
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;
```

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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;

```

File Attachments

1) [scr_001.png](#), downloaded 1658 times

Form1

Record count = 100

Label2

MDID	MDSTR
1	щДЩюпиюЧЩУ
2	бдСШЦщхВгЙ
3	Мв
4	ГтПГЬефтщ
5	нЪъЯнЧоРоР
6	еЪшЪЭеАЦЖЪ
7	иЩоыЯкй
8	щегГГ
9	ЩЫтщЪ
10	гйкчЪЖДИШЛ

Button1

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Posted by [kdv](#) on Fri, 20 Jan 2023 14:33:39 GMT
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Posted by [kdv](#) on Fri, 20 Jan 2023 14:38:58 GMT

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Posted by [kdv](#) on Fri, 20 Jan 2023 14:44:12 GMT

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Posted by [kdv](#) on Fri, 20 Jan 2023 14:54:49 GMT
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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

Posted by [kdv](#) on Fri, 20 Jan 2023 19:15:44 GMT
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Posted by on Fri, 20 Jan 2023 19:53:25 GMT
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Posted by on Sun, 22 Jan 2023 21:04:32 GMT
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IBQuery o_O

File Attachments

1) [2023-01-23_000026.jpg](#), downloaded 1496 times

Execute time for selecting 1000000 record is 8 sec (via IBSql)

ID	NAME
999993	XAJQ21P;C2?B?
999994	X8@<M7ERBTFDBC7FUS6
999995	78B0R38LPE<V>
999996	EHl=<4MDE;Y?L
999997	FF80SXJS1W?
999998	OU4YV?:l=EMW0K=
999999	UP1>6@IR?=<
1000000	:24IJL9KKVP85

goto RecNo 1 IBQuery IBSql

MemDataset1.BOF = False | MemDataset1.EOF = True

Execute time for selecting 1000000 record is 32 sec (via IBQuery)

ID	NAME
999993	XAJQ21P;C2?B?
999994	X8@<M7ERBTFDBC7FUS6
999995	78B0R38LPE<V>
999996	EHl=<4MDE;Y?L
999997	FF80SXJS1W?
999998	OU4YV?:l=EMW0K=
999999	UP1>6@IR?=<
1000000	:24IJL9KKVP85

goto RecNo 1 IBQuery IBSql

MemDataset1.BOF = False | MemDataset1.EOF = True

Posted by [fraks](#) on Mon, 23 Jan 2023 02:46:00 GMT
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15:49

Posted by [fraks](#) on Mon, 23 Jan 2023 02:54:30 GMT
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RecordCount.

Posted by [kdv](#) on Mon, 23 Jan 2023 18:28:17 GMT

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Posted by [DarkMaster](#) on Tue, 24 Jan 2023 16:34:58 GMT

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on Tue, 24 Jan 2023 17:28:58 GMT

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<https://www.youtube.com/watch?v=iwwgZuPRavU>

Posted by on Wed, 25 Jan 2023 10:32:59 GMT

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Posted by [fraks](#) on Thu, 26 Jan 2023 01:43:29 GMT
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Posted by on Thu, 26 Jan 2023 20:56:08 GMT
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Posted by [SD](#) on Thu, 26 Jan 2023 22:40:14 GMT
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Posted by

on Fri, 27 Jan 2023 03:34:34 GMT

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...

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Posted by [tarakan](#) on Sat, 28 Jan 2023 10:44:16 GMT
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Posted by
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on Sat, 28 Jan 2023 14:18:09 GMT

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on Sun, 29 Jan 2023 00:33:26 GMT

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on Sun, 29 Jan 2023 00:36:40 GMT

Posted by

on Sun, 29 Jan 2023 00:37:52 GMT

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Posted by

on Sun, 29 Jan 2023 08:41:02 GMT

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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;
        end;
      end;
    end;
  end;
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;
  end;
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;
end;

```

File Attachments

1) [vst_1.gif](#), downloaded 1231 times

Form1

ID

Name

ID

Name

goto RecNo

1

Partial fetch

Full fet

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<https://mega.nz/folder/MJhimCib#himoZzX1uayspf7arV5Gbw>

Posted by on Sun, 29 Jan 2023 23:15:01 GMT
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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);
```

Posted by _____ on Mon, 30 Jan 2023 08:46:59 GMT
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Posted by [svd](#) on Mon, 30 Jan 2023 13:34:24 GMT
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https://bitbucket.org/zoltanleo/vtv_fill/src/main/

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1) [vst_2.gif](#), downloaded 1071 times

Form1

ID	Name
----	------

Fetch

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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(flds, 10000);
  i := 0;
  while not qSelectIds.Eof do
  begin
    if i = Length(flds) then
      SetLength(flds, Length(flds) + 10000);
    flds[i] := qSelectIds.Fields[0].AsInteger;
    Inc(i);
  end;
```

```

    qSelectIds.Next;
end;
SetLength(flds, i);
end;

```

```

vstMain.RootNodeCount := Length(flds);

```

```

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

```

```

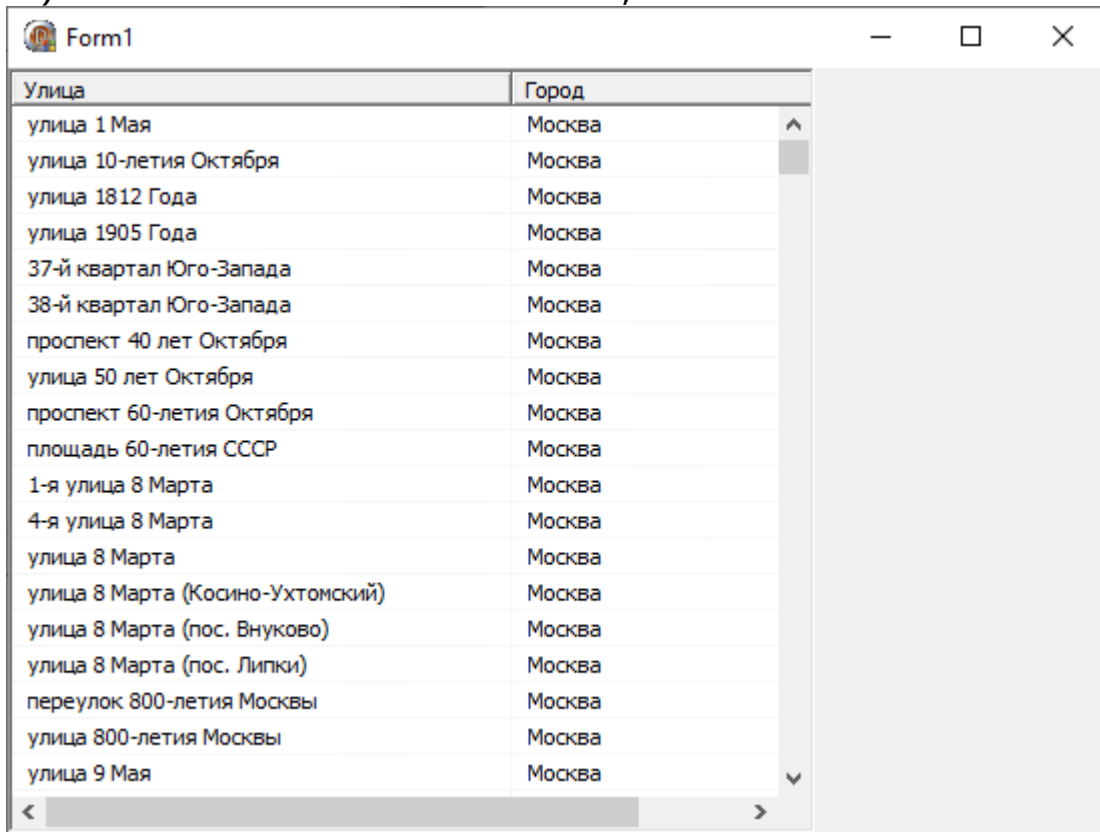
procedure TForm1.vstMainGetText(Sender: TBaseVirtualTree; Node: PVirtualNode;
    Column: TColumnIndex; TextType: TVSTTextType; var CellText: WideString);
begin
    if not Assigned(Node) then Exit;
    if not (Column in [0, 1]) then Exit;

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

```

File Attachments

- 1) [tstVST.7z](#), downloaded 195 times
- 2) [tstVST.7z](#), downloaded 940 times



The screenshot shows a Windows application window titled "Form1". Inside the window is a table with two columns: "Улица" (Street) and "Город" (City). The table lists 20 streets, all of which are in Moscow. The streets listed are: улица 1 Мая, улица 10-летия Октября, улица 1812 Года, улица 1905 Года, 37-й квартал Юго-Запада, 38-й квартал Юго-Запада, проспект 40 лет Октября, улица 50 лет Октября, проспект 60-летия Октября, площадь 60-летия СССР, 1-я улица 8 Марта, 4-я улица 8 Марта, улица 8 Марта, улица 8 Марта (Косино-Ухтомский), улица 8 Марта (пос. Внуково), улица 8 Марта (пос. Липки), переулок 800-летия Москвы, улица 800-летия Москвы, and улица 9 Мая. The table has a scrollbar on the right side, indicating that there are more rows than are currently visible. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

Улица	Город
улица 1 Мая	Москва
улица 10-летия Октября	Москва
улица 1812 Года	Москва
улица 1905 Года	Москва
37-й квартал Юго-Запада	Москва
38-й квартал Юго-Запада	Москва
проспект 40 лет Октября	Москва
улица 50 лет Октября	Москва
проспект 60-летия Октября	Москва
площадь 60-летия СССР	Москва
1-я улица 8 Марта	Москва
4-я улица 8 Марта	Москва
улица 8 Марта	Москва
улица 8 Марта (Косино-Ухтомский)	Москва
улица 8 Марта (пос. Внуково)	Москва
улица 8 Марта (пос. Липки)	Москва
переулок 800-летия Москвы	Москва
улица 800-летия Москвы	Москва
улица 9 Мая	Москва

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ExecQuery? 80

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on Wed, 01 Feb 2023 21:47:47

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Posted by [basid](#) on Thu, 02 Feb 2023 05:38:40 GMT

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on Thu, 02 Feb 2023 06:31:47

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Posted by on Thu, 02 Feb 2023 10:40:41 GMT

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on Fri, 03 Feb 2023 09:15:03 GMT

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Posted by on Fri, 03 Feb 2023 14:17:13 GMT

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Posted by [hvlad](#) on Fri, 03 Feb 2023 14:34:48 GMT

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