ibec_PrepareStatement

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

Syntax

```
 ibec_PrepareStatement(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 colums: 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_PrepareStatement(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, __stfOverwrite);
 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$RELATIONS\" Full
Scan",
   "Columns": [
     {
       "XSQLVAR.Name": "RDB$RELATION_NAME",
       "XSQLVAR.AliasName": "RDB$RELATION_NAME",
       "XSQLVAR.RelationName": "RDB$RELATIONS",
       "XSQLVAR.Type": 453,
       "XSQLVAR.SubType": 4,
       "XSQLVAR.Scale": 0,
       "XSQLVAR.Length": 124,
       "Type": "CHAR(31)"
     },
     {
       "XSQLVAR.Name": "RDB$RELATION_ID",
       "XSQLVAR.AliasName": "RDB$RELATION_ID",
       "XSQLVAR.RelationName": "RDB$RELATIONS",
       "XSQLVAR.Type": 501,
       "XSQLVAR.SubType": 0,
       "XSQLVAR.Scale": 0,
       "XSQLVAR.Length": 2,
       "Type": "SMALLINT"
     },
     {
       "XSQLVAR.Name": "RDB$DESCRIPTION",
       "XSQLVAR.AliasName": "RDB$DESCRIPTION",
       "XSQLVAR.RelationName": "RDB$RELATIONS",
       "XSQLVAR.Type": 521,
       "XSQLVAR.SubType": 1,
       "XSQLVAR.Scale": 4,
       "XSQLVAR.Length": 8,
       "Type": "BLOB SUB_TYPE 1"
     }
   ]
 }
```


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