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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;

```

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1) [scr_001.png](#), downloaded 3600 times

Form1

Record count = 100

Label2

MDID	MDSTR
1	щДЩюпиюЧЩУ
2	бдСШЩщхВгЙ
3	Мв
4	ГтПГЬефтщ
5	нЪЪЯнЧоРоР
6	еЪшЪЭеАЦЖЪ
7	иЩоыЯкй
8	щегГГ
9	Щытщф
10	гйкчЪЖДИШЛ

Button1

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RecordCount.

3. IBQuery.Last = IBQuery.FetchAll

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IBQuery o_O

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1) [2023-01-23_000026.jpg](#), downloaded 4031 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	EHI= <4MDE;Y?L
999997	FF80SXJS1W?
999998	OU4YV?:! = 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	EHI= <4MDE;Y?L
999997	FF80SXJS1W?
999998	OU4YV?:! = 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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<https://www.youtube.com/watch?v=iwwgZuPRavU>

Posted by on Wed, 25 Jan 2023 10:32:59 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;
          end;
        end;
      finally
        VST_partial.EndUpdate;
      end;
    finally
      IBTransaction1.Commit;
    end;
  finally
    ExecSQL.Free;
  end;
end;

```

```

    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;
end;

```

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1) [vst_1.gif](#), downloaded 3040 times

Form1

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

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

goto RecNo

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

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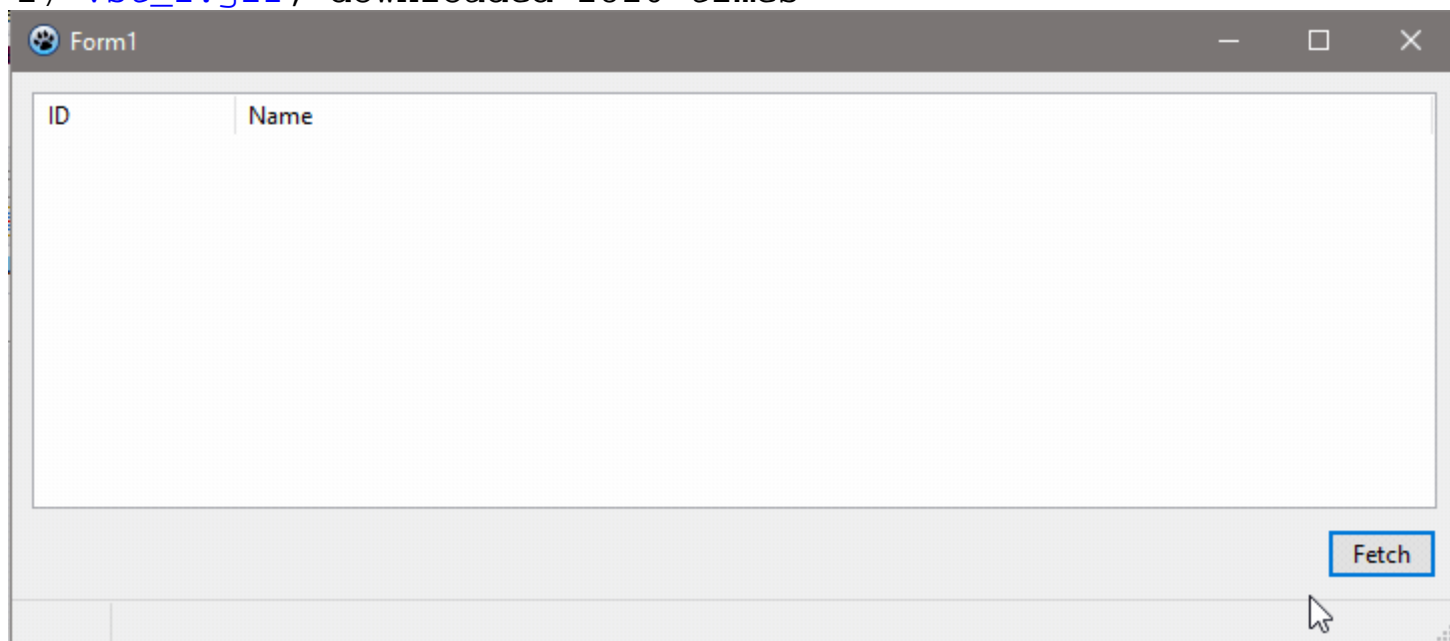
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https://bitbucket.org/zoltanleo/vtv_fill/src/main/

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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(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  
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;
```

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ExecQuery? 80

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