
Subject: MSSQL binary data

Posted by [mirek](#) on Fri, 21 Nov 2008 14:24:21 GMT

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Well, I needed to store image files into MSSQL and found we have no real support there yet...

I guess this should be addressed soon, anyway, for now, here is very simple function to workaround the insert/update (fetch seems to work):

```
SqlVal MsSqlBinary(const String& data)
{
    return SqlVal("convert(varbinary(max), '0x' + HexString(data) + '', 1)", SqlS::FN);
}
```

Mirek

Subject: Re: MSSQL binary data

Posted by [mirek](#) on Fri, 21 Nov 2008 20:23:37 GMT

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luzr wrote on Fri, 21 November 2008 09:24Well, I needed to store image files into MSSQL and found we have no real support there yet...

I guess this should be addressed soon, anyway, for now, here is very simple function to workaround the insert/update (fetch seems to work):

```
SqlVal MsSqlBinary(const String& data)
{
    return SqlVal("convert(varbinary(max), '0x' + HexString(data) + '', 1)", SqlS::FN);
}
```

Mirek

Well, this simpler variant works too:

```
SqlVal MsSqlBinary(const String& data)
{
    return SqlVal("0x" + HexString(data), SqlS::HIGH);
}
```

Interestingly, it seems like similar method should work for Oracle and MySql as well:

<http://www.herongyang.com/jdbc/Oracle-BLOB-SQL-INSERT.html>

Something to add to SqlExp. So far, with Oracle, I was always using SqlRaw, but that means no SqlExp...

Mirek

Subject: Re: MSSQL binary data
Posted by [captainc](#) on Fri, 21 Nov 2008 23:04:57 GMT
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What kind of use cases store images in sql relational databases?

Subject: Re: MSSQL binary data
Posted by [mirek](#) on Sun, 23 Nov 2008 17:37:14 GMT
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captainc wrote on Fri, 21 November 2008 18:04What kind of use cases store images in sql relational databases?

In this case, pictures of employees

Anyway, I always like to store raw data (like images or long documents) into central database. I removes at least two maintainance variables

- stored in DB, I do not need predefined network path
- DB is backedup, I need not to worry about separate backup or about restoring the same snapshot of files and DB data

Mirek

Subject: Re: MSSQL binary data
Posted by [captainc](#) on Sun, 23 Nov 2008 19:55:46 GMT
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Those are good benefits. I'm interested, what kind of database do you use for binary data? What kind of settings do you set on the database? What is the schema like?

Subject: Re: MSSQL binary data
Posted by [mirek](#) on Sun, 23 Nov 2008 21:28:34 GMT

captainc wrote on Sun, 23 November 2008 14:55 Those are good benefits. I'm interested, what kind of database do you use for binary data? What kind of settings do you set on the database? What is the schema like?

Ehm, usually I use DB per customer request.

Over time, I was storing binary data into Oracle, PGSQL and now in MSSQL. In fact, any single commercial app I have ever developed did it.

No special setting on DB. It should handle it just fine.

Nothing special about the schema either. It is just large binary column, that is all.

In fact, so far the only 'special' thing about large binary data in DB was the way of moving those data to DB - SqlRaw and no SqlExp.

Mirek

Subject: Re: MSSQL binary data
Posted by [tojocky](#) on Tue, 18 Aug 2009 14:18:41 GMT
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Can anybody make a simple example how to insert and select binary data from table?
I'm interesting in Oracle, Postgres and sqlite.
Sorry for my incoptence.
Thanks in advance.
Ion Lupascu.

Add:

I found that it can add as string in the folowing format:

```
INSERT INTO Image
(ID, Subject, Body)
VALUES (1, 'some subject'
, 'C9CBBBCCCEB9C8CABCCCCEB9C9CBBB') //Oracle format
//, 0xC9CBBBCCCEB9C8CABCCCCEB9C9CBBB) //SQL Server format
//, x'C9CBBBCCCEB9C8CABCCCCEB9C9CBBB') // MySQL format
```

WHERE C9CBBBCCCEB9C8CABCCCCEB9C9CBBB is binary data.

luzr wrote on Sun, 23 November 2008 23:28 captainc wrote on Sun, 23 November 2008 14:55 Those are good benefits. I'm interested, what kind of database do you use for binary data? What kind of settings do you set on the database? What is the schema like?

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Mirek

Subject: Re: MSSQL binary data
Posted by [mirek](#) on Fri, 21 Aug 2009 12:18:45 GMT
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tojocky wrote on Tue, 18 August 2009 10:18Can anybody make a simple example how to insert and select binary data from table?
I'm interesting in Oracle, Postgres and sqlite.

Except for oracle, you just place SqlBinary into your insert

```
SQL * Insert(IMAGE)(ID, id)(BODY, SqlBinary(data));
```

As for Oracle, this works too, but is hindered by oracle maximum statement length limit, which is ~32000 - means you can store only about 15KB.

Another option is to use SqlRaw, but in that case you cannot use SqlExp:

```
SQL.Execute("insert IMAGE(ID, BODY) values (?, ?)", id, SqlRaw(data));
```

This should work for all dbs... Usually, it is also more effective, but at the same time less convenient

Mirek