





- Open Access® database or create a new one
- Click on “External Data”
- Click on “ODBC Database”
- Click on “Link to the data source by creating a linked table”, then “OK”
- Select your DSN
- Select the table(s) you want
- Click “Cancel” when Access® asks for a unique record identifier



- Anything you can do with a table you create in Access[®], you can do with a linked table
 - Open table
 - Filter table
 - Write queries against table, including joining to other tables
 - Rename table within Access[®] (does not affect table name in Oracle[®])
 - Depending on the privileges granted to you in Oracle[®], you may be able to add, delete, edit records – DON'T DO THAT PLEASE
- Let's try it out in Access[®], then we can talk about some guidelines for working with linked tables



- When you write queries using Access[®] SQL, they are translated into Oracle[®] PL/SQL – sometimes **very** poorly
- When you join Oracle[®] tables to Access[®] tables, you are making Access[®] evaluate the join(s) and you are forcing a lot of data to travel over the network
- Access[®] does a very poor job of optimizing – you can't take advantage of the fact that the Oracle[®] server has much more processing power than your PC
- Access[®] does not support many of the functions available in Oracle[®] PL/SQL



- Note: these are not hard and fast rules, sometimes there is no reasonable way around them
 - Don't join Access® and Oracle® tables where the purpose of the Access® table is to determine which rows you want from Oracle®
 - Don't write update queries including Oracle® tables
 - Avoid using custom VBA functions in queries against Oracle® tables where the result of the function is used in a “where” or “having” clause



- **Do:**
 - Write queries against Oracle® tables (preferably pass-thru) to summarize and filter data using the big server, then use that query as the source in a second query joined to an Access® table or
 - Summarize data in a query that creates a local Access® table where you will be running multiple different queries against that table
 - Develop a feel for the tradeoff between the time it takes you to develop the most efficient queries versus the time it takes to run inefficient queries