

ibec_PrepStatement

Prepares a DML statement and returns preparation report or raises an error.

Syntax

```
ibec_PrepStatement(Connection : variant; Statement : string; Options : string; RaiseError : boolean) : string;
```

Connection	Active connection object.
Statement	Source of DML statement.
Options	Options string. Possible options are:
Plan	Include statement plan, if available, into the result report
ExplainPlan	Include statement explain plan, if available, into the result report. For Firebird 3 and above.
Columns	Include information about statement columns: datatype, size, precision etc.
RaiseError	If RaiseError=TRUE and preparation causes an error, an exception will be generated.
If RaiseError=FALSE and preparation causes an error its message, SQL code and IB error code will be included into the result report.	If RaiseError=FALSE and preparation causes an error its message, SQL code and IB error code will be included into the result report.

Example 1

Preparation of invalid statement without raising of error:

```
execute ibeblock
as
begin
  db =  ibec_GetDefaultConnection();

  var_sql = 'selects * from rdb$relations';
  var_res = ibec_PrepStatement(db, var_sql, '', FALSE);
end
```

Output (JSON):

```
{
  "Statement": "selects * from rdb$relations\r\n",
  "Error": {
    "SQLCode": -104,
    "IBErrorCode": 335544569,
    "Message": "can't format message 13:896 -- message system code
-4.\r\nDynamic
```

```
SQL Error.\r\nSQL error code = -104.\r\nToken unknown -  
line 1,  
        column 1.\r\nselects.\r\n"  
    }  
}
```

Example 2

Preparation of invalid statement with raising of error:

```
execute ibeblock  
as  
begin  
    db = ibec_GetDefaultConnection();  
  
    var_sql = 'selects * from rdb$relations';  
    try  
        var_res = ibec_PrepareStatement(db, var_sql, '', TRUE);  
    except  
        sMessage = ibec_err_Message();  
        ibec_ShowMessage(sMessage);  
    end  
end
```

Example 3

Preparation of valid statement:

```
execute ibeblock  
as  
begin  
    db = ibec_GetDefaultConnection();  
  
    var_sql = 'select rdb$relation_name, rdb$relation_id, rdb$description  
from rdb$relations';  
    var_res = ibec_PrepareStatement(db, var_sql, 'Plan; ExplainPlan;  
Columns', FALSE);  
    ibec_SaveToFile('D:\temp\prepare.json', var_res, __stf0verwrite);  
end
```

Output (JSON):

```
{  
    "Statement": "select rdb$relation_name, rdb$relation_id, rdb$description  
from rdb$relations\r\n",  
    "SQLType": "1 (Select)",  
    "Plan": "PLAN (RDB$RELATIONS NATURAL)",
```

```
"ExplainPlan": "Select Expression\n      -> Table \"RDB$RELATIONS\" Full\nScan",\n  "Columns": [\n    {\n      "XSQLVAR.Name": "RDB$RELATION_NAME",\n      "XSQLVAR.AliasName": "RDB$RELATION_NAME",\n      "XSQLVAR.RelationName": "RDB$RELATIONS",\n      "XSQLVAR.Type": 453,\n      "XSQLVAR.SubType": 4,\n      "XSQLVAR.Scale": 0,\n      "XSQLVAR.Length": 124,\n      "Type": "CHAR(31)"\n    },\n    {\n      "XSQLVAR.Name": "RDB$RELATION_ID",\n      "XSQLVAR.AliasName": "RDB$RELATION_ID",\n      "XSQLVAR.RelationName": "RDB$RELATIONS",\n      "XSQLVAR.Type": 501,\n      "XSQLVAR.SubType": 0,\n      "XSQLVAR.Scale": 0,\n      "XSQLVAR.Length": 2,\n      "Type": "SMALLINT"\n    },\n    {\n      "XSQLVAR.Name": "RDB$DESCRIPTION",\n      "XSQLVAR.AliasName": "RDB$DESCRIPTION",\n      "XSQLVAR.RelationName": "RDB$RELATIONS",\n      "XSQLVAR.Type": 521,\n      "XSQLVAR.SubType": 1,\n      "XSQLVAR.Scale": 4,\n      "XSQLVAR.Length": 8,\n      "Type": "BLOB SUB_TYPE 1"\n    }\n  ]\n}
```

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