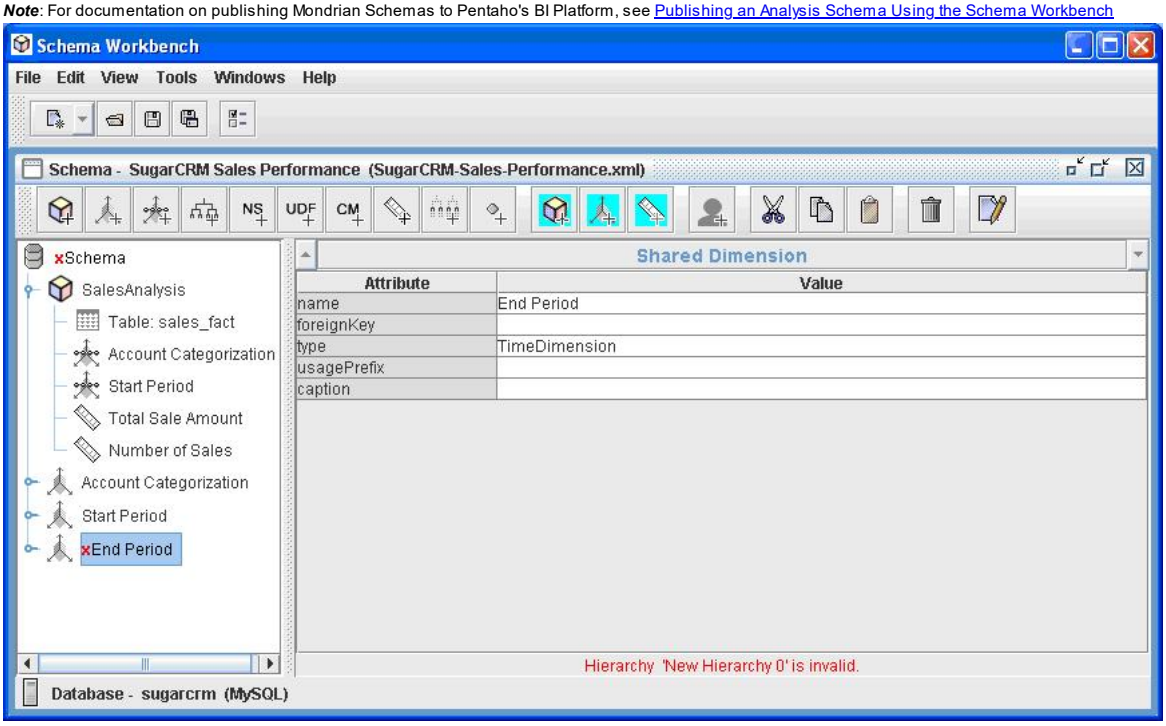
pentaho A Hitachi Group Company Mondrian Documentation

Mondrian Schema Workbench

The Mondrian Schema Workbench is a designer interface that allows you to create and test Mondrian OLAP cube schemas visually. The Mondrian engine processes M
(Relational OLAP) schemas. These schema files are XML metadata models that are created in a specific structure used by the Mondrian engine. These XML models c
which utilize existing FACT and DIMENSION tables found in your RDBMS. It does not require that an actual physical cube is built or maintained; only that the metadata r

Note: For documentation on publishing Mondrian Schemas to Pentaho's BI Platform, see Publishing an Analysis Schema Using the Schema Workbench



It provides the following functionality:

- Schema editor integrated with the underlying data source for validation. (See above)
- Test MDX queries against schema and database Screenshot
- Browse underlying databases structure Screenshot

A more detailed manual is Schema Workbench Manual

Using the Workbench

To build and create the workbench jar, at the command line, type:

```
ant workbench
```

Example output:

```
Buildfile: build.xml
Overriding previous definition of reference to jdk

version:

prepare:

parser:
 [javacup] Files are up to date.

generate.resources:
  [resgen] C:\MONDRIAN_SourceForge\open\mondrian\src\main\mondrian\resource\MondrianResource.java is up to date
  [resgen] C:\MONDRIAN_SourceForge\open\mondrian\classes\mondrian\resource\MondrianResource.properties is up to date
  [resgen] C:\MONDRIAN_SourceForge\open\mondrian\src\main\mondrian\resource\MondrianResource_en_US.java is up to date
  [resgen] C:\MONDRIAN_SourceForge\open\mondrian\classes\mondrian\resource\MondrianResource_en_US.properties is up to date
  [resgen] C:\MONDRIAN_SourceForge\open\mondrian\src\main\mondrian\resource\MondrianResource_de_DE.java is up to date
  [resgen] C:\MONDRIAN_SourceForge\open\mondrian\classes\mondrian\resource\MondrianResource_de_DE.properties is up to date
  [resgen] C:\MONDRIAN_SourceForge\open\mondrian\src\main\mondrian\resource\MondrianResource_de.java is up to date
  [resgen] C:\MONDRIAN_SourceForge\open\mondrian\classes\mondrian\resource\MondrianResource_de.properties is up to date
  [resgen] C:\MONDRIAN_SourceForge\open\mondrian\src\main\mondrian\resource\MondrianResource_es_ES.java is up to date
  [resgen] C:\MONDRIAN_SourceForge\open\mondrian\classes\mondrian\resource\MondrianResource_es_ES.properties is up to date

def:

compile.java:

compile:

info:
```

```
    [echo] ============================================================
    [echo] | Mondrian configuration info                              |
    [echo] ============================================================
    [echo] project.location     = C:\MONDRIAN_SourceForge\open\mondrian
    [echo] jdk.home             = C:\Program Files\Java\jdk1.5.0_05
    [echo] catalina.home        = C:\apache-tomcat-5.5.12
    [echo] junit.home           = C:\junit4.0
    [echo] mondrian.foodmart.catalogURL = file:C:\MONDRIAN_SourceForge\open\mondrian/demo/FoodMart.xml
    [echo] mondrian.foodmart.jdbcURL    = jdbc:odbc:MondrianFoodMart
    [echo] mondrian.jdbcDrivers         = sun.jdbc.odbc.JdbcOdbcDriver
    [echo] ============================================================

compile.tests:

jar:
     [jar] Building jar: C:\MONDRIAN_SourceForge\open\mondrian\lib\mondrian.jar

workbench:
     [jar] Building jar: C:\MONDRIAN_SourceForge\open\mondrian\lib\workbench.jar

BUILD SUCCESSFUL
Total time: 47 seconds
```

This will create `lib/workbench.jar`. Include drivers for your database on the classpath.

To start the workbench., at the command prompt, type

In Windows:

```
ant workbench-run
```

Or the following

```
java -jar lib/workbench.jar
```

In UNIX/Linux:

```
java -jar lib/workbench.jar
```

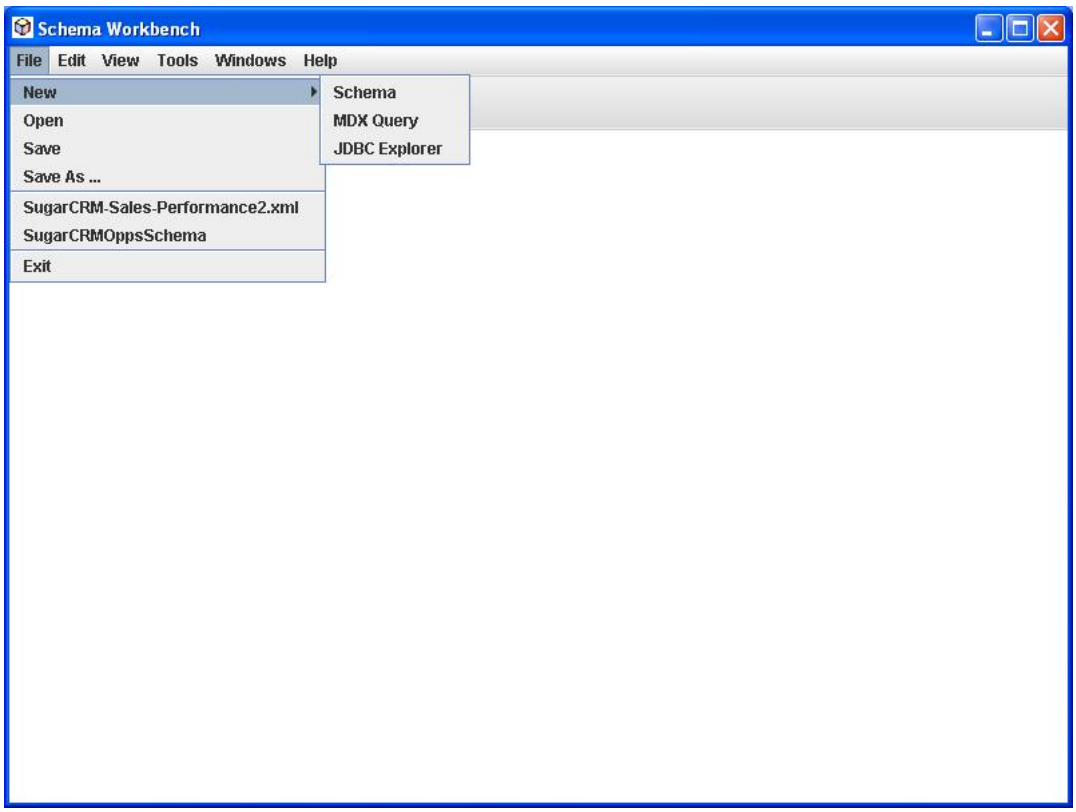
Set properties for connection to your cube database via `Tools > Preferences`.

These preferences and the last 4 schemas edited are kept in a "workbench.properties" file in the root of the classpath.

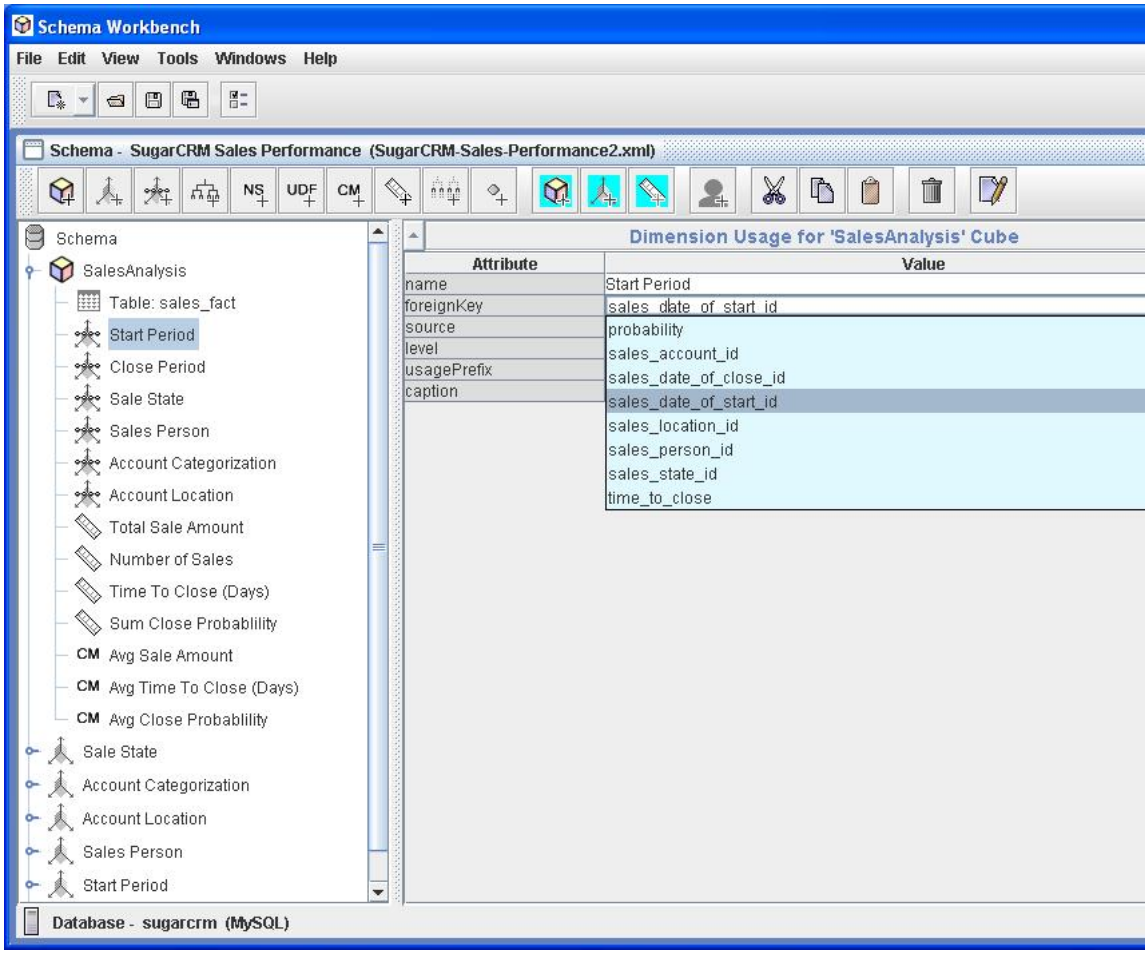
If you change the connection properties, you will need to close/save the existing schema editor(s) and restart to see the effects.

Create a new schema or open an existing one.

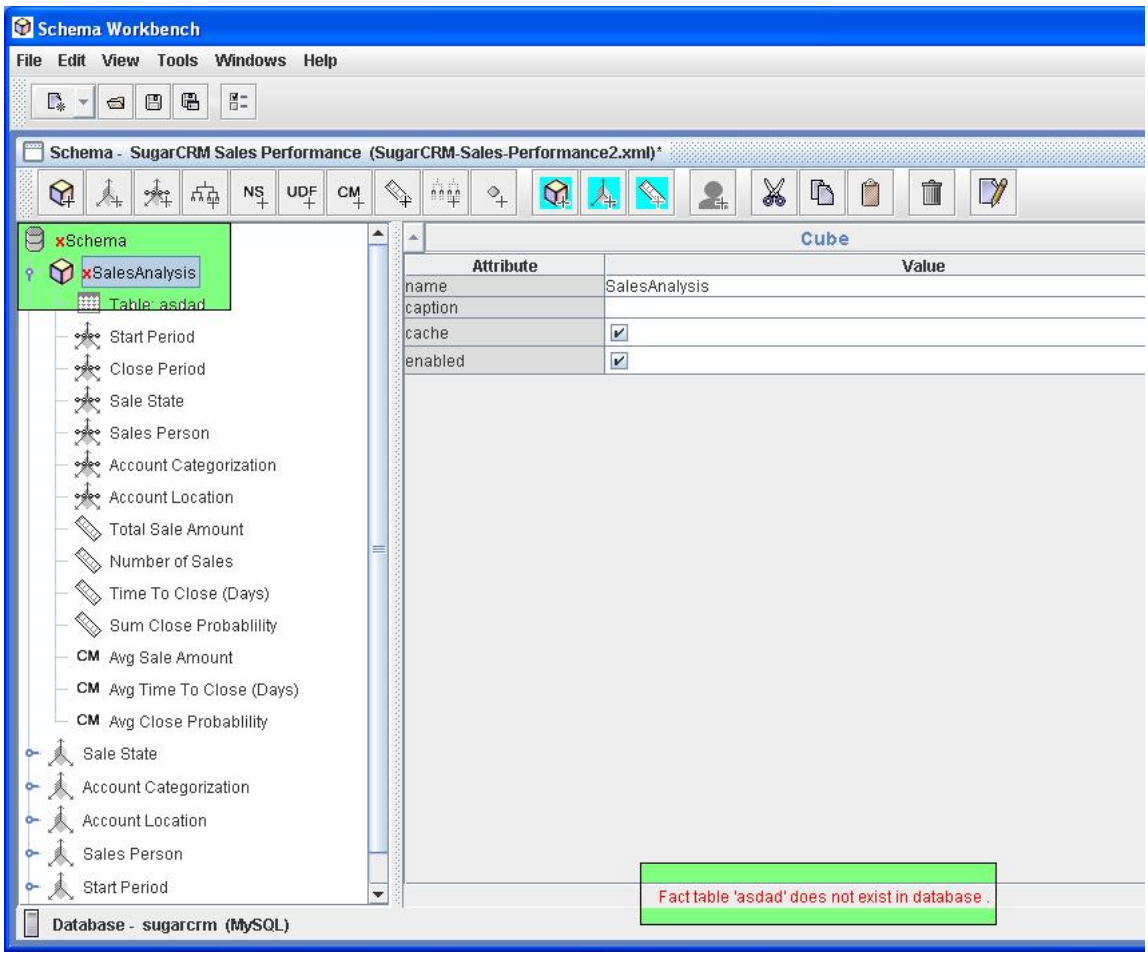
If you open an existing schema, the Workbench validates that the tables and columns underlying the cube definitions actually exist in the database.



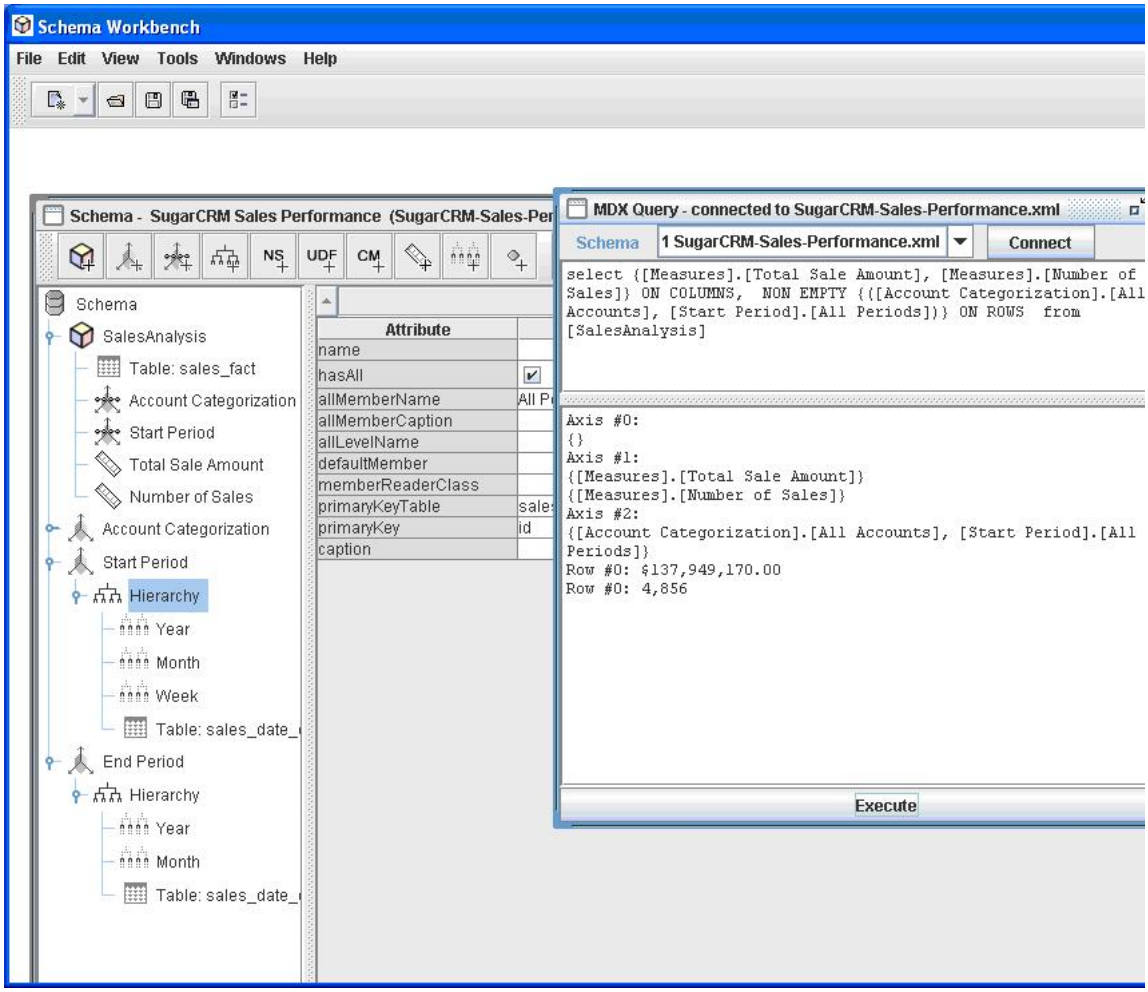
Create or edit elements in the schema. The Workbench validates your changes against the cube database tables and column names.



The Workbench validates edits against the Mondrian schema DTD.



Save your schema and run some MDX queries to test. Error messages and results are displayed.



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