



QUERY AdoScript

3. EXTERNAL COUPLING ADOXX FUNCTIONALITY

ADOscript for Queries



```
EvalAqlExpression : EVAL_AQL_EXPRESSION expr:strValue ( modelid:intValue | modelscope ) .  
--> RESULT ecode:intValue objids:strValue
```

EVAL_AQL_EXPRESSION will evaluate the AQL string specified by the argument **expr**.

The return variable **ecode** is 0 if the evaluation yielded no error.

The list of found objects or models is returned in the variable **objids** (separated by blanks).



ADOscript for Queries (Examples)

Example 1: Get all objects of class „A" in a certain model

```
CC "AQL" EVAL_AQL_EXPRESSION expr:"<\ "A\">" modelid:(modelid)
```

```
IF (ecode = 0)
{
    CC "AdoScript" INFOBOX ("Found objects: " + objids)
}
ELSE
{
    CC "AdoScript" INFOBOX "An error has occurred!"
}
}
```

Example 2: Get all models of modeltype "Working Environment Model"

```
CC "AQL" EVAL_AQL_EXPRESSION expr:"<\ „Sample\">" modelscope
```

```
IF (ecode = 0)
{
    CC "AdoScript" INFOBOX ("Found models: " + objids)
}
ELSE
{
    CC "AdoScript" INFOBOX "An error has occurred!"
}
}
```



ADOscript for Queries (Examples)

```
CC "Modeling" GET_ACT_MODEL
# make first query with all objects inside V1
CC "AQL" EVAL_AQL_EXPRESSION expr:"({\"V1\": \"V\"}<-
\"Is inside\") OR ({\"V1\": \"V\"}->\"Is inside\")"
modelid:(modelid)
SETL st1:(objids)
# make second query with all A in model
CC "AQL" EVAL_AQL_EXPRESSION expr:"(<\"A\">)"
modelid:(modelid)
SETL st2:(objids)
# union of the two AQL result sets
SETL st_allobjectids:(tokunion(st1,st2))
IF (ecode = 0)
{
    CC "AdoScript" INFOBOX ("Found objects: " +
st_allobjectids)
}
ELSE
{
    CC "AdoScript" INFOBOX "An error has occured!"
}
}
```

ADOscript for Queries (Examples)



Following Interref a5 of object A1

```
CC "Modeling" GET_ACT_MODEL

CC "AQL" debug EVAL_AQL_EXPRESSION expr:"({\"A1\"} -->
\"a5\")" modelid:(modelid)

SETL st1:(objids)

IF (ecode = 0)
{
    CC "AdoScript" INFOBOX ("Found objects: " + st1)
}
ELSE
{
    CC "AdoScript" INFOBOX "An error has occurred!"
}
}
```