# Best Practice Guide – SAP Netweaver Gateway

* Always use the OData System Query Options $filter, $top, $skip, $orderby, $batch, $metadata as required.
* Provide significant set of filterable properties to fetch accurate set of data queried.
* Always use $select to specify the fields returned in the result set.
* Always use $count to fetch only the count of a collection of entities.
* Always use $inlinecount to fetch the count of a collection of entities together with the queried entities.
* Assign right data type to the fields in the property of Entity type
* Always use $expand/deep insert for associated entity types when fetch or create deep data is needed
* Always use $batch to send the data of several requests in a single HTTP request from the client to the SAP NetWeaver Gateway server for entity types that are not associated
* Represent quantity and prices using data type Edm.decimal
* Redefine a method that is required to be furnished with custom logic. Do not implement any method in the super class (DPC or MPC), as during generation of service every time the codes in the methods(not redefined) gets refreshed.
* Use a referential constraint as key for implementing association between Entities.
* Use navigation property to display one entity set data based on other entity set data as input. Ex. based on sales order number from sales order header entityset, we can display the relevant sales order item data.
* HTTP method name (such asGET) shouldn’t be used as prefix, suffix or infix. Use names that reflect the navigation end points as well as the cardinality.
* Large binaries shouldn’t be used in an OData stream. Use media resources and media link entries as binary data in common formats (for example, PDF, GIF, JPEG) is naturally represented in OData as a media resource with a corresponding media link entry
* Use services as per REST protocol and methodology.
* Use exception class/IWBEP/CX\_MGW\_BUSI\_EXCEPTION for errors related to business logic.
* Do catch exceptions from business logic and, if needed, use your own error messages.
* A GET method must have a return type. POST method should have parameters.