

# adodbapi

Back in Python 2.4 and 2.5 days, I needed to connect to SQL Server 2005 and Microsoft Access and one or both were set up to only use Microsoft's ADO connection methodology. The solution at that time was to use the **adodbapi** package. This package should be used when you need to access a database via Microsoft ADO. I should also note that this package hasn't been updated since 2014, so keep that in mind as well. Hopefully you won't need to use this package as Microsoft also provides an ODBC connection driver nowadays, but should you have to support ADO-only for some reason, then this is the package for you!

*Note: adodbapi depends on having the PyWin32 package installed.*

To install adodbapi, you just need to do the following:

```
pip install adodbapi
```



Let's take a look at a simple example I used to connect to Microsoft Access long ago:

```
import adodbapi

database = "db1.mdb"
constr = 'Provider=Microsoft.Jet.OLEDB.4.0; Data Source=%s' % database
tablename = "address"

# connect to the database
conn = adodbapi.connect(constr)

# create a cursor
cur = conn.cursor()

# extract all the data
sql = "select * from %s" % tablename
cur.execute(sql)

# show the result
result = cur.fetchall()
```



```
for item in result:
    print (item)

# close the cursor and connection
cur.close()
conn.close()
```

First we create a connection string. These strings specify how to connect to Microsoft Access or SQL Server. In this case, we are connecting to Access. To actually connect to the database, you call the **connect** method and pass it your connection string. Now you have a connection object but to interact with the database, you will need a **cursor**. We create that next. The next piece is to actually write a SQL query. In this case, we want everything in the database, so we select \* and then pass that SQL statement to our cursor's **execute** method. To get the result, we call **fetchall**, which will return all the results. Finally we close the cursor and then the connection.

If you do end up using the adodbapi package, I highly recommend looking up their quick reference document. It is very helpful in figuring out the package as it isn't documented all that well.