0	300
14	W149A01	720	701WPAB272	2630K	TH	300	0	300