SAP
Australian
User
Group

call_all_getters

```abap
    TRY.
* If model and entity name are available we can determine the entity properties from the model ...
        LOOP AT model->get_entity_properties( entity_name ) REFERENCE INTO DATA(model_property).
          APPEND model_property->name TO properties.
        ENDLOOP.
      CATCH cx_root.
* ... otherwise we use rtts to determine entity properties from entity itself.
        TRY.
            struct_descr ?= cl_abap_structdescr->describe_by_data_ref( entity ).
            LOOP AT struct_descr->components REFERENCE INTO DATA(component).
              APPEND component->name TO properties.
            ENDLOOP.
          CATCH cx_root.
        ENDTRY.
    ENDTRY.
```

```abap
ASSIGN entity->* TO FIELD-SYMBOL(<entity>).
CHECK sy-subrc = 0.

LOOP AT properties REFERENCE INTO DATA(property).
  CLEAR parameters.
  TRY.
      ASSIGN COMPONENT property->* OF STRUCTURE <entity> TO FIELD-SYMBOL(<comp>).
      IF sy-subrc = 0.
        parameter-name = property->*.
        parameter-kind = cl_abap_objectdescr->returning.
        GET REFERENCE OF <comp> INTO parameter-value.
        INSERT parameter INTO TABLE parameters.
        DATA(method_name) = |GET_{ property->* }|.
        CALL METHOD me->(method_name)
          PARAMETER TABLE parameters.
      ENDIF.
    CATCH cx_sy_dyn_call_error.
  ENDTRY.
ENDLOOP.
```

For each entity component we attempt
to call matching getter functional method

e.g `<entity>-prop1 = me->get_prop1( ).`

# call_all_getters

```
    TRY.
* If model and entity name are available we can determine the entity properties from the model ...
        LOOP AT model->get entity properties( entity name ) REFERENCE INTO DATA(model property).
            APPEND model_pr  ASSIGN entity->* TO FIELD-SYMBOL(<entity>).
        ENDLOOP.             CHECK sy-subrc = 0.
    CATCH cx_root.
* ... otherwise we use rt   LOOP AT properties REFERENCE INTO DATA(property).
        TRY.                   CLEAR parameters.
                               TRY.
             struct_descr          ASSIGN COMPONENT property->* OF STRUCTURE <entity> TO FIELD-SYMBOL(<comp>).
             LOOP AT struct        IF sy-subrc = 0.
                APPEND comp           parameter-name = property->*.
             ENDLOOP.                 parameter-kind = cl_abap_objectdescr->returning.
           CATCH cx_root.             GET REFERENCE OF <comp> INTO parameter-value.
        ENDTRY.                       INSERT parameter INTO TABLE parameters.
    ENDTRY.                           DATA(method_name) = |GET_{ property->* }|.
                                      CALL METHOD me->(method_name)
                                        PARAMETER-TABLE parameters.
                                    ENDIF.
                                 CATCH cx_sy_dyn_call_error.
                               ENDTRY.
                             ENDLOOP.
```

For each entity component we attempt
to call matching getter functional method

e.g `<entity>-prop1 = me->get_prop1( ).`

Just like GET_ENTITY in a loop…except…