# Table: GridToParts

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

Table holds all information on the connection between the Grids and Parts tables including the parts location in the grid.

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| **Column Name** | **Data type** | **Description** |
| GridToPartID | Int | Primary Key to GridToParts Table |
| GridID | Int | Foreign Key to Grids Table |
| PartID | Int | Foreign Key to Parts Table |
| XCoordinate | Int | The coordinate referenced by the grid. Often seen as the column identity. |
| YCoordinate | Int | The coordinate referenced by the grid. Often see as the row identity. |

**Procedures (Database functions)**

* sprocGetGridToParts
  + Returns a list of GridToPart objects that are currently stored in the database.
* sprocGetGridToPart
  + Returns a GridToPart object that is currently stored in the database that has the given GridToPart ID number.
* sproc\_GridToPartAdd
  + Stores the given GridToPart object into the database and returns its assigned GridToPart ID number.
* sproc\_GridToPartUpdate
  + Changes information of the GridToParts Table in the database with the given primary key to the given GridToPart class object.
* sproc\_GridToPartRemove
  + Removes the GridToPart from the GridToParts Table with the given GridToPart ID number.

**DAL (Software Functions)**

* GridToPartsGetAll()
  + Returns a list of GridToPart objects that are currently stored in the database.
* GridToPartGet(int ID)
  + Returns a GridToPart object that is currently stored in the database that has the given GridToPart ID number.
* GridToPartAdd(GridToPart GridToPart)
  + Stores the given GridToPart object into the database and returns its assigned GridToPart ID number. Returns -1 if error occurred, otherwise returns null.
* GridToPartUpdate(GridToPart GridToPart)
  + Changes a GridToPart object that is currently stored in the database with the given GridToPart’s GridToPart.ID with the GridToPart’s information.
* GridToPartRemove(int ID)
  + Removes the GridToPart object stored in the database with the given GridToPart ID number. Returns -1 if error occurred, otherwise returns null.