# Widgets

Widgets are displayed in the Dashboard section. ICR Users can decide to use a Widget. ICR Solutions distinguish three types of Widgets:

* Data table results. The column result order, number of rows to be displayed, table height and width are customizable by user.
* Information widget with color coding criticality such as success, danger, fail, warning.
* Chart results, data are displayed and consolidated accordingly to the decide result column.

## Dashboard & Widget

Every time users will connect to his dashboard; the associated widgets will be capturing the key data within the widget.

The widget height & width are customizable for each ICR users. The dashboard layout can be saved at any time.

An indicator is displayed, showing that the widget is still capturing the data. Once captured, the loading icon disappears, and the number of references is updated.

## Data Structure

The following structure contains all the widget information:

* Table **WIDGET** contains the Widget information
* Table **WIDGETRESULT** – For a table result widget allow to rename and order the columns,
* Table **TRA\_WIDGETS** contains the widget label
* Table **USER\_WIDGET** is the customized user table. If user decides to resize the widget, the original remains in WIDGET table and the user widget size will be within the USER\_WIDGET table

## Live data vs. prepared data

By default, widget are set to capture live data by performing query against database. Some data due to volume & performance can be prepared and generated in a **JSON** file.

To enable the prepared data feature, the widget need to be configured with the defined **SNAP FILE** which will be the location of the JSON file.

### Example prepared data:

Every day, using the ICR scheduler, a daily prepared file is running (\*.sh). The HTML request must contains the following information:

* HEADER:
  + DSH\_ID is the Widget id
  + QUERY\_ID is the query id to be executed
  + DATABASE\_SID
  + LANGUAGE
  + USER
* URL: http://localhost:8092/api/request/1/? MODE=1
* PARAMETER:
  + MODE
    - If MODE is set to 1, the file will be every time regenerated
    - If MODE is set to 0, the ICR solutions will capture the generated file

All the prepared data are generated in “./repository/downloads/dashboard folder”. The filename respects the following codification:

* **DSH\_ID**\_**DATABASE\_SID**.json

UNIX sh script example for Widget query id INV0000001:

* curl -v -H ": " -H "cache-control: no-cache" -H "Connection: keep-alive" -H "Content-Type: application/x-www-form-urlencoded" -H "DATABASE\_SID: HEINENS\_CUSTOM\_PROD" -H "LANGUAGE: HN" -H "USER: abe" -H "DSH\_ID: INV0000001" -H "QUERY\_ID: INV0000001" "http://localhost:8092/api/request/1/?MODE=1" -L

## Static data & Materialized Views

Most of reporting are based on history or already computed data. ICR Solution approach in order to quickly display the information is using **Materialized View**. For example:

* **MV\_MERCHSTR** contains the merchandise hierarchy with all the levels, internal and external code and description.
* **MV\_ORDERABLE** contains all the defined orderable assortment
* **MV\_SALES** the last X weeks sales history