openCRX Installation Guide for MSSQL-2000+

Version 1.6.0

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openCRX Installation Guide for Microsoft SQL Server 2000+: Version 1.6.0

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Chapter 1. About this Book

This book describes how to setup an *openCRX* database instance for *MS SQL2000*

Who this book is for

The intended audience are *openCRX* database administrators.

What do you need to understand this book

This book describes the installation of *openCRX* for *MS SQL2000*. The book assumes that you are familiar with *MS SQL2000* installation and configuration.

Chapter 2. Prerequisites

As a first step you must download the following software packages:

- Download **openCRX for** *MS SQL2000* from *here (http://sourceforge.net/project/showfiles.php?group_id=95219)* (e.g. *opencrx-1.6.0-core.MySQL-4.zip* or *opencrx-1.6.0-core.mysql-4.tar.gz*). The distribution contains the *MSSQL* scripts required to install the *openCRX* database.

- Download *MS SQL2000* **Database Server** from *here (http://www.microsoft.com/sql/downloads/default.mspx*

- Download the Jdbc driver **MSSQL Connector/J** from *Here (http://www.microsoft.com/downloads/details.aspx?FamilyID=9f1874b6-f8e1-4bd6-947c-0fc5bf05bf71&DisplayLang=en).*

  Please ensure that you install the **correct JDBC driver** (i.e. matching JDK, *MSSQL* version, etc.) and **one JDBC driver only!** Ignoring this wisdom leads to problems as the connection to the database will fail. As a next step you must install *MSSQL*. The *MSSQL* documentation explains in detail how to install the database. This document assumes that you use **Enterprise Manager** and the **SQL Query Analyzer** for database administration. The JDBC driver is required for the application server installation.

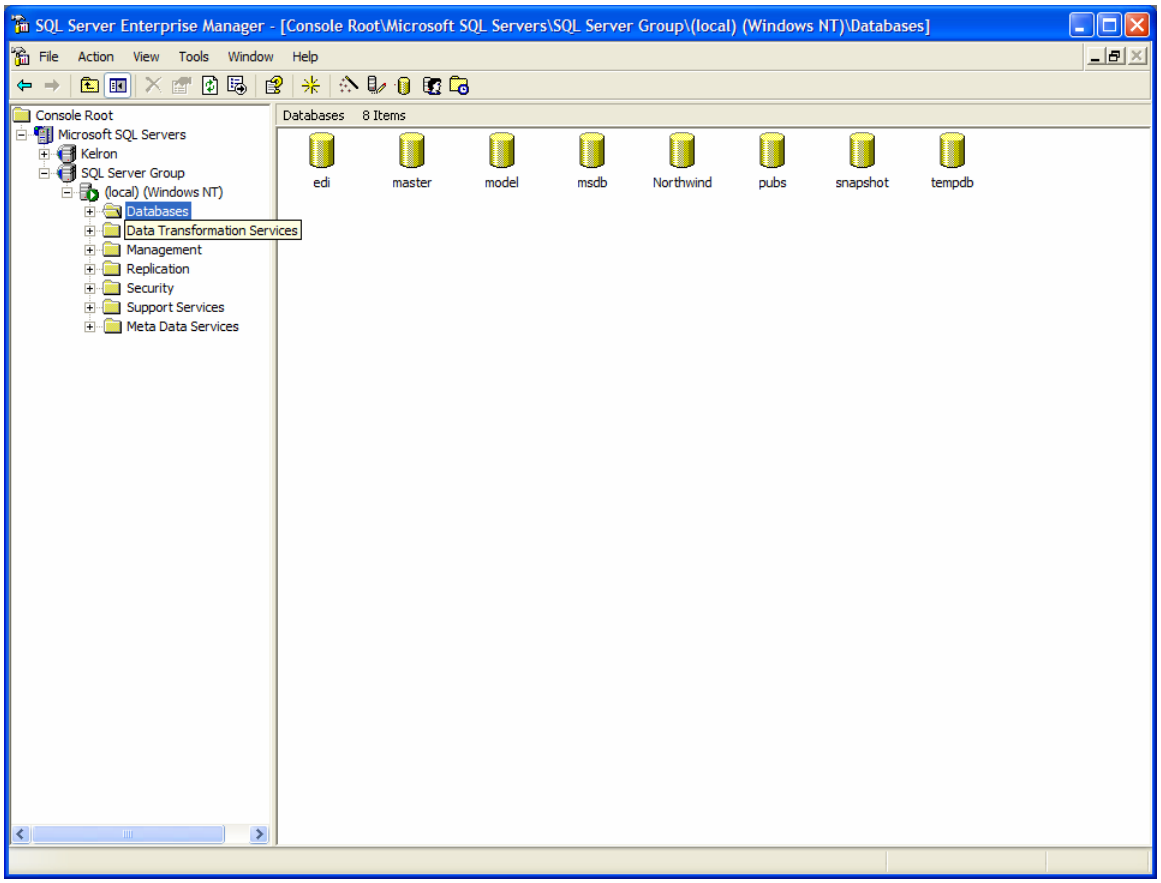
Chapter 3. Upgrading from previous versions

If you already have *MSSQL* for *openCRX* installed, upgrade the database as explained below. You can then skip the rest of this document. The *openCRX* distributions provide an SQL script of the form *upgrade-from-<version from>-to-<versionto>.sql*. E.g. If you have installed *openCRX* 1.5.0 and you want to upgrade to version 1.6.0 you have to run the script *upgrade-from-1.5.0-to-1.6.0.sql* on your database instance.

Chapter 4. Create the database

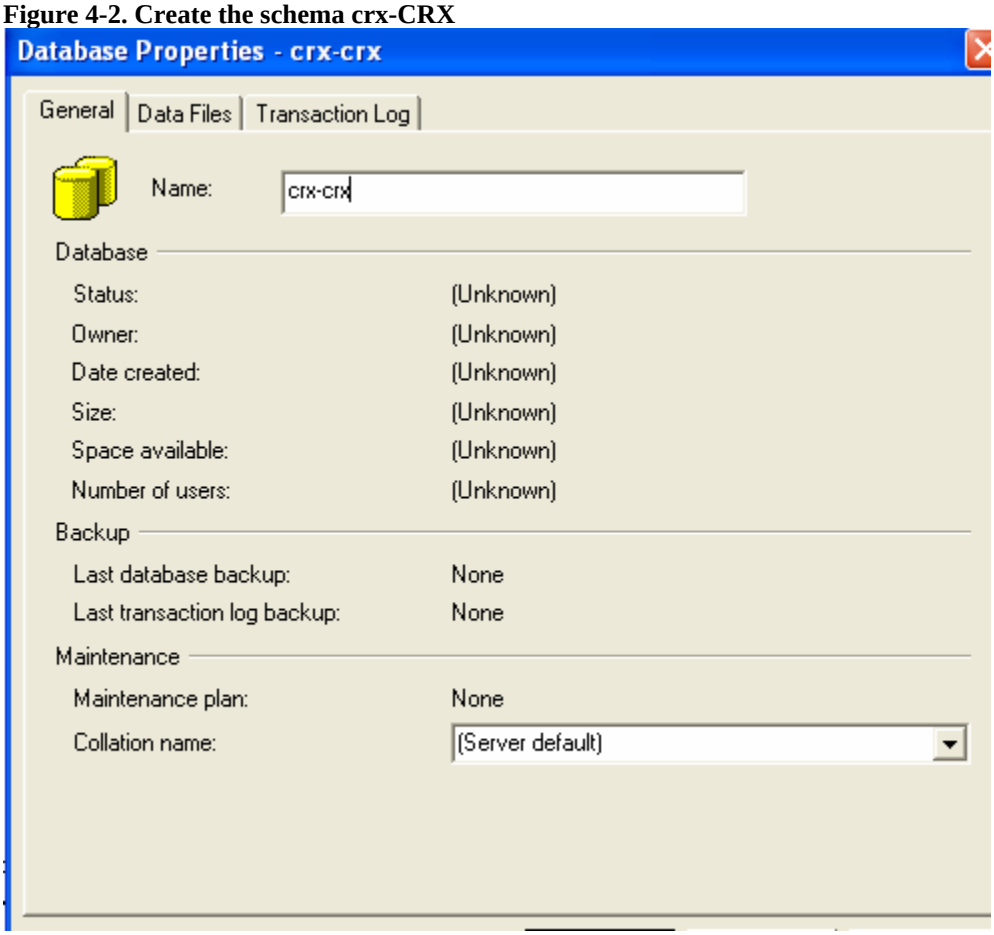
As a first step you must create the database. This can be done with **Enterprise Manager**. Start the **Enterprise Manager**. Right-click *Databases* folder and Select *Create New Databases* from the popup menu as shown in *Figure 4-1*.

Figure 4-1. Create a new database schema



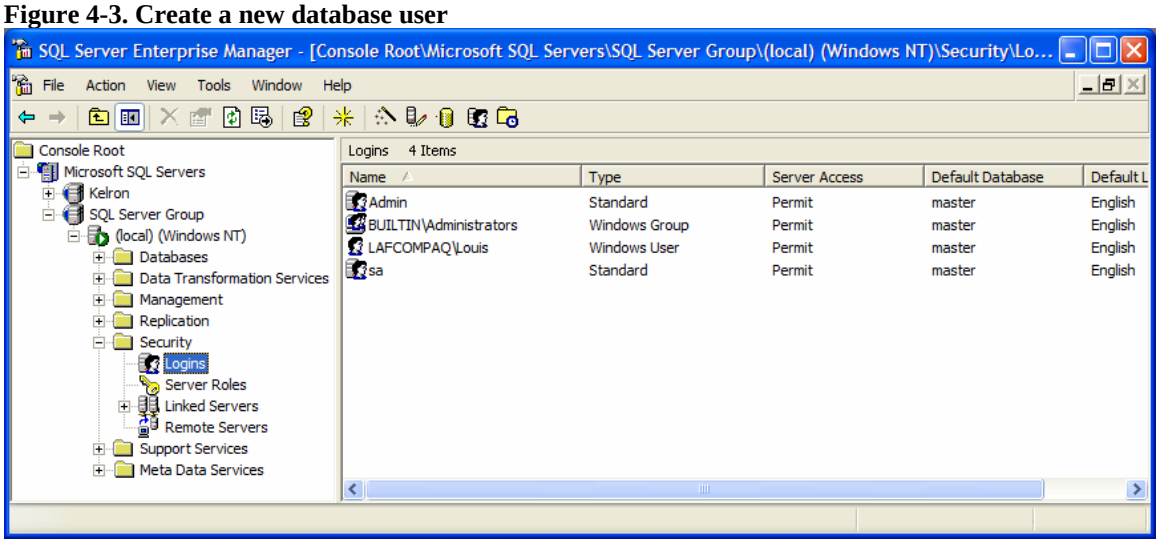
Enter *crx-CRX* as database name as shown in *Figure 4-2* and click *OK*.

Figure 4-2. Create the schema crx-CRX



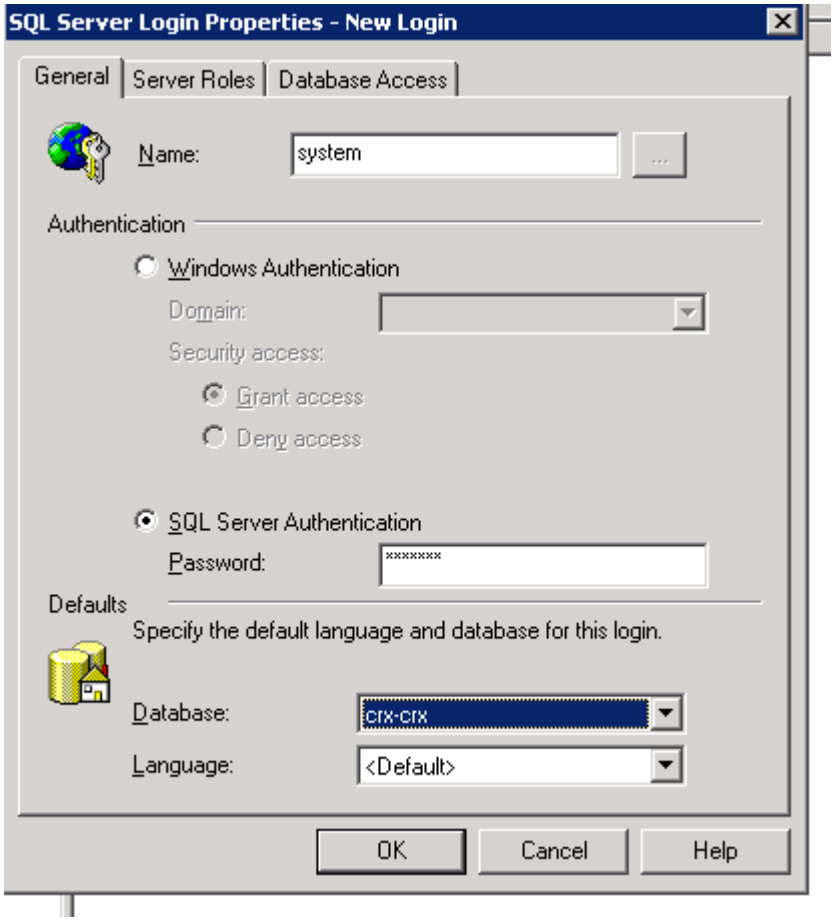
Next you must create a database user and grant this user access to the newly created database. Go to the Security folder, slick Logins, Right-Click and then *Add new User* from the popup menu as shown in *Figure 4-3*.

Figure 4-3. Create a new database user



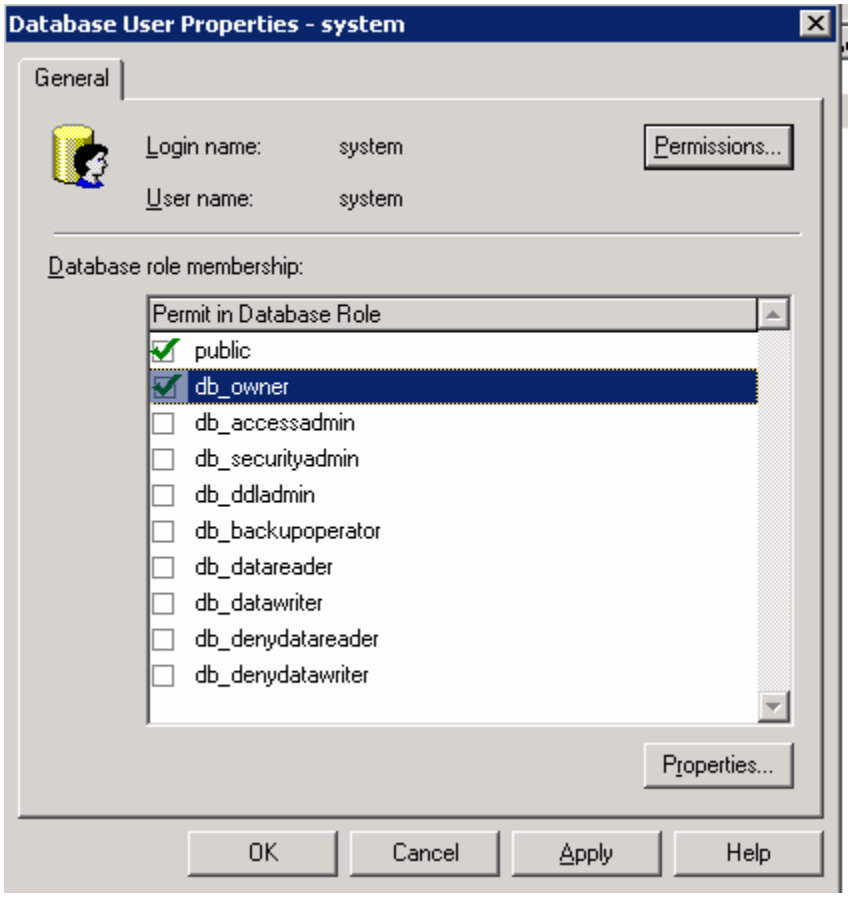
Complete the *Login Information* and *Additional information*. We assume that you created the user ***system*** with SQL authentication, not Windows; and set the password to ***manager***.

Figure 4-4. Assign SQL authentication



Next you must grant the user *system* access to the database *crx-CRX*. Select the schema *crx-CRX*, select *users*, and right-click the user, *system*, selecting Properties. When the following popup window appears ,assign the additional role of **db_owner** to *system*, as shown in *Figure 4-4*.

Figure 4-5. Grant permissions

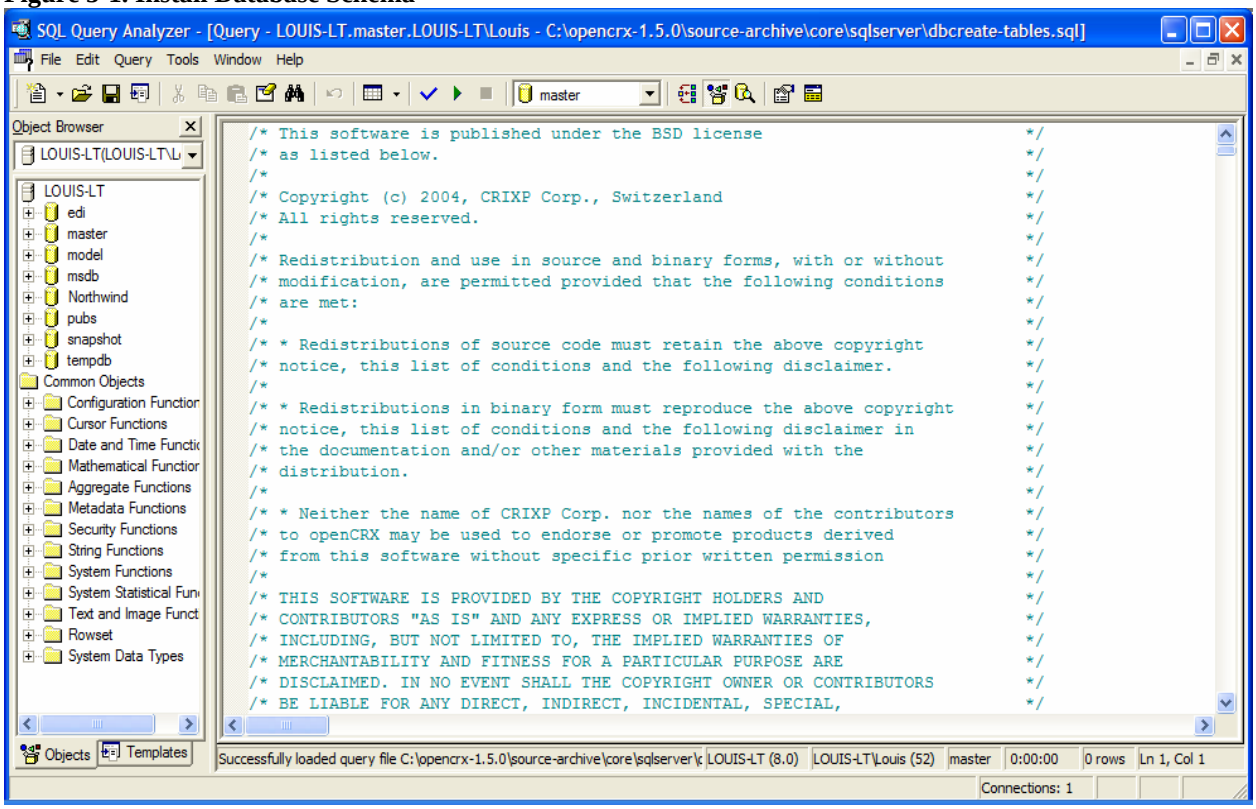


You are now done creating the database.

Chapter 5. Install Database Schema

After creating the schema you are now ready to install the *openCRX* database schema. Start the *MSSQL Query Analyzer*. Be **very carefull** to select the schema *crx-CRX*. Browse your *filesystem* for the sql script***, dbcreate-tables.sql*** and execute it as shown in *Figure 5-1*.

Figure 5-1. Install Database Schema



Note: This script will display a number of warnings, such as this:

> **Warning: The table 'kernel_QuotePosition' has been created but its maximum row size (11185) exceeds the maximum number of bytes per row (8060). INSERT or UPDATE of a row in this table will fail if the resulting row length exceeds 8060 bytes**.
>
> Here is information from Microsoft http://support.microsoft.com/kb/260418/en-us
>
> The table creation succeeds and data can be inserted without problems. What did this error message mean?
>
> A: This error message indicates that you have variable length columns in your table (such as nvarchar or varbinary) and that the total maximum length of all the columns adds up to more than 8060 bytes. You can still insert rows into the table provided that the total length of the data in each row does not exceed 8060 bytes. However, if the data does exceed 8060 bytes, the insertion fails with the following error message:
>
> ***Server: Msg 511, Level 16, State 1, Line 5***
> ***Cannot create a row of size <rowlength> which is greater than the allowable maximum of 8060.***
> ***The statement has been terminated.***

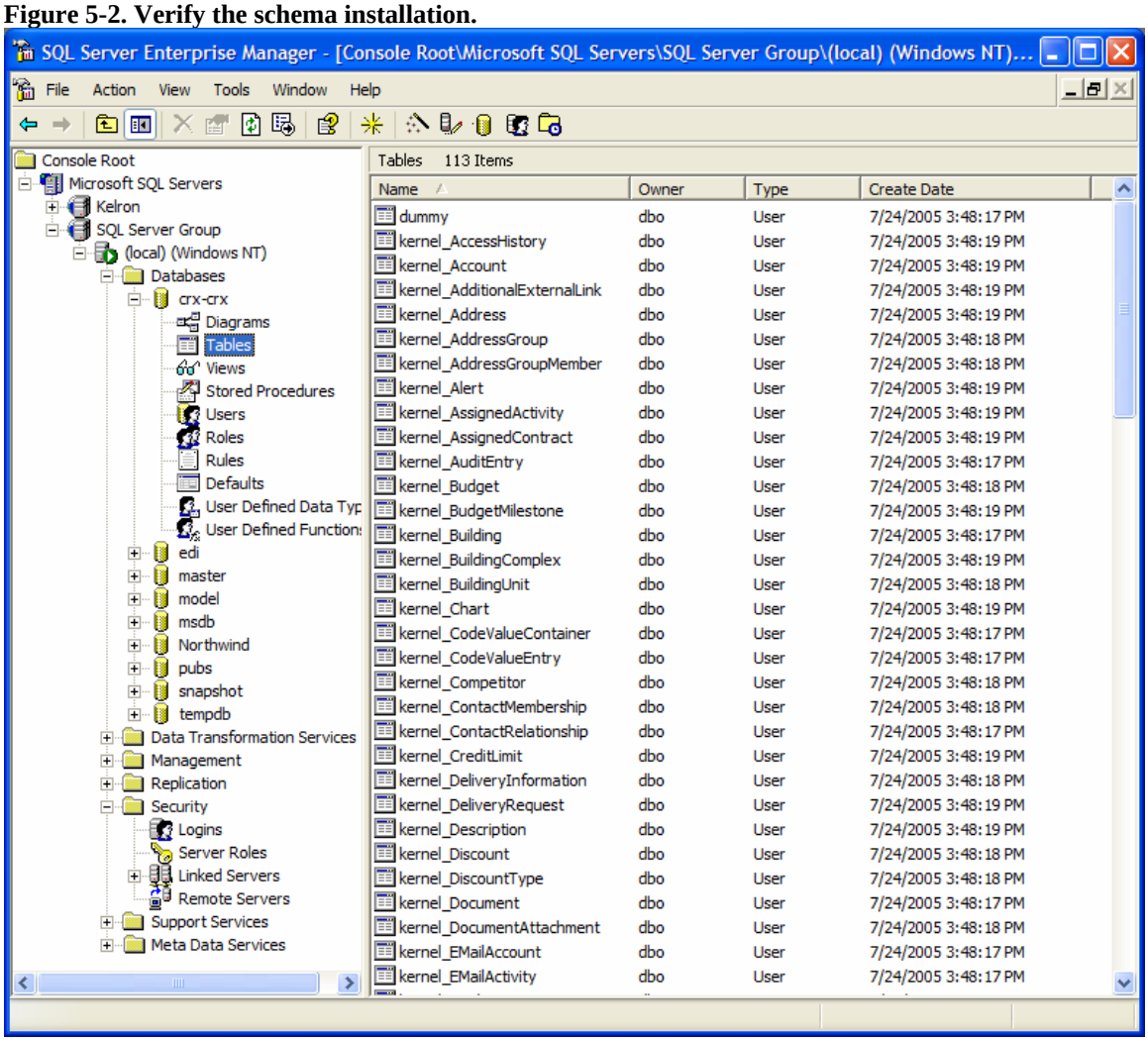
Similarly, load and exec the file *dbcreate-indexes.sql*,.

Note: This script will display a number of warnings, such as this:

> ***Warning! The maximum key length is 900 bytes. The index 'i_k_REF_c0_c6' has maximum length of 964 bytes. For some combination of large values, the insert/update operation will fail.***

followed by ***dbcreate-views.sql*** This last script should run without errors. After execution the pane *Schemata* should list all created tables as shown in *Figure 5-2*.

Figure 5-2. Verify the schema installation.



Chapter 6. Next Steps

If you have completed successfully the database installation you are ready to use the *openCRX* database. The application server installation guides explain how to connect the application server to the *openCRX* database instance.

Appendix A. Appendix

Bibliography

[01] *openCRX - the leading open source CRM solution*, opencrx.org. *http://www.opencrx.org*

[02] *openMDX - The leading open source MDA platform*, openmdx.org. *http://www.openmdx.org*