Subject: Question about SQL....
Posted by mdelfede on Mon, 11 Oct 2010 19:08:27 GMT
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I'm totally new to sql, so maybe it's a dumb question.
I've a database with email as a primary key, I need to find if there's an entry with this email; if is there, update records, otherwise append them.
Here my (ugly) function :

```
bool ProtectDB::Set(VectorMap<String, Value> const &data)
{
 String eMail = data.Get("EMAIL");

 SQL * Select(SqlAll()).From(USERS).Where(EMAIL == eMail);
 if(SQL.Fetch())
 {
  SQL * Update(USERS)
   (NAME   , data.Get("NAME"))
   (ADDRESS  , data.Get("ADDRESS"))
   (COUNTRY  , data.Get("COUNTRY"))
   (ZIP   , data.Get("ZIP"))
   (PHONE   , data.Get("PHONE"))
   (FAX   , data.Get("FAX"))
   (CELL   , data.Get("CELL"))
   (LICENSES  , data.Get("LICENSES"))
   (EXPIRATION  , data.Get("EXPIRATION"))
   (ACTIVATIONKEY , data.Get("ACTIVATIONKEY"))
   (ACTIVATIONSENT , data.Get("ACTIVATIONSENT"))
   (ACTIVATED  , data.Get("ACTIVATED"))
   .Where(EMAIL == eMail);
 }
 else
 {
  SQL * Insert(USERS)
   (EMAIL   , eMail)
   (NAME   , data.Get("NAME"))
   (ADDRESS  , data.Get("ADDRESS"))
   (COUNTRY  , data.Get("COUNTRY"))
   (ZIP   , data.Get("ZIP"))
   (PHONE   , data.Get("PHONE"))
   (FAX   , data.Get("FAX"))
   (CELL   , data.Get("CELL"))
   (LICENSES  , data.Get("LICENSES"))
   (EXPIRATION  , data.Get("EXPIRATION"))
   (ACTIVATIONKEY , data.Get("ACTIVATIONKEY"))
   (ACTIVATIONSENT , data.Get("ACTIVATIONSENT"))
   (ACTIVATED  , data.Get("ACTIVATED"))
```

```
  ;
 }
}
```

Purpose is clear enough... data is passed in with a VectorMap.

Is there a "cleaner" way to do it ? maybe without repeating so many times the record names ?

Ciao

Max

Subject: Re: Question about SQL....
Posted by unodgs on Mon, 11 Oct 2010 21:32:32 GMT
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Try this:

```
struct MyFields
{
 VectorMap<String, Value> data;
 SqlId t;

 MyFields(const SqlId& table, const VectorMap<String, Value>& map)
 {
  data <<= map;
  t = table;
 }

 void FieldLayout(FieldOperator& f)
 {
  f.Table(~t);
  f
   (NAME   , data.Get("NAME"))
   (ADDRESS  , data.Get("ADDRESS"))
   (COUNTRY  , data.Get("COUNTRY"))
   (ZIP   , data.Get("ZIP"))
   (PHONE   , data.Get("PHONE"))
   (FAX   , data.Get("FAX"))
   (CELL   , data.Get("CELL"))
   (LICENSES  , data.Get("LICENSES"))
   (EXPIRATION  , data.Get("EXPIRATION"))
   (ACTIVATIONKEY , data.Get("ACTIVATIONKEY"))
   (ACTIVATIONSENT , data.Get("ACTIVATIONSENT"))
```

```
   (ACTIVATED  , data.Get("ACTIVATED"));
 }

 operator Fields() { return callback(this, &MyFields::FieldLayout); }
};

String eMail = data.Get("EMAIL");

SQL * Select(SqlAll()).From(USERS).Where(EMAIL == eMail);

MyFields fields(USERS, data);

if(SQL.Fetch())
{
 SQL * Update(fields).Where(EMAIL == eMail);
}
else
{
 SQL * Insert(fields)
  (EMAIL, eMail);
}
```

Subject: Re: Question about SQL....
Posted by mdelfede on Tue, 12 Oct 2010 10:58:04 GMT
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Thank you Uno, I'll try it asap

Max