5.8 Result Set API

The result set-related data source script APs allow you, as an analytic application developer, to get a result set based on an input data selection in a table or a chart, so that you can traverse it and get each data cell in the result set.

Before this script API has had been introduced, you could retrieve individual data cells using `DataSource.getData()`. However, it wasn't possible to retrieve all members for a dimension in a specific result set.

The result set-related script API mentioned above includes:

- The new script API methods `getResultSet()` and `getDataSelections()` – exposed on the data source of a Chart or Table widget to fetch all data cells and iterate over its result.
- The new script API method `getResultMember()` – exposed on the data source of a Chart or Table widget to fetch member specific information.

Note: To reference in a selection the NULL member, use the alias `Alias.NullMember`.

Note: To reference in a selection the totals member, use the alias `Alias.TotalsMember`.

5.8.1 Using the getResultSet API

The `getResultSet()` script API method is exposed on the data source of both the Chart and Table widget. In this section, we will take charts and tables as example and show you how to fetch data cells from such widgets. Users can specify input parameters to filter the result. If there is no input parameter passed to this script API method, all data cells are returned. When a table has newly added cells at runtime, these cells are also returned by this script API method.

To help you understand using this script API method, we list several examples. As ID of dimension and measure is used in input parameter and returned by the result set, we choose to display both ID and description for tables and charts in these examples.

Function Summary:

```
// Returns the result set according to the selected data or context of
// the data you select. Offset / limit should be not less than zero. If
// offset / limit are invalid or not set, all data is returned.
// If the selection doesn't specify any MeasureDimension, all measures
// are returned.
Chart_1.getDataSource().getResultSet(selection?: Selection | Selection[] |
SelectionContext, offset?: integer, limit?: integer): ResultSet[]
Table_1.getDataSource().getResultSet(selection?: Selection | Selection[] |
SelectionContext, offset?: integer, limit?: integer): ResultSet[]

ResultSet {
  [key: string]: DataContext;
}

Selection {
  [key: string]: string;
}

SelectionContext {
```