

# ODBC for QAD

## Windows

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No ODBC setup required. See R documentation for `set.qad.connection` and `example connection`.

## Mac / Nix

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### Install unixODBC

If you're using macports:

```
$ sudo port install unixODBC
```

If you are using brew:

```
$ brew install unixODBC
```

### Install FreeTDS

If you're using macports:

```
$ sudo port install freetds +mssql +odbc
```

If you're using brew:

```
$ brew install freetds --with-unixodbc --with-mssql
```

### Add ODBC configuration

```
~/.odbc.ini:  
[qadDSN]  
Driver = /opt/local/lib/libtdsodbc.so  
Servername = qad  
Trace = No  
Database = qai  
Schema = db_datareader
```

**NOTE:** The driver location for **mapports** is

`/opt/local/lib/libtdsodbc.so` and

`/usr/local/lib/libtdsodbc.so` for **brew**. Adjust the Driver setting accordingly.

## Add FreeTDS configuration

```
~/.freetds.conf  
[qad]  
host = NY-RANDD-A02.tlr.thomson.com  
port = 1433  
tds version = 8.0  
client charset = UTF-8
```

**NOTE:** NY-RANDD-A02.tlr.thomson.com - is an example hostname, your hostname will be different.

## Test connection

Start SQL shell:

```
$ isql -v qadDSN <LOGINNAME> <PASSWORD>
```

Execute a query:

```
SELECT TOP 5 OwnInfo.OwnerName,OwnSecInfo.SecName,OwnHoldDet.QtrDate,OwnHoldDet.SharesHeld,OwnHoldDet.ValueHeld FROM OwnHoldDet INNER JOIN OwnInfo ON OwnHoldDet.OwnerCode = OwnInfo.OwnerCode LEFT OUTER JOIN OwnSecInfo ON OwnHoldDet.SecurityCode = OwnSecInfo.SecurityCode;
```

Should return something like:

OwnerName	SecName	QtrDate	SharesHeld	ValueHeld
AR Asset Management, Inc.	AMR Corp	1998-12-31	00:00:00.00	0 11500 682813
AR Asset Management, Inc.	AMR Corp	1998-12-31	00:00:00.00	0 11500 682813
AR Asset Management, Inc.	AMR Corp	1999-03-31	00:00:00.00	0 11500 673469
AR Asset Management, Inc.	AMR Corp	1999-03-31	00:00:00.00	0 11500 673469
AR Asset Management, Inc.	AMR Corp	1999-06-30	00:00:00.00	0 11500 784875

Connect from R

In shell:

```
$ export ODBCINI=~/.odbc.ini
$ R
```

In R:

```
> library(RODBC)
> conn <- odbcConnect("qadDSN", "<LOGINNAME>", "<PASSWORD>", readOnlyOptimize=TRUE)
```

## References

- [Accessing MS SQL Server from Mac OS X \(or Linux\): FreeTDS, unixODBC, RODBC, R](#)

