

# Copy Table Example

```
execute ibeblock (
-- Don't change names of following parameters! -----
-----
SrcDBConnStr variant comment 'Source DB connection string',
SrcDBUserName variant = 'SYSDBA' comment 'Source DB user name',
SrcDBPassword variant = 'masterkey' comment 'Source DB password',
SrcDBCharset variant = 'NONE' comment 'Source DB connection charset',
SrcDBClientLib variant = 'gds32.dll' comment 'Source DB client library
name',
DestDBConnStr variant comment 'Destination DB connection string',
DestDBUserName variant = 'SYSDBA' comment 'Destination DB user name',
DestDBPassword variant = 'masterkey' comment 'Destination DB password',
DestDBCharset variant = 'NONE' comment 'Destination DB connection
charset',
DestDBClientLib variant = 'gds32.dll' comment 'Destination DB client
library name',
SrcObjectName variant = '' comment 'Table name to be copied',
DestObjectName variant = '' comment 'Destination table name, leave empty
if no changes need',
DebugMode boolean = TRUE,
-----
-----
CopyDomains boolean = TRUE comment 'Copy domains',
CopyTriggers boolean = TRUE comment 'Copy table triggers',
CopyPrimaryKey boolean = TRUE comment 'Copy primary key',
-- CopyForeignKeys boolean = FALSE comment 'Copy foreign keys',
CopyGenerators boolean = TRUE comment 'Copy generators used within table
triggers',
CopyData boolean = TRUE comment 'Copy table data',
CopyIndices boolean = TRUE comment 'Copy table indices',
DropTableIfExists boolean = FALSE comment 'Try to drop table if the one
exists in the destination database')
as
begin
Time1 = ibec_GetTickCount();

CRLF = ibec_CRLF();
BS = ibec_Chr(8);
Success = BS + ' Successfull.';
Failed = BS + ' FAILED!';

if (DebugMode) then
begin
SrcDBConnStr = 'LOCALHOST/3060:D:\FB2_DATA\IBEHELP.FBA';
SrcDBCharset = 'WIN1251';
SrcDBClientLib = 'C:\Program Files\Firebird\bin\fbclient.dll';
```

```
--DestDBConnStr = 'AVX-MAIN:D:\FB2_DATA\FORMTEST.FDB';
DestDBConnStr = 'LOCALHOST/3060:D:\FB2_DATA\IBEHELP.FBA';
DestDBCharset = 'WIN1251';
DestDBClientLib = 'C:\Program Files\Firebird\bin\fbclient.dll';

SrcObjectName = 'HELP_ITEMS';
DestObjectName = 'HELP_ITEMS33';
DropTableIfExists = TRUE;
end;

SrcTableName = SrcObjectName;
DestTableName = DestObjectName;

SrcDBParams = 'DBName=' + SrcDBConnStr + ';' +
              'User=' + SrcDBUserName + ';' +
              'Password=' + SrcDBPassword + ';' +
              'Names=' + SrcDBCharset + ';' +
              'ClientLib=' + SrcDBClientLib;

DestDBParams = 'DBName=' + DestDBConnStr + ';' +
              'User=' + DestDBUserName + ';' +
              'Password=' + DestDBPassword + ';' +
              'Names=' + DestDBCharset + ';' +
              'ClientLib=' + DestDBClientLib;

try
  try
    ibec_Progress('Connecting to ' + SrcDBConnStr + '...');
    SrcDB = ibec_CreateConnection(__ctFirebird, SrcDBParams);
    ibec_Progress(Success);
    SrcDBSQLDialect = ibec_GetConnectionProp(SrcDB, 'DBSQLDialect');
  except
    ibec_Progress(Failed);
    raise;
    Exit;
  end;

try
  ibec_Progress('Connecting to ' + DestDBConnStr + '...');
  DestDB = ibec_CreateConnection(__ctFirebird, DestDBParams);
  ibec_Progress(Success);
  DestDBSQLDialect = ibec_GetConnectionProp(DestDB, 'DBSQLDialect');
except
  ibec_Progress(Failed);
  raise;
  Exit;
end;

ibec_UseConnection(SrcDB);
```

```
select rdb$relation_name, rdb$system_flag, rdb$external_file,
rdb$description
      from rdb$relations
      where (rdb$relation_name = :SrcTableName) and (rdb$view_blr is
null)
      into :SrcTableData;

if (SrcTableData['RDB$RELATION_NAME'] is null) then
  exception cant_find_table 'There is no such table (' + :SrcTableName +
') in the source database.';
IsSys = SrcTableData['RDB$SYSTEM_FLAG'] = 1;
if (IsSys) then
  exception cant_copy_system_table 'Cannot copy a system table.';

if ((DestTableName is null) or (DestTableName = '')) then
  DestTableName = SrcTableName;

DestTableNameFmt = ibec_IIF(DestDBSQLDialect = 3,
ibec_QuotedStr(:DestTableName, ''), ibec_AnsiUpperCase(:DestTableName));
SrcTableNameFmt = ibec_IIF(SrcDBSQLDialect = 3,
ibec_QuotedStr(:SrcTableName, ''), ibec_AnsiUpperCase(:SrcTableName));

ibec_UseConnection(DestDB);

if (exists(select rdb$relation_name from rdb$relations where
rdb$relation_name = :DestTableName)) then
begin
  if (DropTableIfExists) then
  begin
    DropStmt = 'DROP TABLE ' + DestTableNameFmt;

    try
      ibec_Progress('Dropping table ' + DestTableNameFmt + '...');
      execute statement :DropStmt;
      commit;
      ibec_Progress(Success);
    except
      ibec_Progress(Failed);
      rollback;
      raise;
    end;
  end
else
  exception table_exists_already 'Table "' + DestTableName + '" exists
in the destination database already.';
end

ibec_UseConnection(SrcDB);

select rdb$field_name
```

```
from rdb$relation_fields
where (rdb$relation_name = 'RDB$FIELDS') and
      (rdb$field_name = 'RDB$FIELD_PRECISION')
into :bPrecision;
bPrecision = ibec_IIF(:bPrecision is NULL, FALSE, TRUE);

SelStmt = 'select rf.rdb$field_name as fld_name,' +
          'rf.rdb$field_source as fld_domain,' +
          'rf.rdb$null_flag as fld_null_flag,' +
          'rf.rdb$default_source as fld_default,' +
          'rf.rdb$description as fld_description,' +
          'f.rdb$field_type as dom_type,' +
          'f.rdb$field_length as dom_length,' +
          'f.rdb$field_sub_type as dom_subtype,' +
          'f.rdb$field_scale as dom_scale,' +
          'f.rdb$null_flag as dom_null_flag,' +
          'f.rdb$character_length as dom_charlen,' +
          'f.rdb$segment_length as dom_seglen,' +
          'f.rdb$system_flag as dom_system_flag,' +
          'f.rdb$computed_source as dom_computedby,' +
          'f.rdb$default_source as dom_default,' +
          'f.rdb$dimensions as dom_dims,' +
          'f.rdb$description as dom_description,' +
          'ch.rdb$character_set_name as dom_charset,' +
          'ch.rdb$bytes_per_character as charset_bytes,' +
          'dco.rdb$collation_name as dom_collation,' +
          'fco.rdb$collation_name as fld_collation';

if (bPrecision) then
  SelStmt = SelStmt + ', f.rdb$field_precision as dom_precision';

SelStmt = SelStmt + CRLF +
          'from rdb$relation_fields rf ' + CRLF +
          'left join rdb$fields f on rf.rdb$field_source =
f.rdb$field_name' + CRLF +
          'left join rdb$character_sets ch on f.rdb$character_set_id =
ch.rdb$character_set_id' + CRLF +
          'left join rdb$collations dco on ((f.rdb$collation_id =
dco.rdb$collation_id) and (f.rdb$character_set_id =
dco.rdb$character_set_id))' + CRLF +
          'left join rdb$collations fco on ((rf.rdb$collation_id =
fco.rdb$collation_id) and (f.rdb$character_set_id =
fco.rdb$character_set_id))' + CRLF +
          'where rf.rdb$relation_name = ' + ibec_QuotedStr(:SrcTableName,
''') + CRLF +
          'order by rf.rdb$field_position';

ibec_Progress('Collecting fields info...');
i = 0;
iUserDomainCount = 0;
for execute statement SelStmt into :FldData
```

```
do
begin
  s = ibec_Trim(FldData['FLD_DOMAIN']);
  aDomains[i] = ibec_IIF(ibec_Copy(s, 1, 4) = 'RDB$', null, s);
  if (aDomains[i] is not null) then
    iUserDomainCount = iUserDomainCount + 1;

  aFields[i] = ibec_Trim(FldData['FLD_NAME']);

  sType = ibec_IBTypeToStr(FldData['DOM_TYPE'],
                          FldData['DOM_SUBTYPE'],
                          FldData['DOM_LENGTH'],
                          FldData['DOM_SCALE'],
                          FldData['DOM_SEGLen'],
                          FldData['DOM_CHARLEN'],
                          FldData['DOM_PRECISION'],
                          DestDBSQLDialect);

  aTypes[i] = sType;

  aFieldsNotNull[i] = ibec_IIF(FldData['FLD_NULL_FLAG'] = 1, ' NOT NULL',
  '');
  aFieldsDefault[i] = ibec_IIF(FldData['FLD_DEFAULT'] is null, '', ' ' +
  ibec_Trim(FldData['FLD_DEFAULT']));
  aFieldsComment[i] = FldData['FLD_DESCRIPTION'];
  aFieldsCharset[i] = ibec_IIF(FldData['DOM_CHARSET'] is null, '',
  ibec_Trim(FldData['DOM_CHARSET']));
  aFieldsCollate[i] = ibec_IIF(FldData['FLD_COLLATION'] is null, '',
  ibec_Trim(FldData['FLD_COLLATION']));

  aDomainsComputedBy[i] = FldData['DOM_COMPUTEDBY'];
  i = i + 1;
end

ibec_UseConnection(DestDB);
DomainsAreOK = TRUE;
if (CopyDomains and (iUserDomainCount > 0)) then
begin
  ibec_Progress('Creating domains...');
  foreach (aDomains as Dom key DomIdx skip nulls) do
  begin
    if (exists(select rdb$field_name from rdb$fields where rdb$field_name
  = :Dom)) then
      Continue;
    CreateStmt = 'CREATE DOMAIN ' +
                ibec_IIF(DestDBSQLDialect = 3, ibec_QuotedStr(:Dom,
  ''), ibec_AnsiUpperCase(:Dom)) +
                ' AS ' + sType;
    try
      execute statement :CreateStmt;
      commit;
    except
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```
        DomainsAreOK = FALSE;
        rollback;
    end;
end;
end;
end

FieldsList = '';

CreateStmt = 'CREATE TABLE ' + DestTableNameFmt;
foreach (aFields as FldName index FldKey skip nulls) do
begin
    sType = '';
    if (FieldsList <> '') then
        FieldsList .= ',' + CRLF;
    FldNameFmt = ibec_IIF(DestDBSQLDialect = 3, ibec_QuotedStr(:FldName,
'''), ibec_AnsiUpperCase(:FldName));
    if (DomainsAreOK and (aDomains[FldKey] is not null)) then
        FieldsList .= FldNameFmt + ' ' + aDomains[FldKey];
    else
        FieldsList .= FldNameFmt + ' ' + aTypes[FldKey];
    if ((aDomains[FldKey] is null) and (aFieldsCharset[FldKey] <> '')) then
        FieldsList .= ' CHARACTER SET ' + aFieldsCharset[FldKey];
    FieldsList .= aFieldsDefault[FldKey] + aFieldsNotNull[FldKey];
    if (aFieldsCollate[FldKey] <> '') then
        FieldsList .= ' COLLATE ' + aFieldsCollate[FldKey];
    end
    CreateStmt .= ' (' + CRLF + FieldsList + ')';

    ibec_UseConnection(DestDB);
    try
        ibec_Progress('Creating table ' + DestTableNameFmt + '...');
        execute statement :CreateStmt;
        commit;
        ibec_Progress(Success);

        TblName = ibec_IIF(DestDBSQLDialect = 3, :DestTableName,
ibec_AnsiUpperCase(:DestTableName));
        foreach (aFieldsComment as FldComment key FldKey skip nulls) do
        begin
            FldName = aFields[FldKey];
            update rdb$relation_fields set rdb$description = :FldComment
                where (rdb$relation_name = :TblName) and (rdb$field_name =
:FldName);
        end;
        commit;
    except
        ibec_Progress(Failed);
        rollback;
    end;
end;
```

```
-----  
-- TRANSFER TABLE DATA -----  
-----  
if (CopyData) then  
begin  
  sFields = '';  
  sValues = '';  
  foreach (aFields as FldName key FldKey) do  
  begin  
    if (aDomainsComputedBy[FldKey] is null) then  
    begin  
      if (sFields <> '') then  
      begin  
        sFields .= ', '  
        sValues .= ', '  
      end;  
      FldNameFmt = ibec_IIF(DestDBSQLDialect = 3,  
ibec_QuotedStr(:FldName, ''), ibec_AnsiUpperCase(:FldName));  
      sFields .= FldNameFmt;  
      sValues .= ':' + FldNameFmt;  
    end;  
  end;  
  
  SelectStmt = 'SELECT ' + sFields + ' FROM ' + SrcTableNameFmt;  
  InsertStmt = 'INSERT INTO ' + DestTableNameFmt + ' (' + sFields + '  
VALUES (' + sValues + ')';  
  
  ibec_UseConnection(SrcDB);  
  i = 0;  
  ibec_Progress('Copying table data...');  
  for execute statement :SelectStmt into :Data  
  do  
  begin  
    ibec_UseConnection(DestDB);  
    execute statement :InsertStmt values :Data;  
    i = i + 1;  
    if (ibec_mod(i, 500) = 0) then  
    begin  
      commit;  
      ibec_Progress('      ' + ibec_cast(i, __typeString) + ' records  
copied...');  
    end;  
  end;  
  ibec_Progress('Totally ' + ibec_cast(i, __typeString) + ' records  
copied.');
```

```
  ibec_UseConnection(DestDB);  
  commit;  
end;  
  
if (CopyTriggers or CopyPrimaryKey or CopyGenerators) then  
begin
```

```

    ibec_UseConnection(SrcDB);
    TblName = ibec_IIF(SrcDBSQLDialect = 3, :SrcTableName,
ibec_AnsiUpperCase(:SrcTableName));
    i = 0;
    ibec_Progress('Collecting triggers info...');
    for select T.RDB$TRIGGER_NAME, T.RDB$TRIGGER_TYPE,
T.RDB$TRIGGER_SEQUENCE,
            T.RDB$TRIGGER_INACTIVE, T.RDB$TRIGGER_SOURCE
    from RDB$TRIGGERS T
    left join RDB$CHECK_CONSTRAINTS C on C.RDB$TRIGGER_NAME =
T.RDB$TRIGGER_NAME
    where ((T.RDB$SYSTEM_FLAG = 0) or (T.RDB$SYSTEM_FLAG is null)) and
            (C.rdb$trigger_name is null) and (T.RDB$RELATION_NAME =
:TblName)
    order by T.RDB$TRIGGER_NAME
    into :TrgData
do
begin
    aTriggerNames[i] = ibec_Trim(TrgData['RDB$TRIGGER_NAME']);
    aTriggerTypes[i] =
ibec_IBTriggerTypeToStr(TrgData['RDB$TRIGGER_TYPE']);
    aTriggerPositions[i] = TrgData['RDB$TRIGGER_SEQUENCE'];
    aTriggerInactives[i] = ibec_IIF(TrgData['RDB$TRIGGER_INACTIVE'] = 1,
'INACTIVE', 'ACTIVE');
    aTriggerSources[i] = TrgData['RDB$TRIGGER_SOURCE'];
    i = i + 1;
end;

select rc.rdb$constraint_name,
       rc.rdb$index_name
from rdb$relation_constraints rc
where (rc.rdb$constraint_type = 'PRIMARY KEY') and
(rc.rdb$relation_name = :TblName)
into :PKData;

if (PKData is not null) then
begin
    i = 0;
    PKIdxName = ibec_Trim(PKData[1]);
    for select rdb$field_name
    from rdb$index_segments
    where rdb$index_name = :PKIdxName
    order by rdb$field_position
    into :PKField
do
begin
    PKFields[i] = ibec_Trim(:PKField);
    i = i + 1;
end
end;
end;

```



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-----
-- COLLECTING GENERATOR NAMES USED WITHIN TRIGGERS
-----

i = 0;
ibec_Progress('Searching trigger bodies for used generators...');
foreach (aTriggerNames as TrgName key TrgKey skip nulls) do
begin
    TrgSrc = aTriggerSources[TrgKey];
    TrgNameFmt = ibec_IIF(SrcDBSQLDialect = 3, ibec_QuotedStr(:TrgName,
'''), ibec_AnsiUpperCase(:TrgName));
    TrgDDL = 'CREATE TRIGGER ' + TrgNameFmt + ' FOR ' + SrcTableNameFmt +
CRLF +
        aTriggerTypes[TrgKey] + ' POSITION ' +
ibec_Cast(aTriggerPositions[TrgKey], __typeString) + CRLF + TrgSrc;
    PSQLParser = ibec_psql_Parse(TrgDDL, SrcDBSqlDialect, __svUnknown);
    try
        if (ibec_psql_ErrorCount(PSQLParser) = 0) then
            begin
                iCount = ibec_psql_UsedObjects(PSQLParser, ObjNames, ObjTypes);
                if (iCount > 0) then
                    begin
                        foreach (ObjNames as ObjName key ObjKey skip nulls) do
                            if (ObjTypes[ObjKey] = __dboGenerator) then
                                if (ibec_IndexOfValue(Generators, ObjName) is null) then
                                    begin
                                        Generators[i] = ObjName;
                                        i = i + 1;
                                    end;
                                end;
                            end;
                        finally
                            ibec_psql_Free(PSQLParser);
                        end;
                    end;
                end;
            end;
        end;
    end;

-----
-- CREATING GENERATORS AND SETTING THEIR VALUES
-----

ibec_Progress('Creating and initting generators...');
foreach (Generators as GenName key GenKey skip nulls) do
begin
    ibec_UseConnection(DestDB);
    if (exists(select rdb$generator_name from rdb$generators where
rdb$generator_name = :GenName)) then
        Continue;

    ibec_UseConnection(SrcDB);
    GenNameFmt = ibec_IIF(SrcDBSQLDialect = 3, ibec_QuotedStr(:GenName,
'''), ibec_AnsiUpperCase(:GenName));

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```

    GetGenValueStmt = 'SELECT GEN_ID(' + GenNameFmt + ', 0) FROM
RDB$DATABASE';
    execute statement GetGenValueStmt into :GenValue;

    GenNameFmt = ibec_IIF(DestDBSQLDialect = 3, ibec_QuotedStr(:GenName,
'''), ibec_AnsiUpperCase(:GenName));
    CreateGenStmt = 'CREATE GENERATOR ' + GenNameFmt;
    SetGenStmt = 'SET GENERATOR ' + GenNameFmt + ' TO ' +
ibec_Cast(:GenValue, __typeString);

    ibec_UseConnection(DestDB);
    try
        ibec_Progress(' ' + GenNameFmt + '...');
        execute statement CreateGenStmt;
        commit;
        execute statement SetGenStmt;
        commit;
        ibec_Progress(Success);
    except
        ibec_Progress(Failed);
        rollback;
    end;
end;
end;

if (CopyTriggers) then
begin
    ibec_UseConnection(DestDb);
    ibec_Progress('Creating triggers...');
    foreach (aTriggerNames as TrgName key TrgKey skip nulls) do
    begin
        if (SrcTableName <> DestTableName) then
            TrgName = ibec_preg_Replace('(?!i)' + SrcTableName, DestTableName,
TrgName);
        TrgNameFmt = ibec_IIF(DestDBSQLDialect = 3, ibec_QuotedStr(:TrgName,
'''), ibec_AnsiUpperCase(:TrgName));
        CreateTrgStmt = 'CREATE TRIGGER ' + TrgNameFmt + ' FOR ' +
DestTableNameFmt + CRLF +
                aTriggerInactives[TrgKey] + ' ' +
aTriggerTypes[TrgKey] + ' POSITION ' + ibec_Cast(aTriggerPositions[TrgKey],
__typeString) + CRLF +
                aTriggerSources[TrgKey];

        WasError = FALSE;
        try
            ibec_Progress(' ' + TrgNameFmt + '...');
            execute statement :CreateTrgStmt;
            commit;
            ibec_Progress(BS + ' Successfull. ');
        except

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        ibec_Progress(BS + ' FAILED!');
        WasError = TRUE;
        rollback;
    end;

    if (WasError) then
    begin
        ibec_Progress('    Attempt to create trigger ' + TrgNameFmt + '
with commented body...');
        PSQLParser = ibec_psql_Parse(CreateTrgStmt, DestDBSqlDialect,
__svUnknown);
        try
            CreateTrgStmt = ibec_psql_CommentBody(PSQLParser);
        finally
            ibec_psql_Free(PSQLParser);
        end;
        try
            execute statement :CreateTrgStmt;
            ibec_Progress(BS + ' Successfull. ');
            commit;
        except
            ibec_Progress('    Failed. ');
            rollback;
        end;
    end;
end;
end;

if (CopyPrimaryKey) then
begin
    ibec_UseConnection(SrcDB);
    select rc.rdb$constraint_name, rc.rdb$index_name
           from rdb$relation_constraints rc
           where (rc.rdb$constraint_type = 'PRIMARY KEY') and
(rc.rdb$relation_name = :SrcTableName)
           into :PKData;
    if (PKData is not null) then
    begin
        PKIdxName = ibec_Trim(PKData[1]);
        sFields = '';
        for select rdb$field_name
           from rdb$index_segments
           where rdb$index_name = :PKIdxName
           order by rdb$field_position
           into :PKFields
        do
        begin
            if (sFields <> '') then
                sFields := ', ';
            FldName = ibec_Trim(PKFields[0]);
            FldNameFmt = ibec_IIF(DestDBSQLDialect = 3, ibec_QuotedStr(FldName,
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'"), ibec_AnsiUpperCase(FldName));
    sFields .= FldNameFmt;
end;
PKName = ibec_Trim(PKData[0]);

ibec_UseConnection(DestDB);
PKNameBase = 'PK_' + DestTableName + '_';
PKNameSuff = 0;
PKExists = 1;
while (PKExists is not null) do
begin
    PKNameSuff = PKNameSuff + 1;
    PKName = PKNameBase + ibec_Cast(PKNameSuff, __typeString);
    PKExists = null;
    select 1 from rdb$relation_constraints rc
        where (rc.rdb$constraint_type = 'PRIMARY KEY') and
(rc.rdb$constraint_name = :PKName)
        into :PKExists;
end;

    PKNameFmt = ibec_IIF(DestDBSQLDialect = 3, ibec_QuotedStr(PKName,
''), ibec_AnsiUpperCase(PKName));
    AlterStmt = 'ALTER TABLE ' + DestTableNameFmt + ' ADD CONSTRAINT ' +
PKNameFmt + ' PRIMARY KEY (' + sFields + ')';

    ibec_UseConnection(DestDB);
    try
        ibec_Progress('Creating primary key ' + PKNameFmt + '...');
        execute statement :AlterStmt;
        commit;
        ibec_Progress(Success);
    except
        ibec_Progress(Failed);
        rollback;
    end;
end;
end;

if (CopyIndices) then
begin
    ibec_Progress('Creating indices...');
    ibec_UseConnection(SrcDB);
    for select i.rdb$index_name, i.rdb$unique_flag, i.rdb$index_inactive,
i.rdb$index_type,
        i.rdb$expression_source, i.rdb$description
        from rdb$indices i
        left join rdb$relation_constraints rc on i.rdb$index_name =
rc.rdb$index_name
        where ((i.rdb$system_flag = 0) or (i.rdb$system_flag is null)) and
(rc.rdb$constraint_name is null)
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        and i.rdb$relation_name = :SrcTableName
    into :IdxData
do
begin
    IdxName = ibec_Trim(IdxData[0]);
    IdxNameFmt = ibec_IIF(DestDBSQLDialect = 3, ibec_QuotedStr(IdxName,
'''), ibec_AnsiUpperCase(IdxName));
    IdxUnique = ibec_IIF((IdxData[1] is null) or (IdxData[1] = 0), '',
'UNIQUE ');
    IdxActive = ibec_IIF((IdxData[2] is null) or (IdxData[1] = 0), '',
'INACTIVE ');
    IdxType = ibec_IIF((IdxData[3] is null) or (IdxData[1] = 0), '',
'DESCENDING ');
    IdxExpression = IdxData[4];
    IdxDescription = IdxData[5];

    sFields = '';
    for select rdb$field_name
        from rdb$index_segments
        where rdb$index_name = :IdxName
        order by rdb$field_position
        into :IdxFields
    do
    begin
        if (sFields <> '') then
            sFields .= ', ';
        FldName = ibec_Trim(IdxFields[0]);
        FldNameFmt = ibec_IIF(DestDBSQLDialect = 3, ibec_QuotedStr(FldName,
'''), ibec_AnsiUpperCase(FldName));
        sFields .= FldNameFmt;
    end;

    ibec_UseConnection(DestDB);
    IDXExists = null;
    select 1 from rdb$indices where rdb$index_name = :IdxName into
:IDXExists;
    if (IDXExists is not null) then
    begin
        IDXNameBase = 'IDX_' + DestTableName + '_';
        IDXNameSuff = 0;
        IDXExists = 1;
        while (IDXExists is not null) do
        begin
            IDXNameSuff = IDXNameSuff + 1;
            IdxName = IDXNameBase + ibec_Cast(IDXNameSuff, __typeString);
            IDXExists = null;
            select 1 from rdb$indices where rdb$index_name = :IdxName into
:IDXExists;
        end;
        IdxNameFmt = ibec_IIF(DestDBSQLDialect = 3, ibec_QuotedStr(IdxName,
'''), ibec_AnsiUpperCase(IdxName));

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end;

CreateIndexStmt = 'CREATE ' + IdxUnique + IdxType + 'INDEX ' +
IdxNameFmt + ' ON ' +
                DestTableNameFmt;
if (IdxExpression is not null) then
    CreateIndexStmt := ' COMPUTED BY (' + IdxExpression + ')';
else
    CreateIndexStmt := ' (' + sFields + ')';

ibec_UseConnection(DestDB);
try
    ibec_Progress(' ' + IdxNameFmt + '...');
    execute statement :CreateIndexStmt;
    commit;
    if (IdxActive <> '') then
        begin
            ibec_Progress(BS + ' Making inactive...');
            execute statement 'ALTER INDEX ' || IdxNameFmt || ' INACTIVE';
            commit;
        end;
    ibec_Progress(Success);
except
    ibec_Progress(Failed);
    rollback;
end;
ibec_UseConnection(SrcDB);
end;
end;

finally
    if (SrcDB is not null) then
        begin
            ibec_Progress('Closing connection to ' + SrcDBConnStr + '...');
            ibec_CloseConnection(SrcDB);
        end;
    if (DestDB is not null) then
        begin
            ibec_Progress('Closing connection to ' + DestDBConnStr + '...');
            ibec_CloseConnection(DestDB);
        end;
    Time2 = ibec_GetTickCount();
    sTime = ibec_div((Time2 - Time1), 1000) || '.' || ibec_mod((Time2 -
Time1), 1000);
    ibec_Progress('Finished. ');
    ibec_Progress('Total time spent: ' || sTime || ' seconds');
    ibec_Progress('That''s all, folks!');
end;
end
```

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