Posted by on Fri, 20 Jan 2023 08:21:11 GMT
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http://www.ibase.ru/ibx/#ibdataset

6. RecordCount < BufferChunks?

Posted by kdv on Fri, 20 Jan 2023 08:51:44 GMT
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https://docwiki.embarcadero.com/Libraries/Sydney/en/IBX.IBCustomDataSet.TIBCustomDataSet.BufferChunks

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dbaware.

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dbaware.

Posted by on Fri, 20 Jan 2023 12:00:05 GMT
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```
ExecQuery;
while not EOF do
  begin
    . . .
    Next;
  end;
```

Posted by SD on Fri, 20 Jan 2023 12:38:34 GMT
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Posted by on Fri, 20 Jan 2023 12:46:27 GMT
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```
procedure TForm1.Button1Click(Sender: TObject);
begin
  if not IBDatabase1.Connected then IBDatabase1.Connected:= True;
  try
    IBTransaction1.StartTransaction;

    MemDataset1.Active:= True;

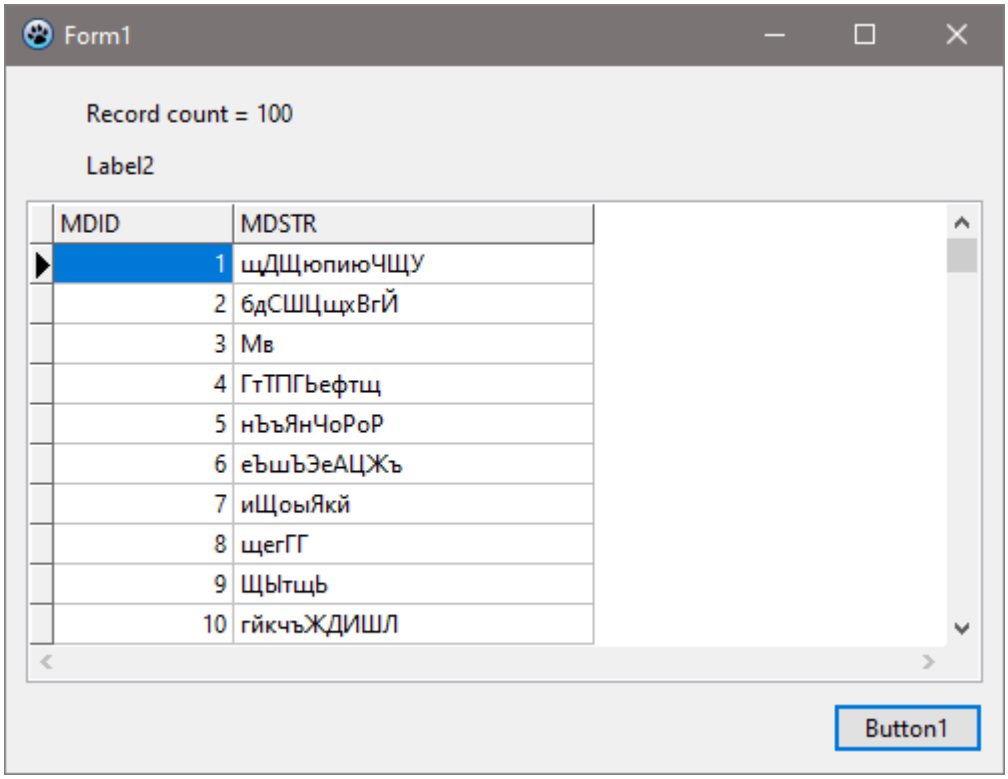
    with IBSQL1 do
    begin
      SQL.Text:= 'SELECT COUNT (ID) ID FROM TEST';
      ExecQuery;
      Label1.Caption:= 'Record count = ' + FieldByName('ID').AsString;

      SQL.Text:= 'SELECT ID, NAME FROM TEST';
      Prepare;
      ExecQuery;

      while not IBSQL1.Eof do
      begin
        MemDataset1.AppendRecord([FieldByName('ID').AsInteger,
FieldByName('NAME').AsString]);
        Next;
      end;
    end;
    IBTransaction1.Commit;
  except
    on E:Exception do
    begin
      IBTransaction1.Rollback;
      ShowMessage(E.Message);
    end;
  end;
end;
```

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Posted by on Fri, 20 Jan 2023 14:55:29 GMT
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Posted by on Fri, 20 Jan 2023 18:57:22 GMT
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RecordCount.

3. IBQuery.Last = IBQuery.FetchAll

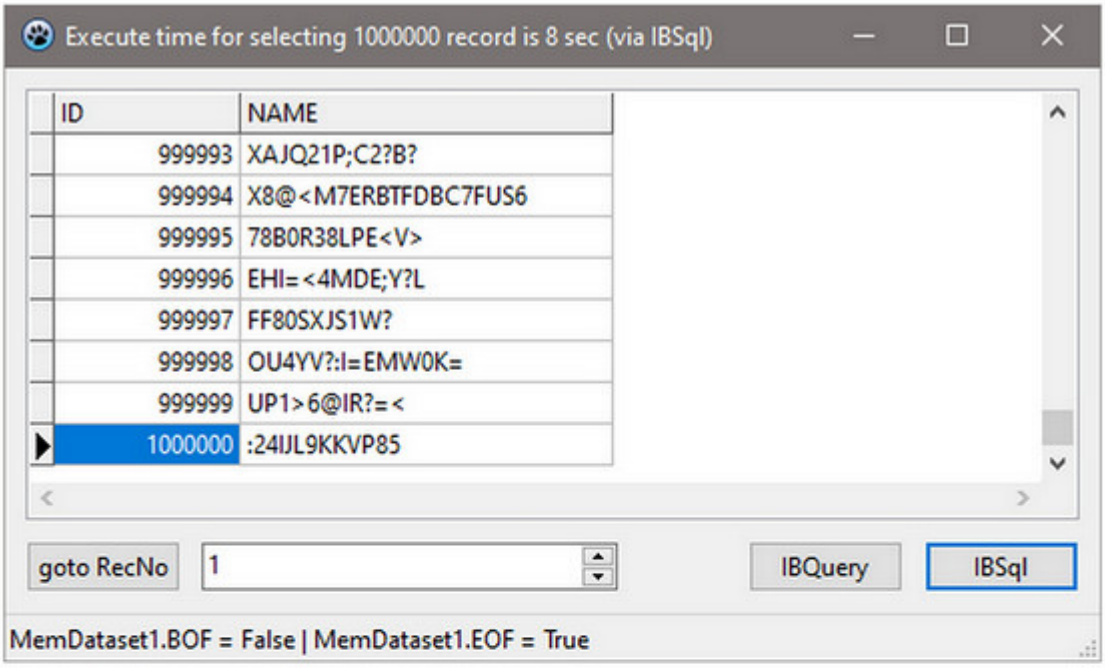
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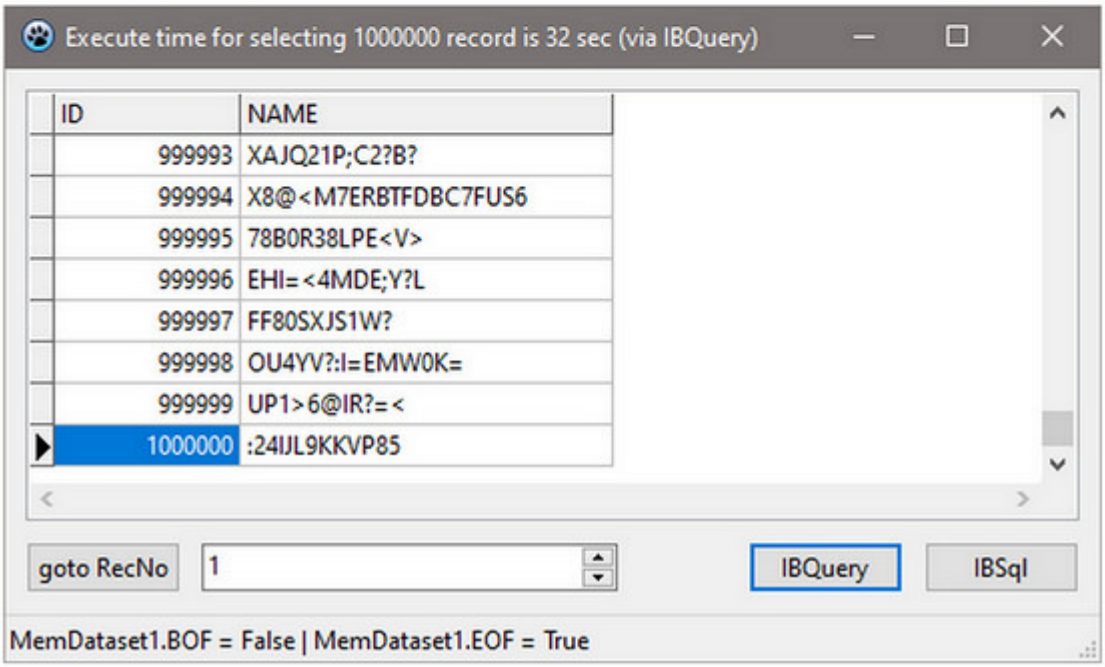
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IBQuery o_O

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RecordCount.

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...

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```
const
  MinCount = 100000;
var
  Form1: TForm1;

implementation
...
procedure TForm1.Button2Click(Sender: TObject);
var
```

```
  ExecSQL: TIBSQL = Nil;
  startTick: PtrInt = 0;
  endTick: PtrInt = 0;
  MyThread: TMyThread = nil;
  i: Integer;
  rNode: PVirtualNode = nil;
  rNodeData: PMyRec = nil;
begin
  for i:= 0 to Pred(StatusBar1.Panels.Count) do
    StatusBar1.Panels[i].Text:= '';

  if not IBDatabase1.Connected then IBDatabase1.Connected:= True;

  ExecSQL:= TIBSQL.Create(Self);

  try
    try
      startTick:= GetTickCount64;
      IBTransaction1.StartTransaction;

      ExecSQL.Database:= IBDatabase1;
      ExecSQL.Transaction:= IBTransaction1;

      ExecSQL.SQL.Text:= 'SELECT COUNT(ID) CNT FROM TEST';
      ExecSQL.ExecQuery;

      if (ExecSQL.FieldByName('CNT').AsInteger > MinCount) then
      begin
        MyThread:= TMyThread.Create(True);
        MyThread.Start;
      end;

      ExecSQL.SQL.Text:= 'SELECT ID, NAME FROM TEST';
      ExecSQL.ExecQuery;

      VST_partial.BeginUpdate;
      try
        VST_partial.Clear;

        while (ExecSQL.RecordCount < Succ(MinCount)) do
        begin
          rNode:= VST_partial.AddChild(nil);
          rNodeData:= VST_partial.GetNodeData(rNode);
          rNodeData^.ID:= ExecSQL.FieldByName('ID').AsInteger;
          rNodeData^.Name:= ExecSQL.FieldByName('NAME').AsString;
          VST_partial.AddChild(rNode);
          ExecSQL.Next;
        end;
```

```
      finally
        VST_partial.EndUpdate;
        VST_partial.ScrollIntoView(rNode,True);
        VST_partial.AddToSelection(rNode);
        VST_partial.Expanded[rNode]:= False;
      end;

      endTick:= GetTickCount64;

      StatusBar1.Panels[0].Text:= Format('Executing time of inserting %d records into the
VST_partial is %d msec',
                                [MinCount, (endTick - startTick)]);
      StatusBar1.Panels[0].Width:= StatusBar1.Canvas.TextWidth(StatusBar1.Panels[0].Text)
                    + StatusBar1.Canvas.TextWidth('W');
      IBTransaction1.Commit;
    except
      on E:Exception do
      begin
        IBTransaction1.Rollback;
        {$IFDEF MSWINDOWS}
        ShowMessage(WinCPToUTF8(E.Message));
        {$ELSE}
        ShowMessage(E.Message);
        {$ENDIF}
      end;
    end;
  finally
    FreeAndNil(ExecSQL);
  end;
end;

procedure TMyThread.Execute;
begin
  try
    if not Fdbase.Connected then Fdbase.Connected:= True;

    FTrans.StartTransaction;
    FexecSQL.ExecQuery;//SQL.Text:= 'SELECT ID, NAME FROM TEST';

    Form1.VST_full.Clear;

    while not FexecSQL.Eof do
    begin
      Synchronize(@AddNodeToExtVST);
      Sleep(1);
      FexecSQL.Next;
    end;
```

```
    FTrans.Commit;
  except
    on E:Exception do
    begin
      FTrans.Rollback;
      {$IFDEF MSWINDOWS}
      ShowMessage(WinCPToUTF8(E.Message));
      {$ELSE}
      ShowMessage(E.Message);
      {$ENDIF}
    end;
  end;
end;

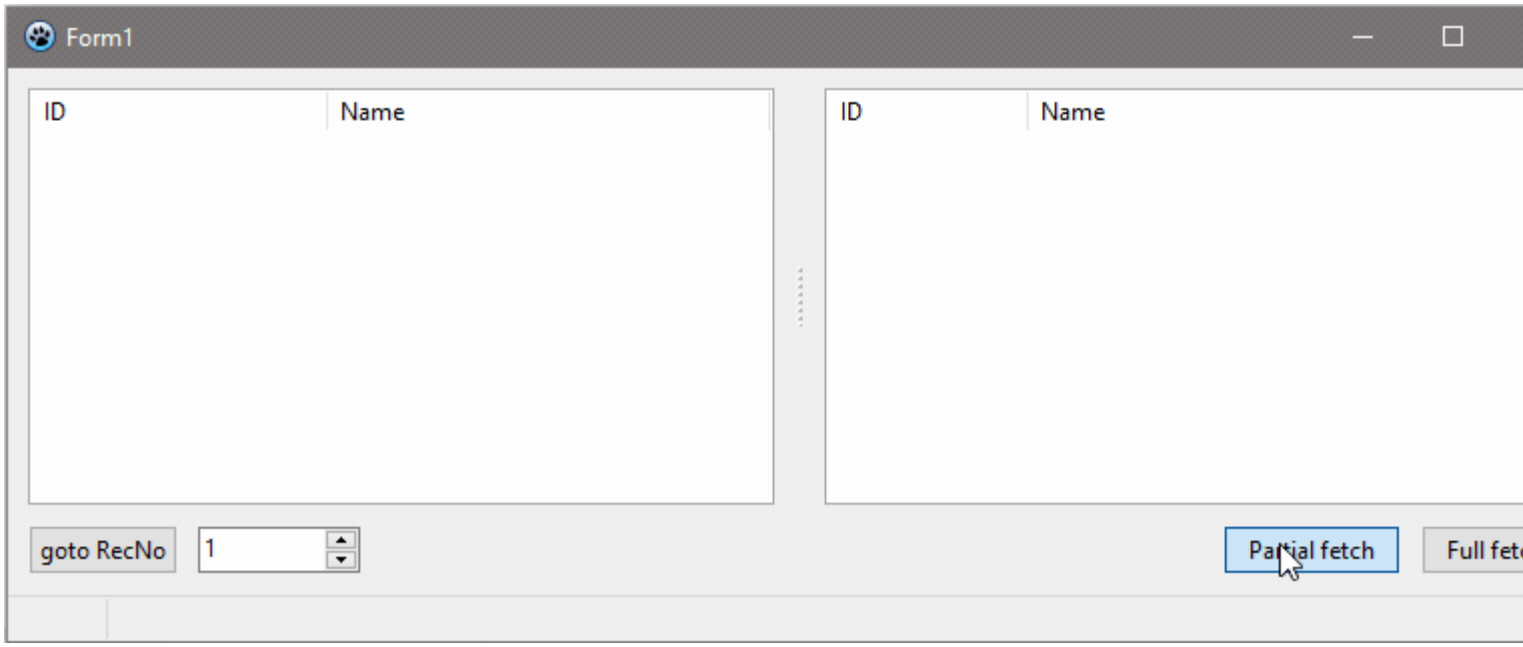
procedure TMyThread.AddNodeToExtVST;
var
  aNode: PVirtualNode = nil;
  aNodeData: PMyRec = nil;
begin
  with Form1 do
  begin
    //VST_full.BeginUpdate;
    try
      aNode:= VST_full.AddChild(nil);
      aNodeData:= VST_full.GetNodeData(aNode);

      if Assigned(aNodeData) then
      begin
        aNodeData^.ID:= FexecSQL.FieldByName('ID').AsInteger;
        aNodeData^.Name:= FexecSQL.FieldByName('NAME').AsString;
        VST_full.AddChild(aNode);
      end;

    finally
      //VST_full.EndUpdate;
      //VST_full.ScrollIntoView(aNode,True);
    end;
  end;
end;
```

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1) vst_1.gif, downloaded 1196 times



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```
rNodeData:= VST_partial.GetNodeData(rNode);
        rNodeData^.ID:= ExecSQL.FieldByName('ID').AsInteger;
```

```
rNodeData^.Name:= ExecSQL.FieldByName('NAME').AsString;
VST_partial.AddChild(rNode);
```

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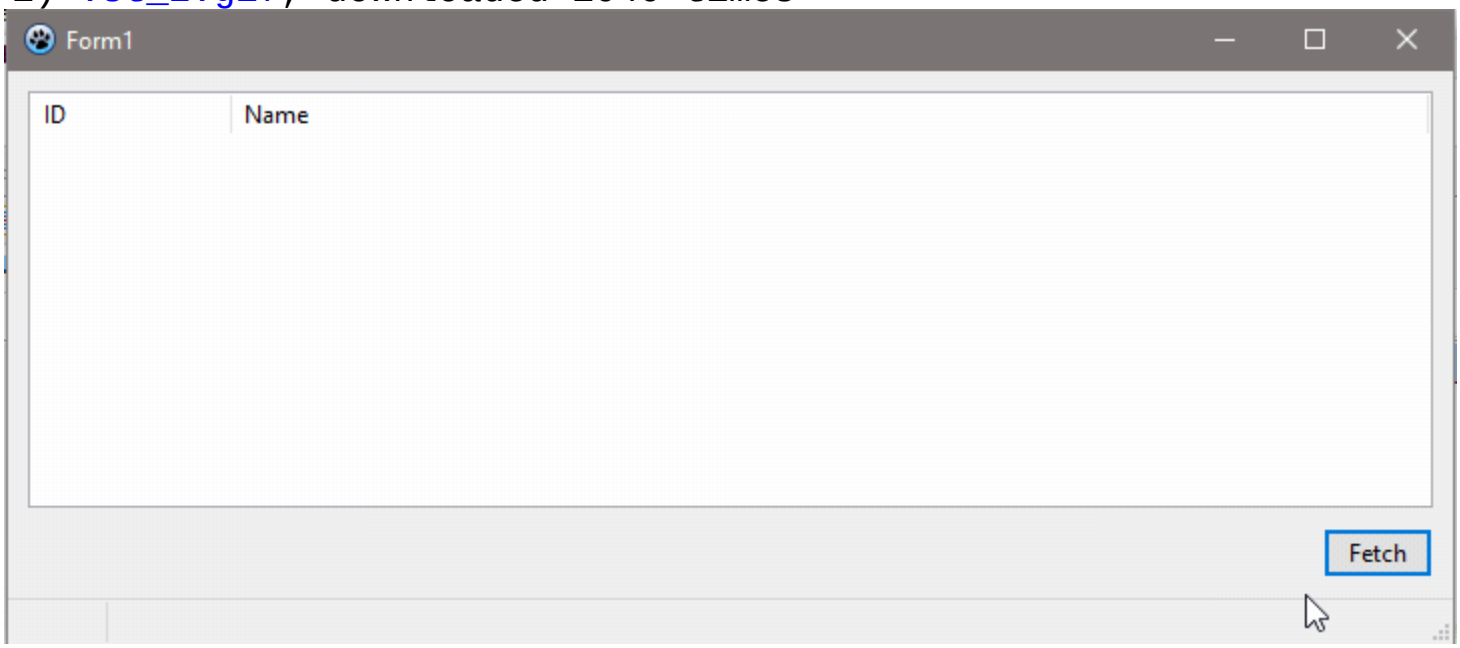
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https://bitbucket.org/zoltanleo/vtv_fill/src/main/

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...

```
select S.ID s_id, S.NAME s_name, C.NAME c_name from STREET S
join CITY C on C.ID = S.CITY_ID
```

```
const

  c_dbn = '127.0.0.1/3100:D:/Trash/tstVST/streets.fdb';

  c_lbn = 'D:/Program Design/Delphi2007/EstExe/bcSupport/fbClient/fbclient.dll';
```

```
procedure TForm1.LoadIds;
var
  i: Integer;
begin
  qSelectIds.ExecQuery;
  SetLength(fIds, 10000);
  i := 0;
  while not qSelectIds.Eof do
  begin
    if i = Length(fIds) then
      SetLength(fIds, Length(fIds) + 10000);
    fIds[i] := qSelectIds.Fields[0].AsInteger;
    Inc(i);
```

```
    qSelectIds.Next;
  end;
  SetLength(fIds, i);
end;

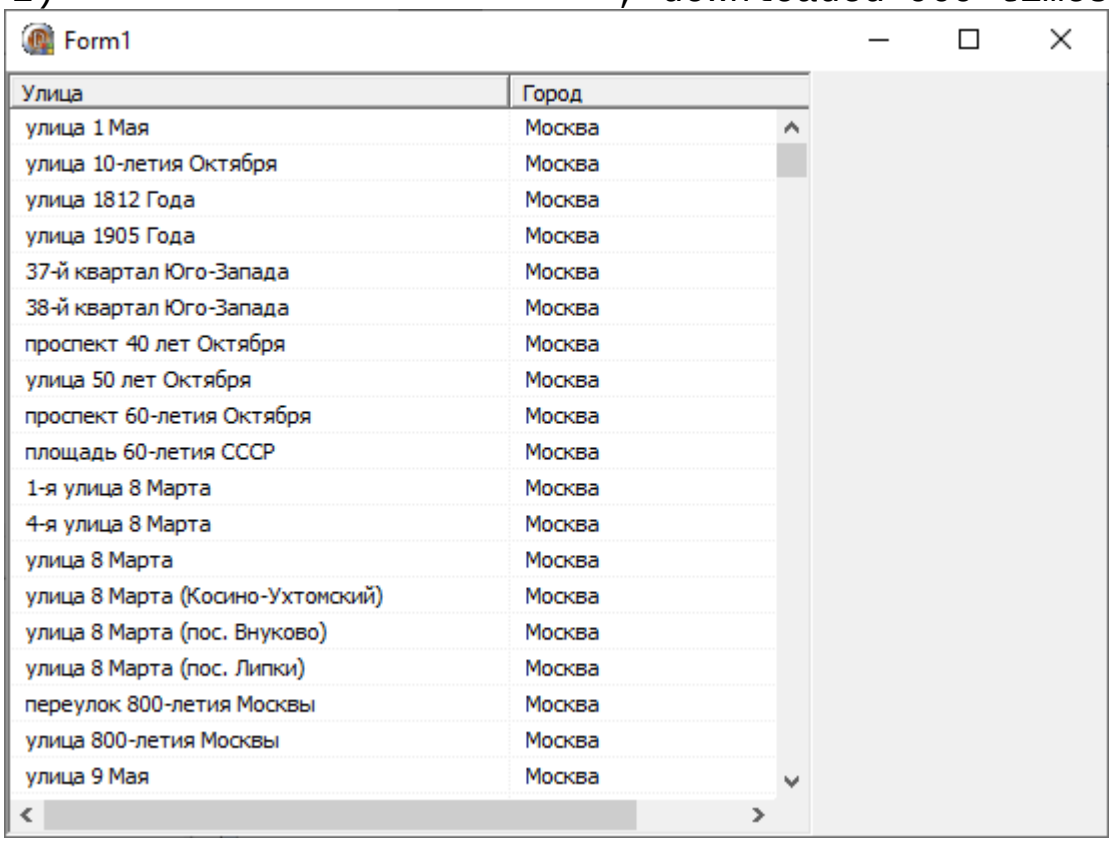

  vstMain.RootNodeCount := Length(fIds);


select S.NAME, C.NAME
from STREET S
join CITY C on C.ID = S.CITY_ID
where S.ID = :ID


procedure TForm1.vstMainGetText(Sender: TBaseVirtualTree; Node: PVirtualNode;
  Column: TColumnIndex; TextType: TVSTTextType; var CellText: WideString);
begin
  if not Assigned(Node) then Exit;
  if not (Column in [0, 1]) then Exit;

  if qSelectAll.Params[0].AsInteger <> fIds[Node.Index] then
  begin
    qSelectAll.Params[0].AsInteger := fIds[Node.Index];
    qSelectAll.ExecQuery;
  end;
  CellText := qSelectAll.Fields[Column].AsString;
end;
```

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ExecQuery? 8o

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