

SPExtract.ibeblock

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execute ibeblock ExtractProcedures (
  CodeDir varchar(1000) = 'E:\IBEBlocks\' comment 'Path to necessary
  IBEBlocks',
  CreateAlter varchar(6) = 'CREATE',
  Dialect smallint = 3,
  EmptyBody Boolean = FALSE,
  FileStrm variant)
as
begin
  CRLF = ibec_CRLF;
  WriteDDLBlock =
    'execute ibeblock (sName variant, sDDL variant, sInParams variant,
sOutParams variant, sSrc variant, FS variant)
  as
    CRLF = ibec_CRLF();
    if (sInParams <> '') then
      sDDL = sDDL || ' (' || CRLF || ' ' || ibec_Trim(sInParams) ||
''''';
    if (sOutParams <> '') then
      sDDL = sDDL || CRLF || ''RETURNS (' || CRLF || ' ' ||
ibec_Trim(sOutParams) || ''''';
    sDDL = sDDL || CRLF || ''AS'' || CRLF;
    sDDL = sDDL || sSrc || ''^'';
    ibec_progress('Writing procedure ' || sName);
    ibec_fs_WriteLn(FS, sDDL); ibec_fs_WriteLn(FS, '');
ibec_fs_WriteLn(FS, '');
  end';

  RdbPrecisionExists = TRUE;
  FldTypeFunc = ibec_LoadFromFile(CodeDir || 'FldType.ibeblock');

  sName = ''; sDDL = ''; sInParams = ''; sOutParams = ''; sParam = ''; iPrec
= 0;
  if (FileStrm is not null) then
    FS = FileStrm;
  else
    FS = ibec_fs_OpenFile('E:\BlockScript.sql', __fmCreate);

  Stmt = ibec_Concat(
'select pr.rdb$procedure_name,      ', CRLF, -- 0
'      pp.rdb$parameter_name,      ', CRLF, -- 1
'      pp.rdb$parameter_type,      ', CRLF, -- 2
'      fs.rdb$field_name,          ', CRLF, -- 3
'      fs.rdb$field_type,          ', CRLF, -- 4
'      fs.rdb$field_length,        ', CRLF, -- 5
'      fs.rdb$field_scale,         ', CRLF, -- 6
'      fs.rdb$field_sub_type,      ', CRLF, -- 7

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'      fs.rdb$segment_length,      ', CRLF, -- 8
'      fs.rdb$dimensions,          ', CRLF, -- 9
'      cr.rdb$character_set_name,  ', CRLF, -- 10
'      co.rdb$collation_name,      ', CRLF, -- 11
'      pp.rdb$parameter_number,    ', CRLF, -- 12
'      fs.rdb$character_length,    ', CRLF, -- 13
'      fs.rdb$default_source       ', CRLF); -- 14

if (not EmptyBody) then
  Stmt = ibec_Trim(Stmt) || ',' || CRLF || ' pr.rdb$procedure_source' ||
CRLF;
else
  sSrc = 'BEGIN' || CRLF || ' EXIT;' || CRLF || 'END';
if (RdbPrecisionExists) then
  Stmt = ibec_Trim(Stmt) || ',' || CRLF ||
      '      fs.rdb$field_precision' || CRLF;
  Stmt = Stmt ||
'from rdb$procedures pr'          || CRLF ||
'left join rdb$procedure_parameters pp on pp.rdb$procedure_name =
pr.rdb$procedure_name' || CRLF ||
'left join rdb$fields fs on fs.rdb$field_name = pp.rdb$field_source'
|| CRLF ||
'left join rdb$character_sets cr on fs.rdb$character_set_id =
cr.rdb$character_set_id' || CRLF ||
'left join rdb$collations co on ((fs.rdb$collation_id =
co.rdb$collation_id) and'      || CRLF ||
'      (fs.rdb$character_set_id =
co.rdb$character_set_id))' || CRLF ||
'order by pr.rdb$procedure_name, pp.rdb$parameter_type,
pp.rdb$parameter_number';

SetTermWritten = FALSE;

for execute statement :Stmt into :SPProps
do
begin
  if (SetTermWritten = FALSE) then
  begin
    ibec_fs_WriteLn(FS, 'SET TERM ^ ;' || CRLF);
    SetTermWritten = TRUE;
  end;
  if (RdbPrecisionExists = TRUE) then
    iPrec = ibec_IIF(EmptyBody = 1, SPProps[15], SPProps[16]);

  SPName = ibec_Trim(SPProps[0]);
  if (sName <> SPName) then
  begin
    if (sDDL <> '') then
      execute ibeblock WriteDDLBlock(sName, sDDL, sInParams,
sOutParams, sSrc, FS);
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    sName = SPName;
    if (not EmptyBody) then
        sSrc = ibec_Trim(SPProps[15]);
        sDDL = CreateAlter || ' PROCEDURE ' || SPName;
        sInParams = ''; sOutParams = ''; sParam = '';
    end
    if (SPProps[1] is not null) then
        begin
            execute ibeblock FldTypeFunc(SPProps[4], SPProps[7], SPProps[5],
SPProps[6], SPProps[8],
                                SPProps[13], SPProps[16], Dialect)
                returning_values :sParam;
            sParam = ibec_Trim(SPProps[1]) || ' ' || sParam;
            -- Character Set
            if ((SPProps[4] in (14, 37, 261)) and (SPProps[10] is not null))
then
                sParam = sParam || ' CHARACTER SET ' || ibec_trim(SPProps[10]);
            -- Default Value
            if ((SPProps[14] is not null) and (SPProps[14] <> '')) then
                sParam = sParam || ' DEFAULT ' || ibec_trim(SPProps[14]);
            if (SPProps[2] = 0) then
                begin
                    if (sInParams <> '') then
                        sInParams = sInParams || ',' || CRLF || ' ';
                        sInParams = sInParams || sParam;
                    end
                else if (SPProps[2] = 1) then
                    begin
                        if (sOutParams <> '') then
                            sOutParams = sOutParams || ',' || CRLF || ' ';
                            sOutParams = sOutParams || sParam;
                        end
                    end
                end
            end
            if (sDDL <> '') then
                execute ibeblock WriteDDLBlock(sName, sDDL, sInParams, sOutParams,
sSrc, FS);

                if (SetTermWritten) then
                    ibec_fs_Writeln(FS, 'SET TERM ; ^' || CRLF);

                if (FileStrm is null) then
                    ibec_fs_CloseFile(FS);
            end

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