

How to create an openMAXIMS database

This document describes how to create an openMAXIMS database and the associated reference data in Microsoft SQL Server. The examples given in this document use the SQL Server Management Studio in SQL Server 2008.

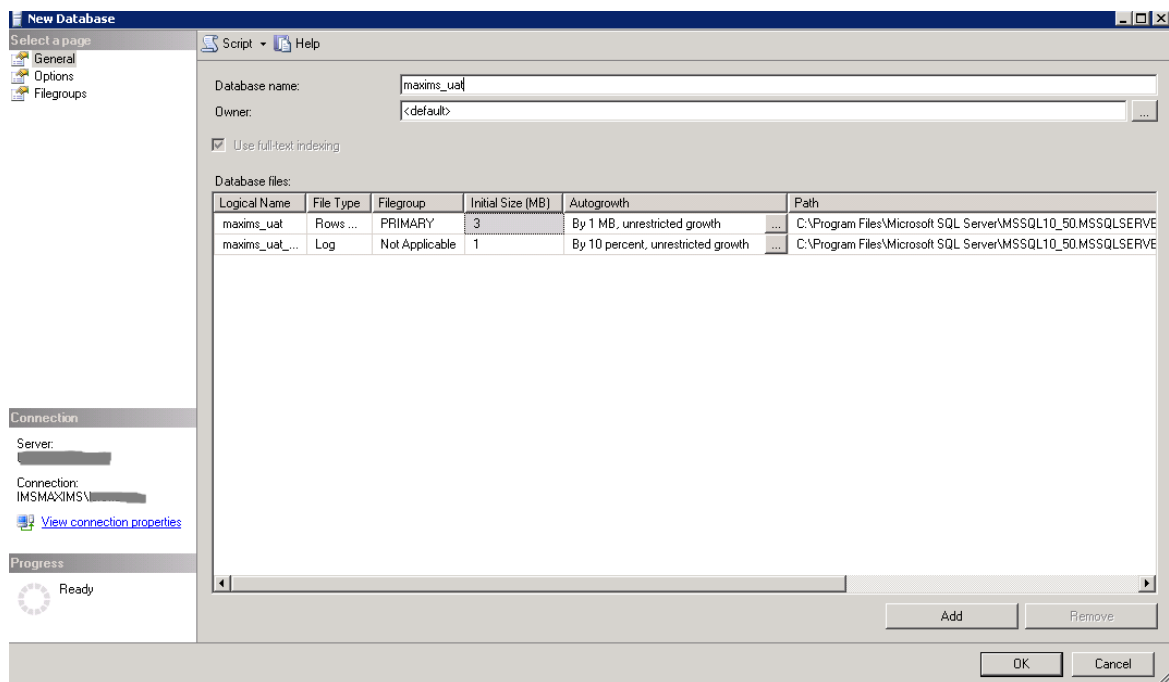
openMAXIMS uses Hibernate as its database independence layer and therefore a proficient database administrator should be able to modify the SQL Server database and reference data scripts provided to create equivalent databases in Oracle, MySQL, etc.

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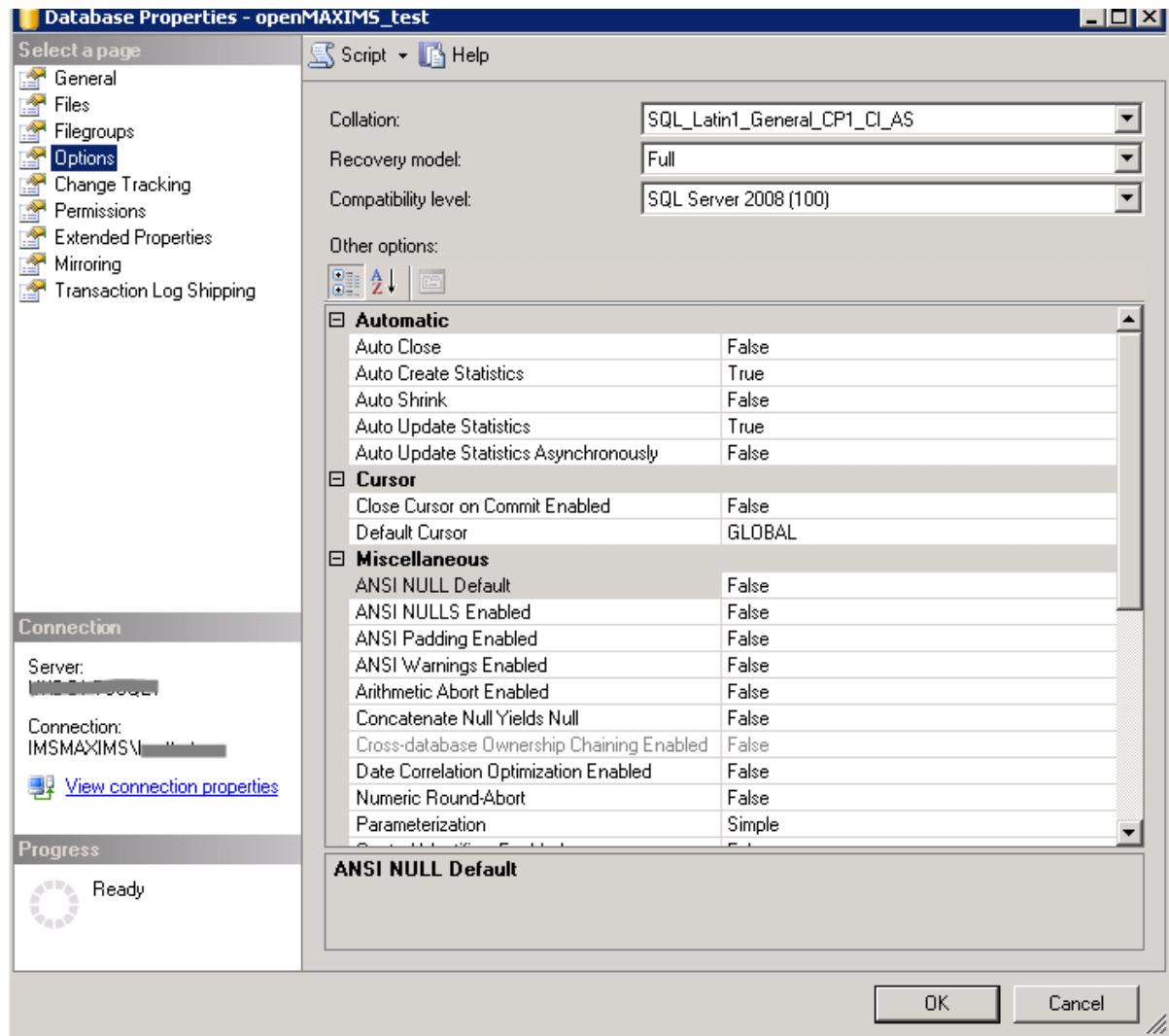
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Creating the openMAXIMS database in SQL Server

1. Open SQL Server Management Studio
2. In Object Explorer, connect to an instance of the SQL Server Database Engine and then expand that instance
3. Right-click Databases, and then click New Database
4. In New Database, enter a database name, e.g. by convention the openMAXIMS naming standard uses the MAXIMS database names for UAT, Training, Production environment: maxims_uat, maxims_train, maxims_prod)



5. If needed, the default values of the primary data and transaction log files can be changed – in the Database files grid, click the appropriate cell and enter the new value
6. Change the collation of the database: Select the Options page and then select a collation from the list: SQL_Latin1_General_CP1_CI_AS
7. The Recovery model is recommended to be set to 'Full'



8. Click 'OK' at the bottom of the window to confirm

Creating the openMAXIMS domain user account, SQL Server user account and database role

Create domain user account

1. An administrator should set-up the Domain user account 'openMAXIMS_support' on the server level with the admin permission
2. Open SQL Server Management Studio
3. In Object Explorer, connect to an instance of the SQL Server Database Engine and then expand that instance
4. Open the Security folder
5. Right-click on the Logins folder and select New Login

6. Enter Login name : openMAXIMS_support
7. select 'Windows authentication'
8. In Default database : select maxims_uat

Login - New

Select a page: General, Server Roles, User Mapping, Securables, Status

Script Help

Login name: openMAXIMS_support Search...

☒ Windows authentication
☐ SQL Server authentication

Password:
Confirm password:
☐ Specify old password
Old password:

☒ Enforce password policy
☒ Enforce password expiration
☒ User must change password at next login

☐ Mapped to certificate
☐ Mapped to asymmetric key
☐ Map to Credential Add

Mapped Credentials

Credential	Provider
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Remove

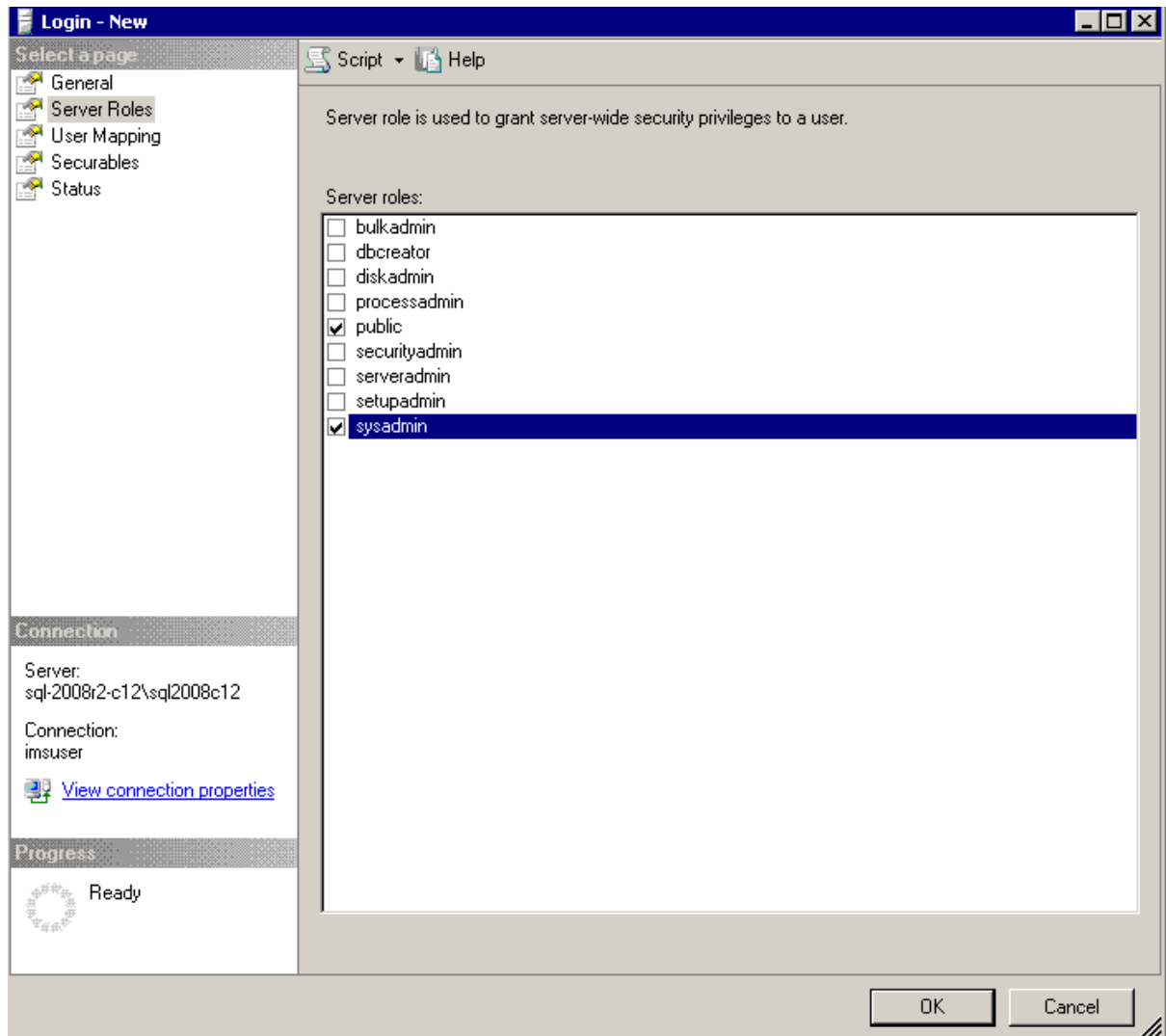
Default database: MAXIMS_UAT
Default language: <default>

OK Cancel

Connection
Server:
Connection: IMSMAXIMS\k...
[View connection properties](#)

Progress
Ready

9. Select the Server Roles page, and then select 'Public' , 'sysadmin'



10. Click 'OK' at the bottom of the window to confirm

Create SQL Server user account

1. Open SQL Server Management Studio
2. In Object Explorer, connect to an instance of the SQL Server Database Engine and then expand that instance
3. Open the Security folder
4. Right-click on the Logins folder and select New Login
5. Enter Login name: openmaxims
6. Select 'SQL Server Authentication', then enter the password
7. Un-check (un-select) 'Enforce password policy' and 'Enforce password to ensure that the password does not expire'

8. In Default database : select maxims_uat

Login Properties - openmaxims

Select a page: General, Server Roles, User Mapping, Securables, Status

Script Help

Login name: openmaxims Search...

☐ Windows authentication

☒ SQL Server authentication

Password:

Confirm password:

☐ Specify old password

Old password:

☐ Enforce password policy

☐ Enforce password expiration

☐ User must change password at next login

☐ Mapped to certificate

☐ Mapped to asymmetric key

☐ Map to Credential

Mapped Credentials

Credential	Provider
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Add Remove

Default database: MAXIMS_UAT

Default language: English

OK Cancel

Connection

Server: [redacted]

Connection: IM\$MAXIMS [redacted]

[View connection properties](#)

Progress

Ready

9. Click 'OK' at the bottom of the window to confirm

10. From SQL Server Management Studio, expand the maxims_uat database that you have created

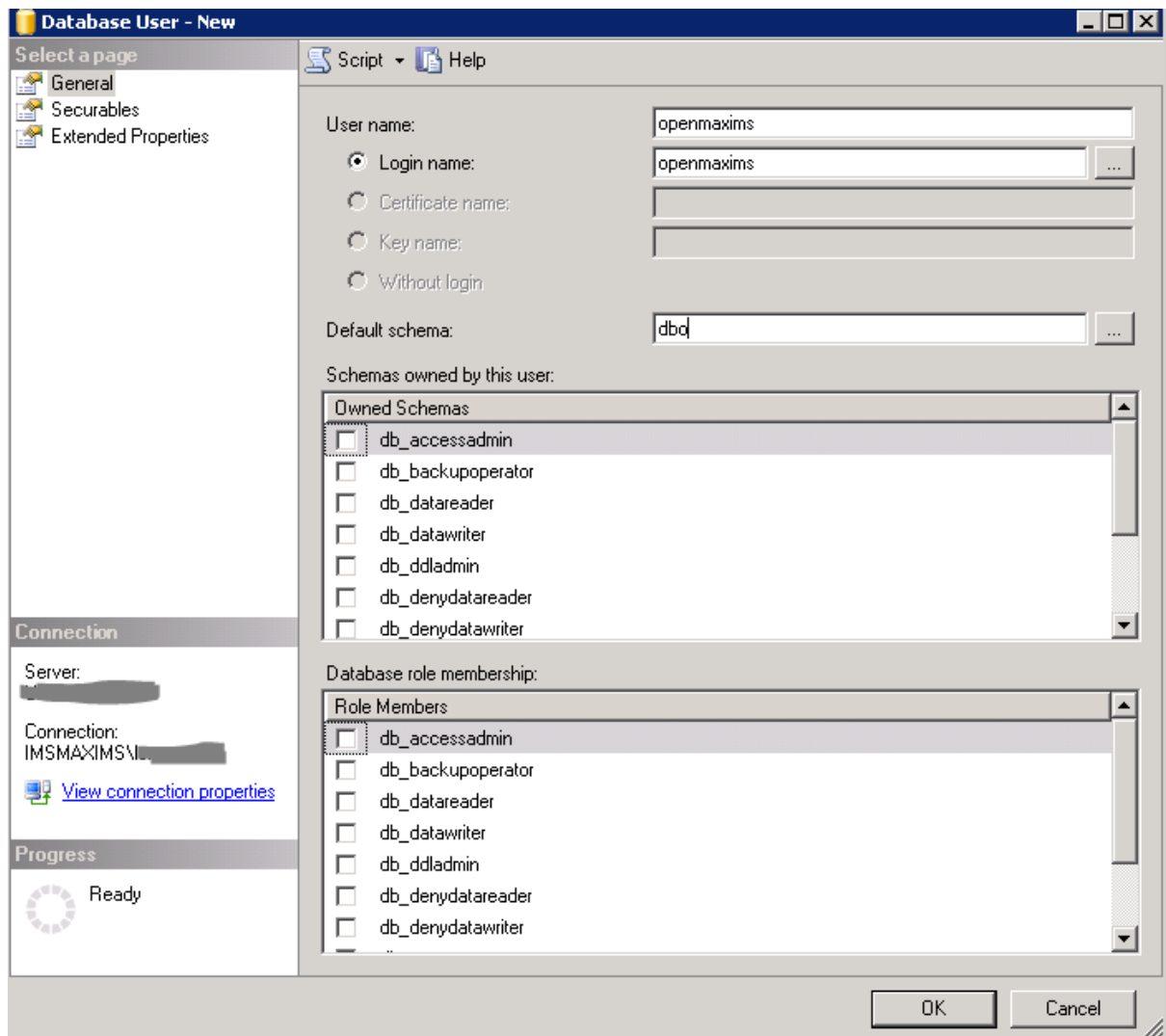
11. Open the Security folder

12. Right-click on the Users and select New user

13. Enter User name = openmaxims

14. Enter Login name = openmaxims (as it should be Windows authentication)

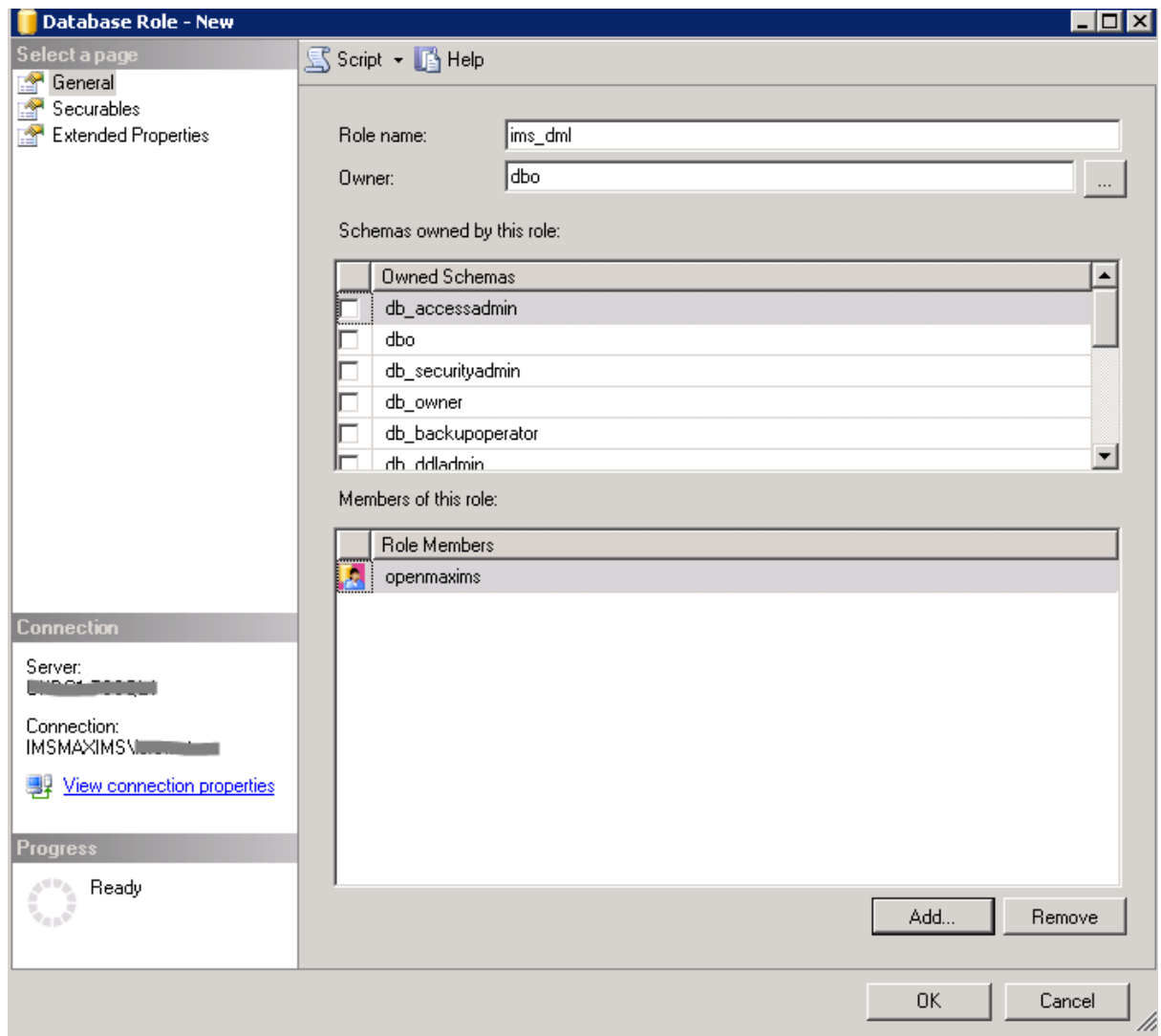
15. Enter Default schema = dbo



16. Click 'OK' at the bottom of the window to confirm

Create database role

1. Open SQL Server Management Studio
2. From SQL Server Management Studio, expand the maxims_uat database which you have created
3. Open the Security folder
4. Click on the 'Roles' and select 'New' then select 'New Database role'
5. Enter Role name = ims_dml
6. Enter Owner = dbo
7. In the Role Members window, select 'Add' and Enter = openmaxims



8. Click 'OK' at the bottom of the window to confirm

Create database objects for the openMAXIMS database

1. Download the following database objects creation script file from the openMAXIMS GitHub project:

DDL-scripts-ref147-openMAXIMS.sql
2. Open SQL Server Management Studio
3. In Object Explorer, connect to an instance of the SQL Server Database Engine and then expand that instance
4. Click on the target Database ((ie MAXIMS_UAT)
5. Open the "Query Window" and ensure the target database is selected for the Query Window (i.e. for MAXIMS_UAT , please select 'MAXIMS_UAT')

6. Open the DDL-scripts-ref147-openMAXIMS.sql file , copy the text and paste it in the Query Window
7. Click the Execute command to apply the script
There should be 1371 tables created
8. Check the results window for any errors

Insert the reference data for the openMAXIMS database

1. Download the following database objects creation script file from the openMAXIMS GitHub project:
2. Reference-Data-scripts-rel147-openMAXIMS
3. Open SQL Server Management Studio
4. In Object Explorer, connect to an instance of the SQL Server Database Engine and then expand that instance
5. Click on the target Database (i.e. MAXIMS_UAT)
6. Open the “Query Window” and ensure the target database is selected for the Query Window(i.e. for MAXIMS_UAT , please select ‘MAXIMS_UAT’)
7. Open the Reference-Data-scripts-rel147-openMAXIMS file , copy the text and paste it in the Query Window
8. Click the Execute command to apply the script
9. Check the results window for any errors.