# Table: Sources

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| **Schema:** | SystemSchematicBuilder |
| **Responsible:** | Kurt A Vedros |

Table holds the information on the source of the transported content.

I.E. where the content is coming from to the system, could be a river or electrical outlet.

Note: Flow is stored in Values Table. Which is connected by Sources to Transporters to Values.

Source – The beginning part that the system is pulling its contents from.

Note: Flow Rate and pressure is stored in the values table that is connected to the part.

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| **Column Name** | **Data type** | **Description** |
| SourceID | Int | Primary Key to Source Table |
| Name | String | Name given to the source by user (Cannot be left blank) |

**Procedures (Database functions)**

* sprocGetSources
  + Returns a list of Source objects that are currently stored in the database.
* sprocGetSource
  + Returns a Source object that is currently stored in the database that has the given Source ID number.
* sproc\_SourceAdd
  + Stores the given Source object into the database and returns its assigned Source ID number.
* sproc\_SourceUpdate
  + Changes information of the Sources Table in the database with the given primary key to the given Source class object.
* sproc\_SourceRemove
  + Removes the Source from the Sources Table with the given Source ID number.

**DAL (Software Functions)**

* SourcesGetAll()
  + Returns a list of Source objects that are currently stored in the database.
* SourceGet(int ID)
  + Returns a Source object that is currently stored in the database that has the given Source ID number.
* SourceAdd(Source Source)
  + Stores the given Source object into the database and returns its assigned Source ID number. Returns -1 if error occurred, otherwise returns null.
* SourceUpdate(Source Source)
  + Changes a Source object that is currently stored in the database with the given Source’s Source.ID with the Source’s information.
* SourceRemove(int ID)
  + Removes the Source object stored in the database with the given Source ID number. Returns -1 if error occurred, otherwise returns null.