Command Reference: openHydroBase()
Open a connection to a HydroBase database

The `openHydroBase()` command opens a connection to a HydroBase database, allowing data to be read from the database (e.g., with `readHydroBase()` commands and time series identifiers that have `~HydroBase` input types). This command is not typically used for interactive sessions but may be inserted to run in batch only mode to allow a specific database and commands files to be distributed. It may also be used in cases where time series are read from different HydroBase databases, perhaps to compare the contents of the databases – in this case two `openHydroBase()` commands would be used. When connecting to a SQL Server database, a connection will be tried for MSDE and full SQL Server. If both fail, a warning will be shown.

The following dialog is used to edit this command and illustrates the command syntax. The **Database type** is used to control settings for parameters and is not itself a parameter.

openHydroBase

openHydroBase() Command Editor

The command syntax is as follows:

```
openHydroBase(param=value,…)
```

Command Parameters

Parameter	Description	Default
OdbcDsn	The ODBC DSN to use for the connection, used only when working with a Microsoft Access database.	Required if a Microsoft Access database is used.
DatabaseServer	Used with a SQL Server HydroBase. Specify the SQL Server database machine name. A list of choices will be shown, corresponding to properties in the *CDSS.cfg* file.	Required if a SQL Server database is used, and accepts the generic value DatabaseServer=local, which will automatically be translated to the name of the local computer.
DatabaseName	Used with a SQL Server HydroBase. The name of the database typically follows a pattern similar to: HydroBase_DIVn_YYYYMMDD or HydroBase_CO_East_YYYYMMDD. A list of choices will be shown, corresponding to properties in the *CDSS.cfg* file.	HydroBase
InputName	The input name corresponding to the ~InputType~InputName information in time series identifiers. This is used when more than one HydroBase connection is used in the same commands file.	Blank (no input name).
UseStoredProcedures	Used with SQL Server, indicating whether stored procedures are used. Stored procedures are being phased in and will be the only option at some point.	True (used stored procedures).
RunMode	Indicates when the command should be run, one of: BatchOnly – run the command only in batch mode. GUIOnly – run the command only in GUI mode. GUIAndBatch – run the command in batch and GUI mode.	GUIAndBatch

The following example commands file illustrates how to connect to a SQL Server database running on a machine named "hbserver":

```
openHydroBase(DatabaseServer="hbserver",DatabaseName="HydroBase_CO_20050501")
```

The following example commands file illustrates how to connect to a SQL Server database running on the local machine.

```
openHydroBase(DatabaseServer="local",DatabaseName="HydroBase_CO_20050501")
```

The following example commands file illustrates how to make two HydroBase database connections, in this case to test whether the stored procedure and SQL queries return the same results (the `InputName` parameter is used to tell TSTool which connection to use when reading data based on time series identifiers):

```
openHydroBase(DatabaseServer="hbserver",InputName="SP",
UseStoredProcedures="True",RunMode=GUIAndBatch)
openHydroBase(DatabaseServer="hbserver",RunMode=GUIAndBatch,
UseStoredProcedures=False,InputName="NoSP")
TS ts_sp =
readHydroBase(TSID="BOXHUDCO.DWR.Streamflow.Month~HydroBase~SP")
TS ts_nosp =
readHydroBase(TSID="BOXHUDCO.DWR.Streamflow.Month~HydroBase~NoSP")
```

The following example commands file illustrates how to connect to a Microsoft Access database:

```
openHydroBase(RunMode=GUIAndBatch,OdbcDsn="HydroBase_DIV1_20030701")
```

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