



**University Of Wollongong**  
**CSCI321-JG1**

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**Technical Manual for Crystal Cockpit (cc)**

**The Power In your Hands**

# **User Manual**

## **Crystal Cockpit**

**University Of Wollongong**

**CSCI321-JG1**

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**Date:** 29-October-2013

## User Manual for Crystal Cockpit

### Revision Sheet

<b>Release No.</b>	<b>Date</b>	<b>Revision Description</b>
Rev. 0	15/05/2013	User's Manual Template and Checklist
Rev. 1	7/06/2013	User's Manual for week13 Autumn Session
Rev. 2	23/10/2013	Update user's Manual pictures
Rev.3	29/10/2013	Finalize and add more features.

## User Manual for Crystal Cockpit



### User's Manual Authorization Memorandum

I have carefully assessed the User's Manual for the Crystal Cockpit. This document has been completed in accordance with the requirements of the University of Wollongong, Computer Science, CSCI321.

#### MANAGEMENT CERTIFICATION - Please check the appropriate statement.

- The document is accepted.
- The document is accepted pending the changes noted.
- The document is not accepted.
- 

We fully accept the changes as needed improvements and authorize initiation of work to proceed. Based on our authority and judgment, the continued operation of this system is authorized.

**Nan Noon Noon**

Project Manager/Tester

**30/Oct/2013**

DATE

**Shan May Yew**

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**30/Oct/2013**

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# User Manual for Crystal Cockpit

## Contents

1	Introduction.....	1
2	User Access level.....	1
3	Login .....	2
4	Database Three.....	2
5	File Menu .....	2
5.1	Logout .....	2
5.2	Welcome / History .....	3
5.2.1	Select scrip from history table .....	3
5.2.2	Save script from GUI to local drive / temp drive.....	3
5.2.3	Load script from .sql or text file .....	4
5.3	Exit.....	5
6	Create Menu.....	5
6.1	Create Table .....	5
6.1.1	Create Table with Primary Key .....	6
6.1.2	Create Table with Foreign Key .....	7
6.1.3	Create Table with Check Constraint .....	8
6.2	Create Index .....	9
6.2.1	Create Unique Index .....	9
6.2.2	Create Unique Index with Multiple Columns.....	10
6.2.3	Create Index with Multiple Columns.....	11
6.3	Create View .....	12
6.4	Create Sequence.....	13
6.5	Create Tablespace .....	14
6.6	Create Materialize View .....	15
6.7	Create Directory.....	16
7	Delete Menu.....	17
7.1	Delete Table .....	17
7.2	Delete Index .....	18
7.3	Delete View .....	19
7.4	Delete Sequence.....	20
7.5	Delete Tablespace .....	20
7.6	Delete Materialize View .....	21
7.7	Delete Directory.....	22
8	Defragmentation Menu .....	22
8.1	Defragmentation Database.....	23
8.2	Defragmentation Tablespace .....	23
8.3	Defragmentation Table .....	24
9	Migration.....	25
9.1	Exp/Imp Schema.....	25
9.1.1	Export Schema from Database.....	25
9.1.2	Import Schema to Database .....	26
9.2	Exp/Imp Table .....	28
9.2.1	Export Table from Database .....	28

## User Manual for Crystal Cockpit

9.2.2	Import Table to Database.....	29
9.3	Exp/Imp Tablespace.....	31
9.3.1	Export Tablespace from Database .....	31
9.3.2	Import Tablespace to Database .....	32
9.4	Exp/Imp Database .....	34
9.4.1	Export Database .....	34
9.4.2	Import Database .....	35
9.5	Migration to MySQL .....	36
9.5.1	Export table from Oracle .....	36
9.5.2	Import Table to MySQL .....	37
10	User Control Menu .....	38
10.1	Delete User.....	38
10.2	Create User.....	39
10.3	Assign Role to User .....	40
10.3.1	Create Role.....	40
10.3.2	Delete Role.....	41
10.3.3	Set Role .....	42
10.3.4	Alter Role/User .....	42
10.4	Grant Privileges .....	43
10.5	Manage Password .....	44
11	Help.....	45
11.1	Online Docs and Support.....	45
11.2	Check for Update .....	45
11.3	About.....	45

## **1 Introduction**

The Crystal Cockpit will provide a user-friendly interface and it will allow the user to directly create, delete, migrate and defragment on logical data objects, tablespaces, and persistent storage devices using click, move and point operations. This document describes the system user manual.

## **2 User Access level**

Crystal Cockpit provide different user level allow administrator to set the user level.

Main user levels are:

- Administrator level
- Creation data objects level
- Delectation data objects level, and so on.

### 3 Login

This system will allow user to login their database with user name and password.

Refer to Figure



Figure 1: Login

### 4 Database Three

This feature show that what kind of data objects created in database. User can view tablespaces, Tables, Views, Indexes and Materialize Views by click on folder itself. Refer to Figure 2.

### 5 File Menu

Under this menu you can access:

- Logout
- Welcome/history and
- Exit.

#### 5.1 *Logout*

This feature allow user to logout from Crystal Cockpit.

**Step 1: Go to File -> Logout**

# User Manual for Crystal Cockpit

It will go back to login Screen (Figure 1)

## 5.2 *Welcome / History*

This feature allow user to

- Select script from history table
- Save script from GUI to local drive / temp drive
- Load script from .sql or text file.

### 5.2.1 Select scrip from history table

This function allow user to select previous script by selecting on table.

To select the previous script follow the step below and refer to Figure 2 -

**Step1:** Go to **File->Welcome**. Select **one script** that you want to see on text box

**Step2:** See **script** on text box and you can **edit** what you want

**Step3:** Click on ‘Run’ if you want to run script from text box. (Figure 2)

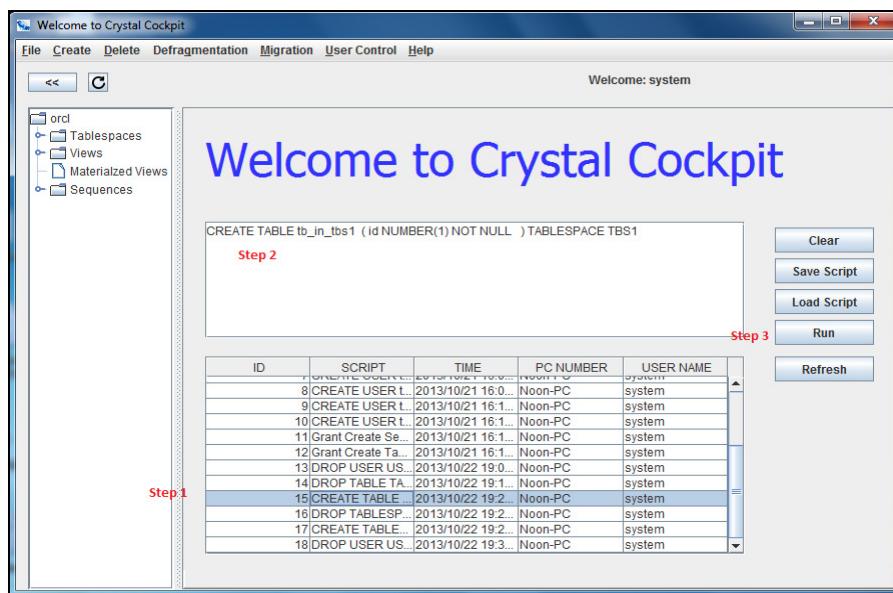


Figure 2: Script from Table

### 5.2.2 Save script from GUI to local drive / temp drive

This function allow user to save script from text box to local drive or temp drive.

To save the script, follow the step below and refer to Figure 3 -

## User Manual for Crystal Cockpit

**Step1:** Go to **File->Welcome**. Click on ‘Save Script’

**Step2:** Browse location where you would like to save and write the script name

**Step3:** Click on ‘Save Script’. (Figure3)

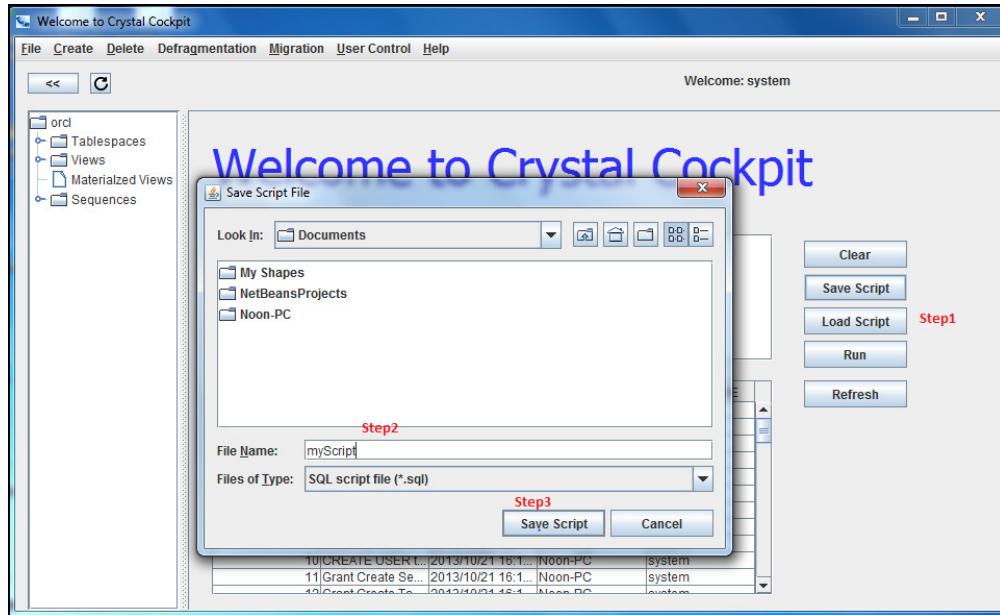


Figure 3: Save Script

### 5.2.3 Load script from .sql or text file

This function allow user to load script that save in hard drive/ local drive.

To load script from drive, follow the step below and refer to Figure 4-

**Step 1:** Go to **File->Welcome**. Click on ‘Load Script’

**Step 2:** Browse the Script file from drive

**Step 3:** Click on ‘Load Script’

# User Manual for Crystal Cockpit

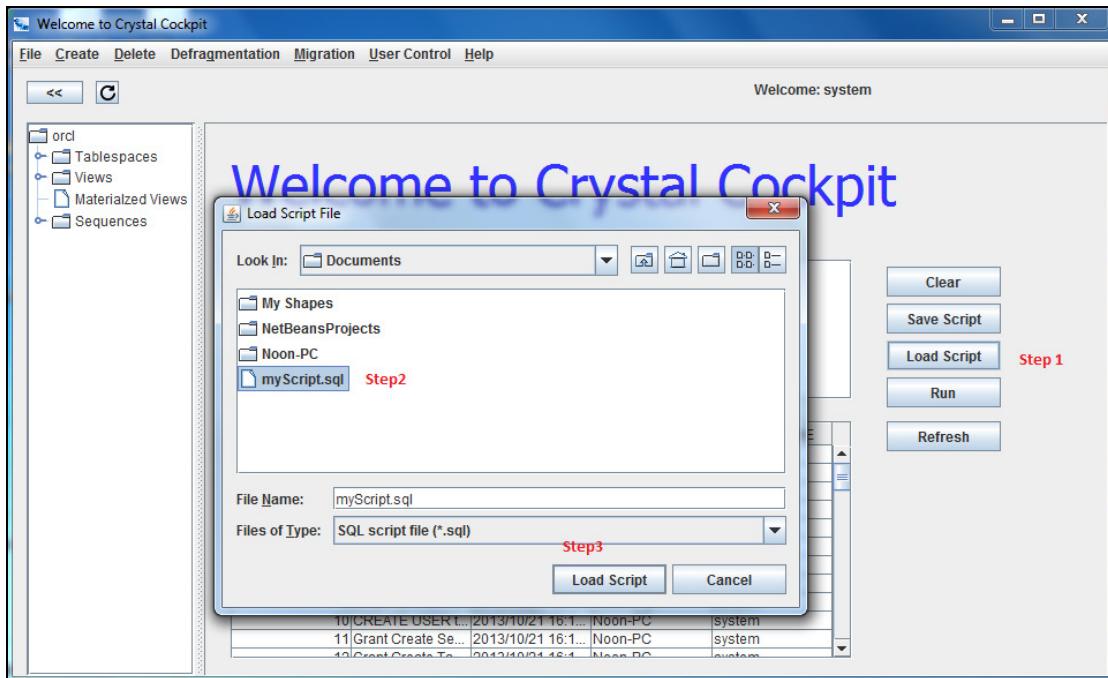


Figure 4 Load Script

## 5.3 Exit

This feature allow user to exit from Crystal Cockpit.

**Step1:** Go to File -> Exit

## 6 Create Menu

This menu provides to create data objects into database. The functions are:

- Create Table
- Create Index
- Create View
- Create Sequence
- Create Tablespace
- Create Materialize View and
- Create Directory.

### 6.1 Create Table

This feature allow user to create new table into database with multi options:

# User Manual for Crystal Cockpit

- Create table with Primary Key
- Create table with Foreign Key
- Create table with Check Constraint

## 6.1.1 Create Table with Primary Key

To create table with Primary Key follow step below and see Figure 5–

**Step1:** Go to **Create->Table**. Key in **Table name** in the text box

**Step2:** Choose **Tablespace** from combo box

**Step3:** Key in **column name** in the text box

**Step4:** Select ‘**PRIMARY KEY**’ from combo box

**Step5:** Select **Data Type**

**Step6:** Key in **size** of data type (option)

**Step7:** Click on ‘**Add row**’

**Step8:** If you want to see script click on ‘**Show Script**’ (option)

**Step9:** If you modify that script, click on ‘**Edit**’ (option)

**Step10:** Click ‘**Create**’ to create new table.

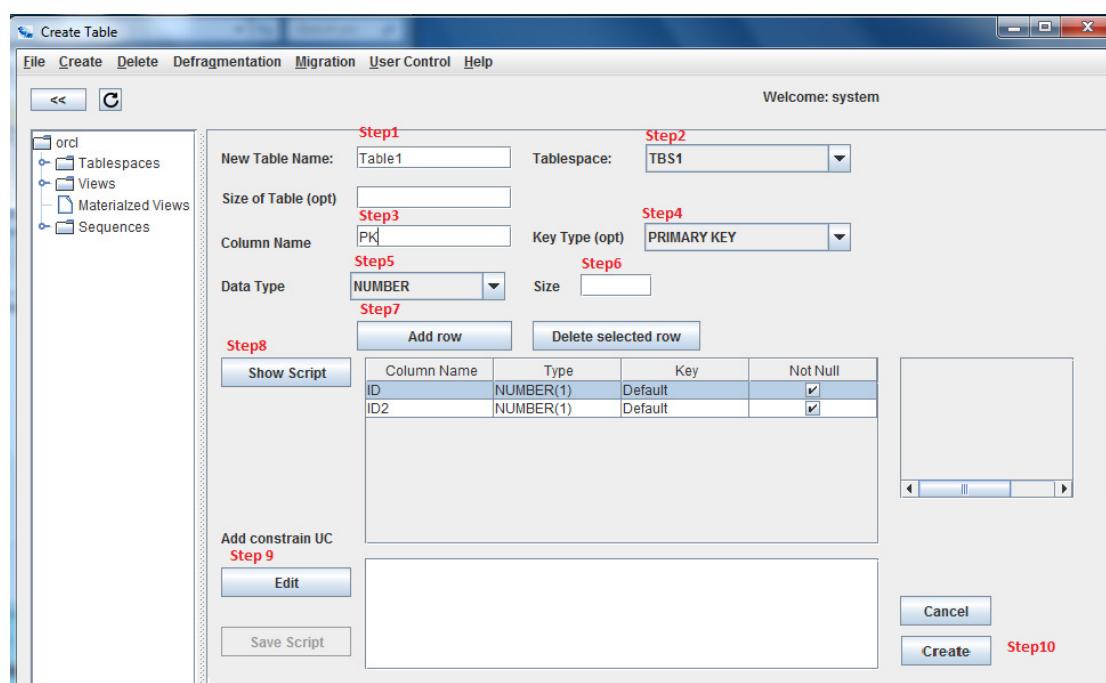


Figure 5: Create Table with Primary Key

### 6.1.2 Create Table with Foreign Key

To create table with Foreign Key follow step below and see Figure 6–

**Step1:** Go to **Create->Table**. Key in **Table name** in the text box

**Step2:** Choose **Tablespace** from combo box

**Step3:** Key in **column name** in the text box

**Step4:** Select **Data Type**

**Step5:** Key in **size** of data type (option)

**Step6:** Select ‘**FOREIGN KEY**’ from combo box

**Step7:** Select **Table** that want to link with new table

**Step8:** Select the **Column Name** of that table from step 7.

**Step9:** Click on ‘**Link**’.

**Step10:** If you would like to **edit constraint** click on ‘**Edit**’. (Option)

**Step11:** If you make edit on constraint click on ‘**Save**’ to update that constrain into script.

**Step12:** Click on ‘**Add row**’

**Step13:** If you want to see script click on ‘**Show Script**’ (option)

**Step14:** If you modify that script, click on ‘**Edit**’ (option)

**Step15:** Click ‘**Create**’ to create new table.

# User Manual for Crystal Cockpit

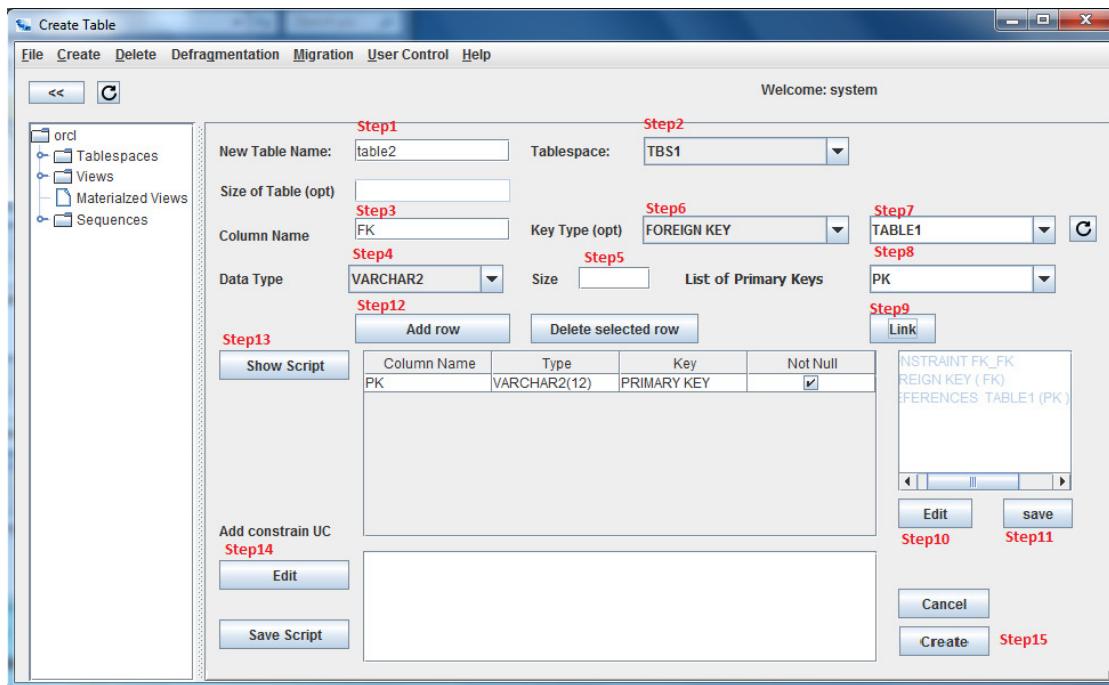


Figure 6: Create Table with Foreign Key

### 6.1.3 Create Table with Check Constraint

To create table with Check Constraint follow step below and see Figure 7–

**Step1:** Go to **Create->Table**. Key in **Table name** in the text box

**Step2:** Choose **Tablespace** from combo box

**Step3:** Key in **column name** in the text box

**Step4:** Select **Data Type**

**Step5:** Key in **size** of data type (option)

**Step6:** Select ‘**CHECK**’ from combo box

**Step7:** Edit condition that you would like to check.

**Step8:** Click on ‘**Save**’ to update that constrain into script.

**Step9:** Click on ‘**Add row**’

**Step10:** If you want to see script click on ‘**Show Script**’ (option)

**Step11:** If you modify that script, click on ‘**Edit**’ (option)

**Step12:** Click ‘**Create**’ to create new table.

# User Manual for Crystal Cockpit

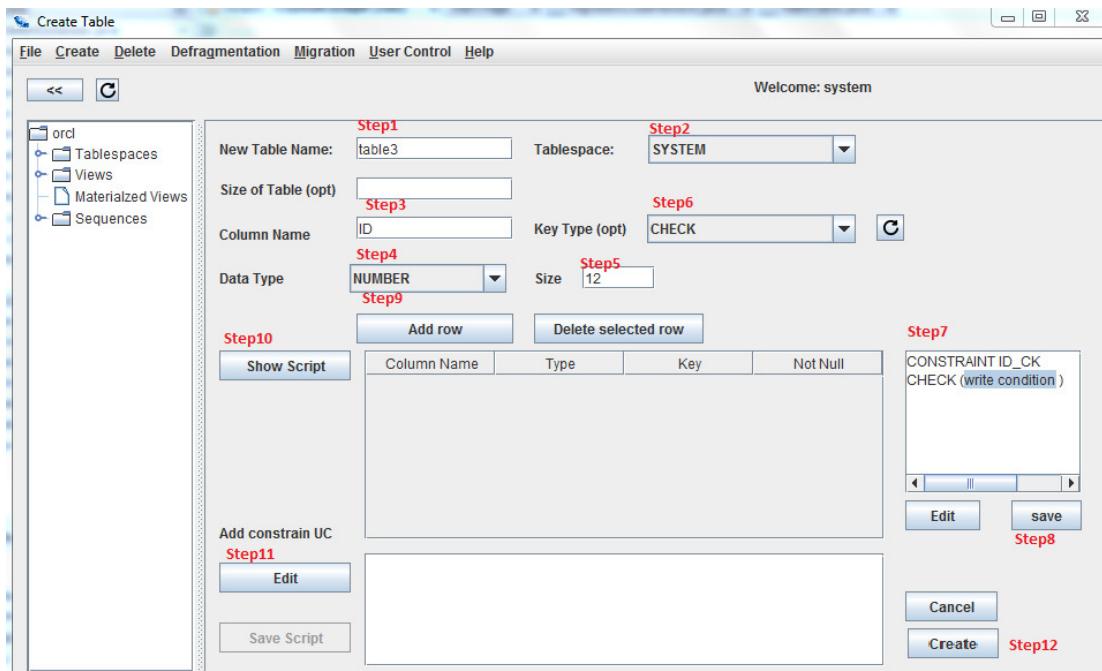


Figure 7: Create Table with Check constraint

## 6.2 **Create Index**

This function allow user to create new index with two options

- Create Unique Index
- Create Unique Index with Multiple Columns
- Create Index with Multiple Columns

### 6.2.1 **Create Unique Index**

To create unique index, follow step below and see Figure 8-

**Step1:** Go to **Create->Index**. Key in **Index name** in the text box

**Step2:** Click on ‘Unique’ check box

**Step3:** Choose **Table** from combo box

**Step4:** Choose **column name** of table that selected on step 3.

**Step5:** If you want to see script click on ‘Show Script’ (option)

**Step6:** If you modify that script, click on ‘Edit Script’ (option)

**Step7:** Click ‘Create’ to create new unique index.

# User Manual for Crystal Cockpit

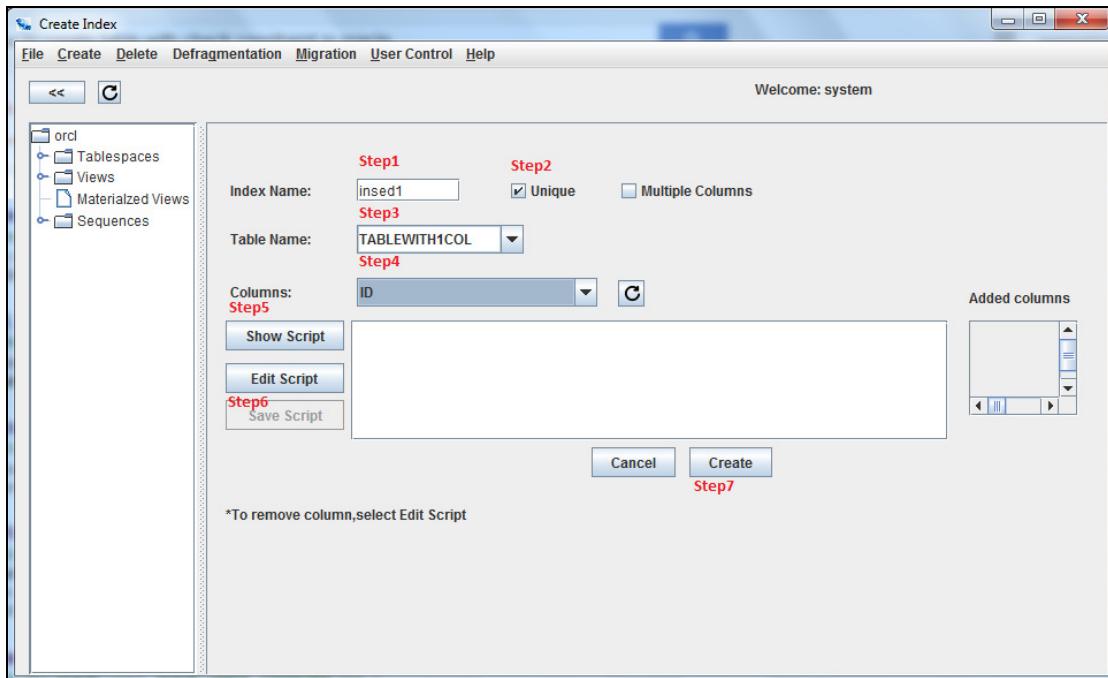


Figure 8: Create Unique Index

## 6.2.2 Create Unique Index with Multiple Columns

To create unique index with multiple columns, follow step below and see Figure 9-

**Step1:** Go to **Create->Index**. Key in **Index name** in the text box

**Step2:** Click on both '**Unique**' and '**Multiple Columns**' check box

**Step3:** Choose **Table** from combo box

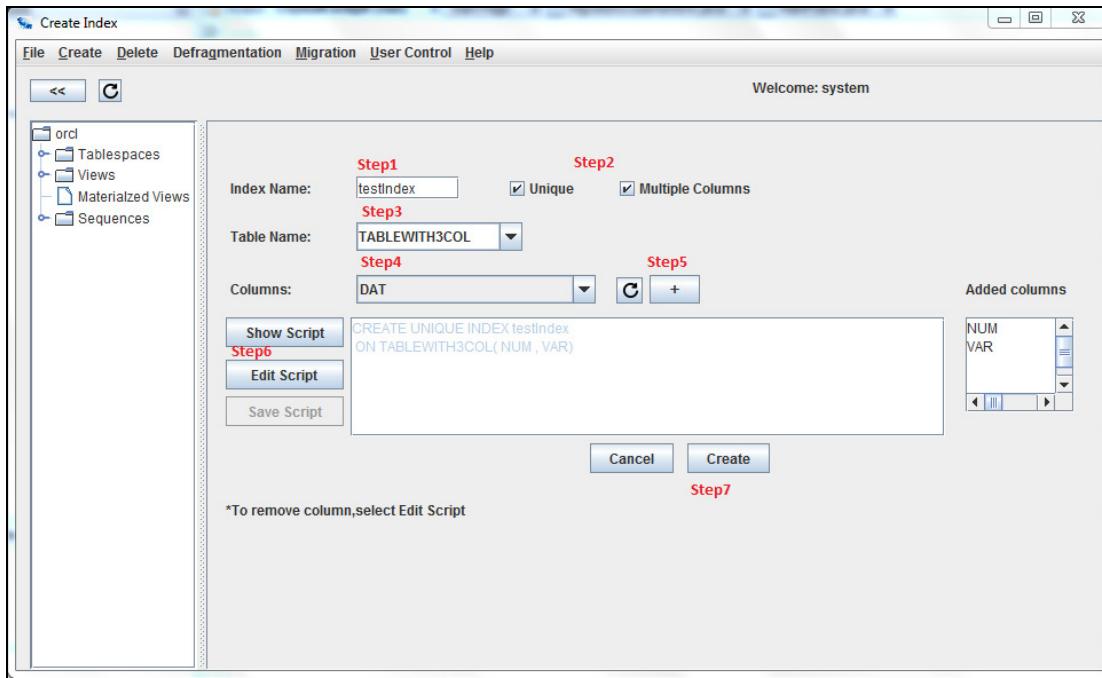
**Step4:** Choose **column name** of table that selected on step 3.

**Step5:** Click on '+', if you would like to **add more column** repeat Step4 and Step5.

**Step6:** If you modify that script, click on '**Edit Script**' (option)

**Step7:** Click '**Create**' to create new unique index.

# User Manual for Crystal Cockpit



**Figure 9: Create Unique Index with Multiple Columns**

### 6.2.3 Create Index with Multiple Columns

To create unique index with multiple columns, follow step below and see Figure 10-

**Step1:** Go to **Create->Index**. Key in **Index name** in the text box

**Step2:** Click on '**Multiple Columns**' check box

**Step3:** Choose **Table** from combo box

**Step4:** Choose **column name** of table that selected on step 3.

**Step5:** Click on '+'. If you would like to **add more columns** repeat Step4 and Step5.

**Step6:** If you modify that script, click on '**Edit Script**' (option)

**Step7:** Click '**Create**' to create new index.

# User Manual for Crystal Cockpit

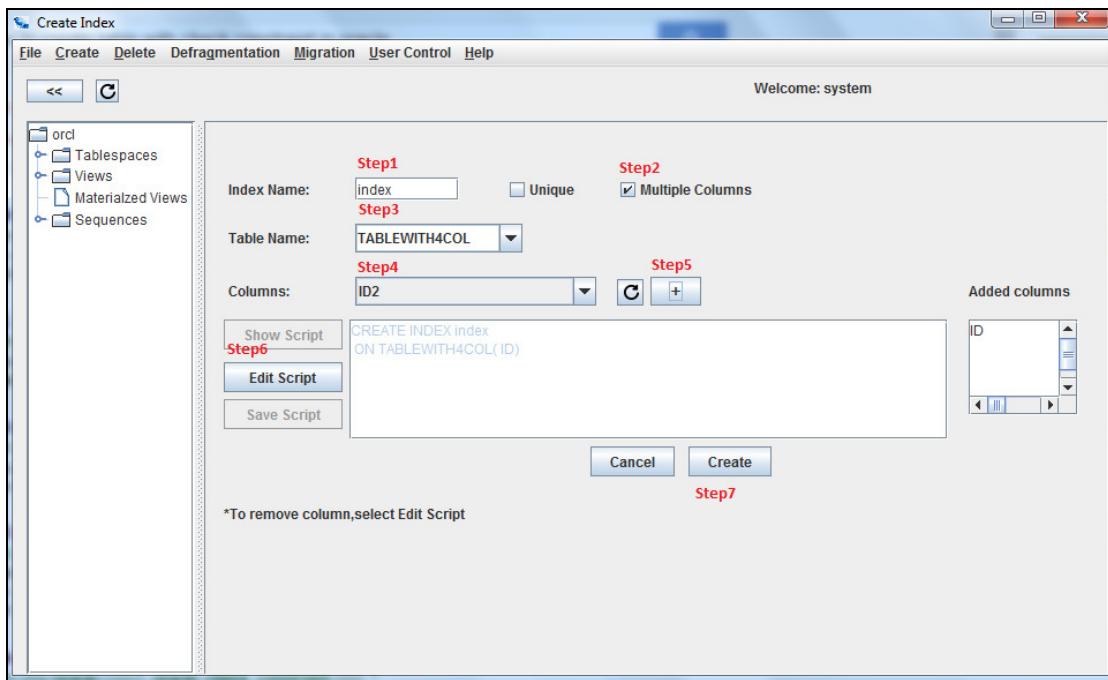


Figure 10: Create Index with Multiple Columns

## 6.3 Create View

This function allow user to create new view into database. To create new view, follow step below and refer to the Figure 11-

**Step1:** Go to **Create->View**. Key in **View name** in the text box

**Step2:** Choose **Table** from combo box

**Step3:** Choose **column name** of table that selected on step 2.

**Step4:** Key in new index's **column name** in the text box

**Step5:** Click on 'add' to add new column and text box on the right corner of the GUI frame show that selected table (from step2) have primary key or not. If you would like to **add more columns**, from **same table** repeat from Step3 to Step5. Or if you would like to **add more columns**, from **different table** repeat from Step2 to Step5.

**Step6:** If you want to see script click on '**Show Script**' (option)

**Step7:** If you modify that script, click on '**Edit Script**' (option)

**Step8:** Click '**Create**' to create new view.

# User Manual for Crystal Cockpit

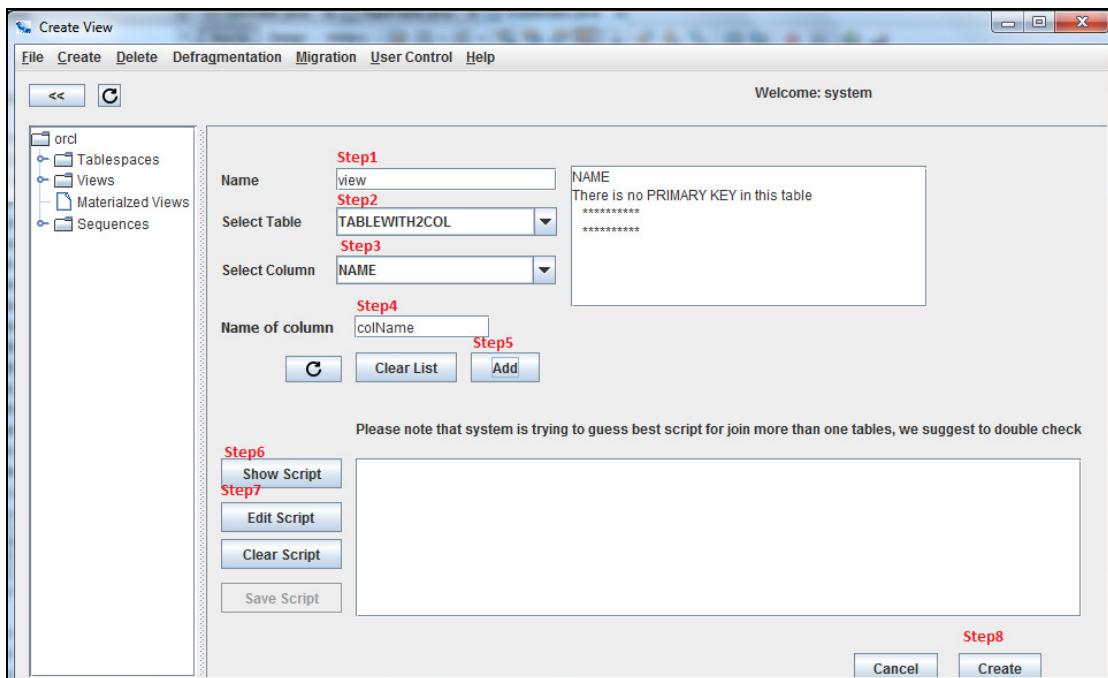


Figure 11: Create View

## 6.4 *Create Sequence*

This function allow user to create new sequence into database. To create new sequence follow step below and refer to Figure 12-

**Step1:** Go to **Create->Sequence**. Key in **Sequence name** in the text box

**Step2:** Choose **Schema** from combo box

**Step3:** Select **radio bottom**, how you would like to run your sequence. If you want to run sequence in cycle click on '**Cycle**' or if you would like to run sequence in order, click on '**Order**' or if you would like to run in **both**, click on both or if you don't want just leave it both uncheck.

**Step4:** Key in integer into '**Start with**' text box, that where you would like to start.

**Step5:** Key in integer into '**Increment By**' text box, which how many you would like to increase.

**Step6:** Key in integer into '**Min value**'.

**Step7:** Key in integer into '**Max value**'.

**Step8:** Select the '**Cache**' or '**Nocache**'.

## User Manual for Crystal Cockpit

**Step9:** If you choose Cache from step8 key in ‘Size’ of the cache. (Option)

**Step10:** If you want to see script click on ‘Show Script’ (option)

**Step11:** If you modify that script, click on ‘Edit Script’ (option)

**Step12:** Click ‘Create’ to create new sequence.

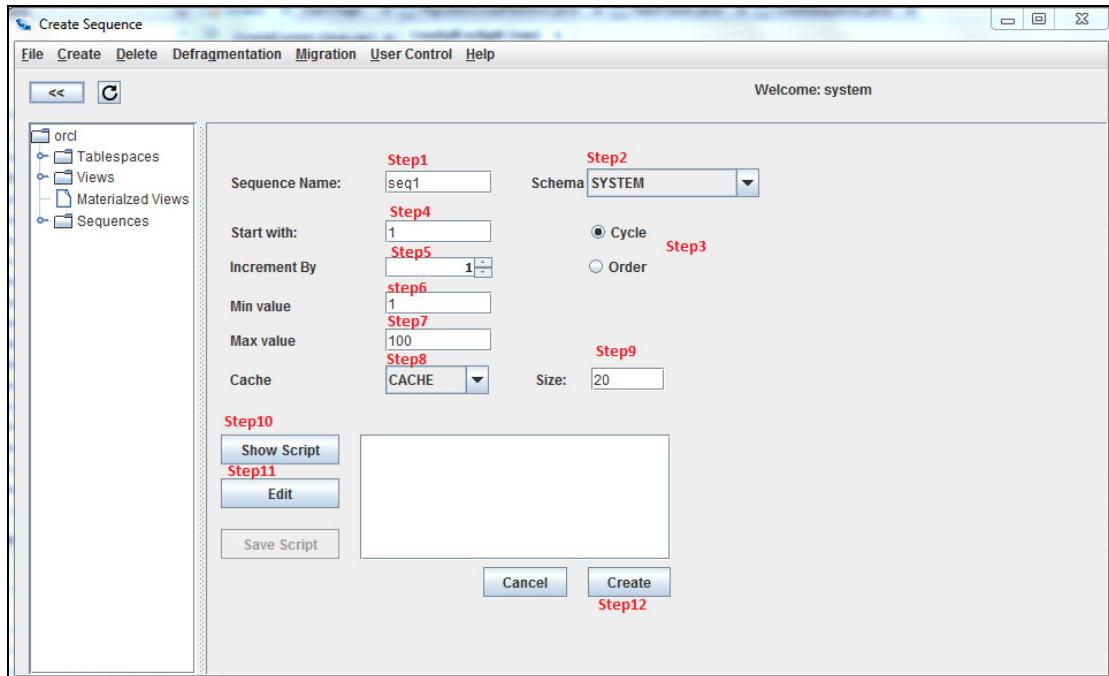


Figure 12: Create Sequence

## 6.5 Create Tablespace

This function allow user to create new tablespace into database. To create new tablespace follow step below and refer to Figure 13-

**Step1:** Go to **Create->Tablespace**. Key in **Tablespace name** in the text box

**Step2:** Click on ‘Browse’, select location that you would like to save your datafile.

**Step3:** Click on ‘Open’, to confirm the location.

**Step4:** Key in size of the tablespace in ‘Size’.

**Step5:** Choose the **measurement** of the size

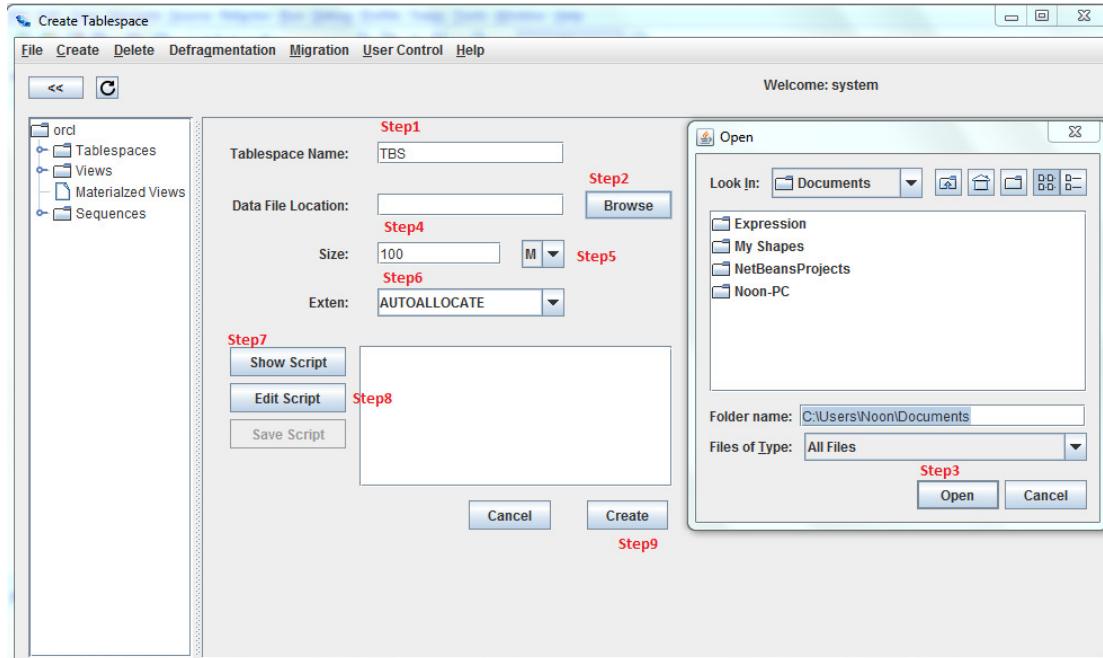
**Step6:** Select ‘Exten’, how do you would like to manage your exten.

# User Manual for Crystal Cockpit

**Step7:** If you want to see script click on ‘Show Script’ (option)

**Step8:** If you modify that script, click on ‘Edit Script’ (option)

**Step9:** Click ‘Create’ to create new tablespace.



**Figure 13: Create Tablespace**

## **6.6 Create Materialize View**

This function allow user to create new materialize view into database. To create new materialize view follow step below and refer to Figure 14-

**Step1:** Go to **Create->Materialize View**. Key in **Materialize View name** in the text box

### **Step2: Choose Table from combo box**

**Step3:** Choose **column name** of table that selected on step 2.

**Step4:** Click on ‘Add’. If you would like to add one more columns repeat from Step2 to Step4.

**Step5:** Click on ‘Show Script’ check the script. If the script is not the one you want do the Step6, Step7 and if is yes do the Step8.

**Step6:** Click on ‘Edit Script’ to modify the script.

**Step7:** Add where condition in script box.

## User Manual for Crystal Cockpit

**Step8:** Click ‘Create’ to create new materialize view.

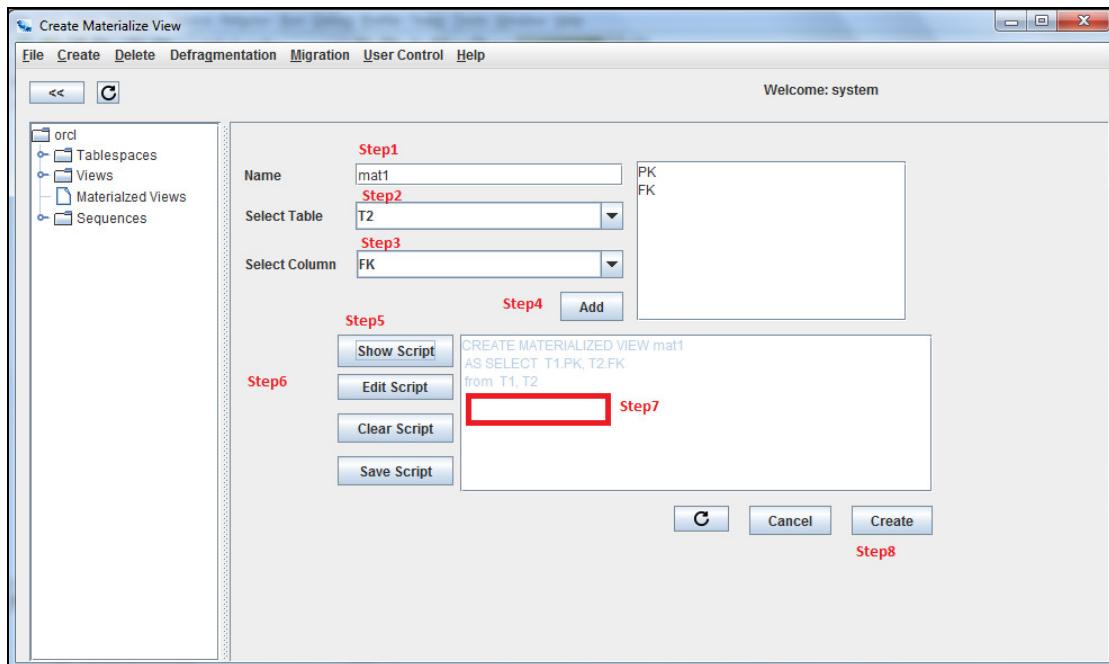


Figure 14: Create Materialize View

### 6.7 *Create Directory*

This function allow user to create new directory into database. To create new directory follow step below and refer to Figure 15-

**Step1:** Go to **Create->Directory**. Key in **Directory name** in the text box

**Step2:** Click on ‘**Browse**’, select location that you would like to assign your directory.

**Step3:** Click on ‘**Open**’, to confirm the location.

**Step4:** If you want to see script click on ‘**Show Script**’ (option)

**Step5:** If you modify that script, click on ‘**Edit Script**’ (option)

**Step6:** Click ‘**Create**’ to create new directory.

# User Manual for Crystal Cockpit

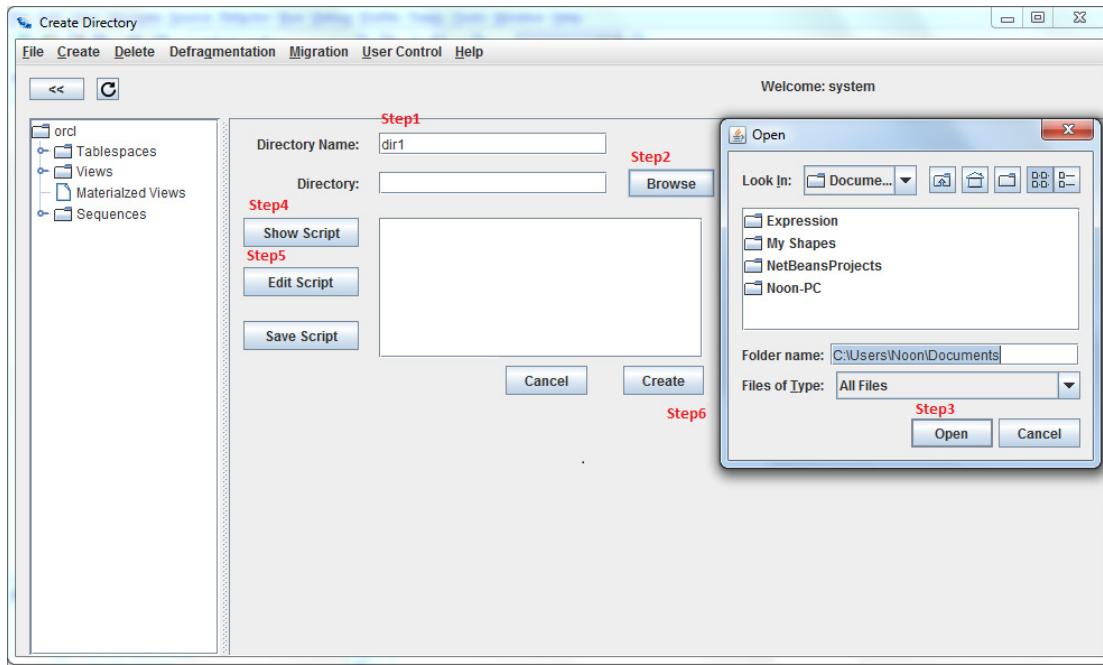


Figure 15: Create Directory

## 7 Delete Menu

This menu provides to delete data objects from database. The functions are:

- Delete Table
- Delete Index
- Delete View
- Delete Sequence
- Delete Tablespace
- Delete Materialize View and
- Delete Directory.

### 7.1 Delete Table

This feature allow user to delete table from database. To delete table, follow the step below and refer to Figure 16-

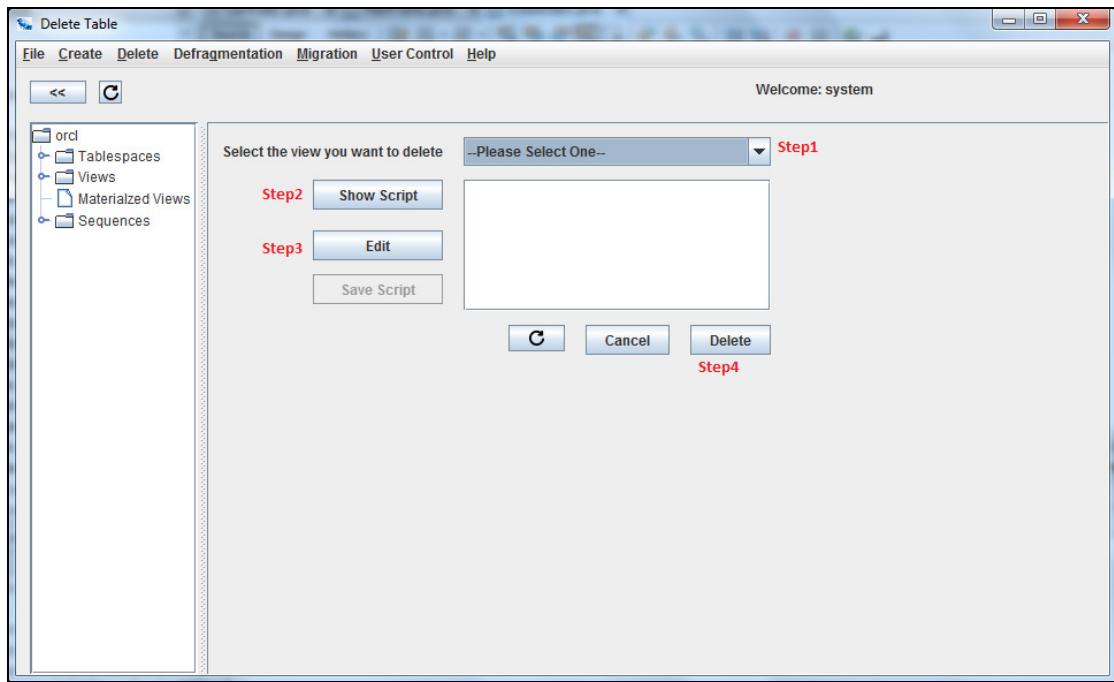
**Step1:** Go to **Delete->Table**. Select **Table name** from combo box

**Step2:** If you want to see script click on '**Show Script**' (option)

**Step3:** If you modify that script, click on '**Edit Script**' (option)

## User Manual for Crystal Cockpit

**Step4:** Click ‘Delete’ to delete the selected Table.



**Figure 16: Delete Table**

## 7.2 **Delete Index**

This feature allow user to delete index from database. To delete index, follow the step below and refer to Figure 17-

**Step1:** Go to **Delete->Index**. Select **Table name** from combo box

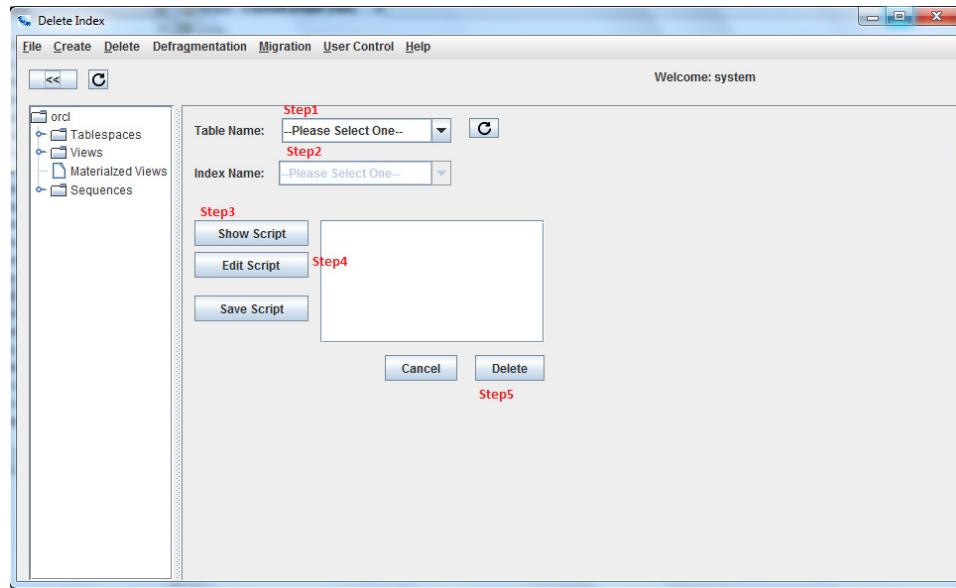
**Step2:** Select **Index name** from combo box

**Step3:** If you want to see script click on ‘**Show Script**’ (option)

**Step4:** If you modify that script, click on ‘**Edit Script**’ (option)

**Step5:** Click ‘**Delete**’ to delete the selected Table.

# User Manual for Crystal Cockpit



**Figure 17: Delete Index**

## 7.3 Delete View

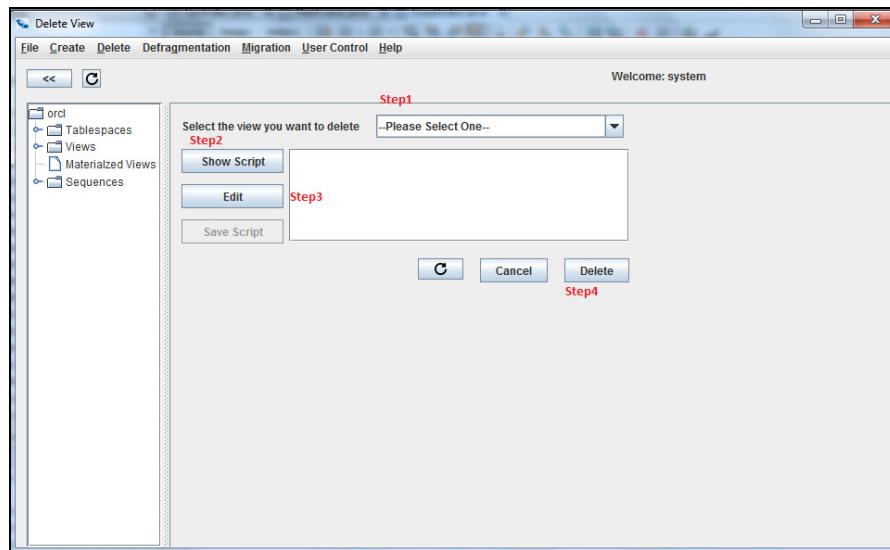
This feature allow user to delete view from database. To delete view, follow the step below and refer to Figure 18-

**Step1:** Go to **Delete->View**. Select **View name** from combo box

**Step2:** If you want to see script click on '**Show Script**' (option)

**Step3:** If you modify that script, click on '**Edit Script**' (option)

**Step4:** Click '**Delete**' to delete the selected Table.



**Figure 18: Delete View**

## 7.4 Delete Sequence

This feature allow user to delete sequence from database. To delete sequence, follow the step below and refer to Figure 19-

**Step1:** Go to **Delete->Sequence**. Select **Sequence name** from combo box

**Step2:** If you want to see script click on '**Show Script**' (option)

**Step3:** If you modify that script, click on '**Edit Script**' (option)

**Step4:** Click '**Delete**' to delete the selected Table.

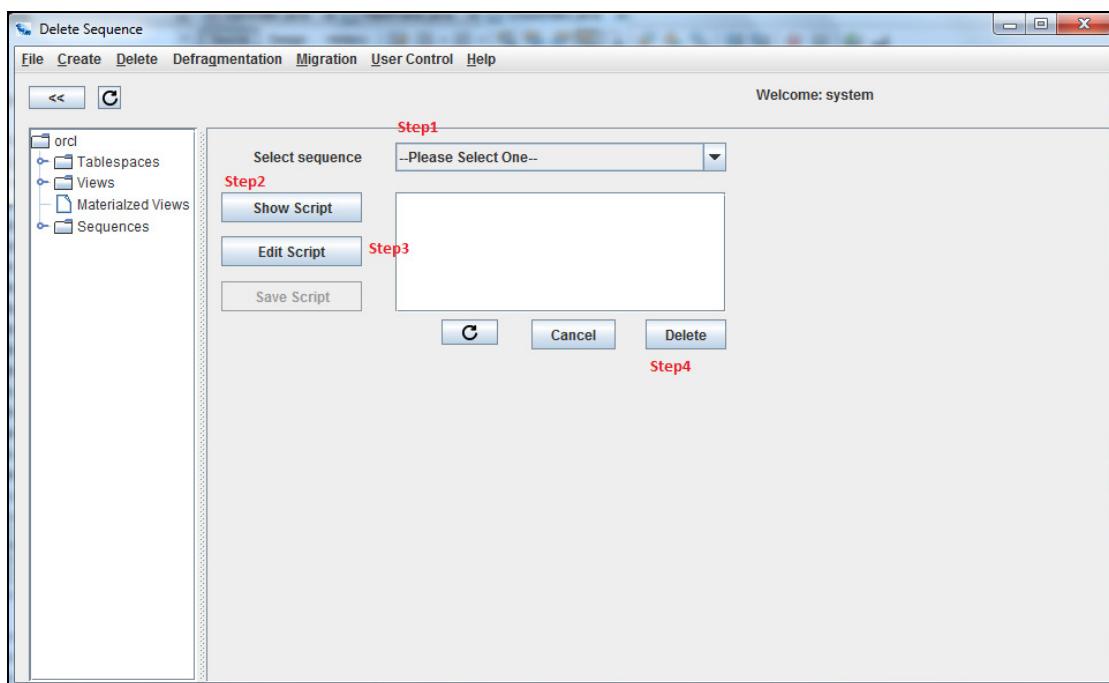


Figure 19: Delete Sequence

## 7.5 Delete Tablespace

This feature allow user to delete tablespace from database. To delete tablespace, follow the step below and refer to Figure 20-

**Step1:** Go to **Delete->Tablespace**. Select **Tablespace name** from combo box.

**Step2:** Select '**Delete including**' from combo box.

**Step3:** If you want to see script click on '**Show Script**' (option).

**Step4:** If you modify that script, click on '**Edit Script**' (option).

**Step5:** Click '**Delete**' to delete the selected Table.

# User Manual for Crystal Cockpit

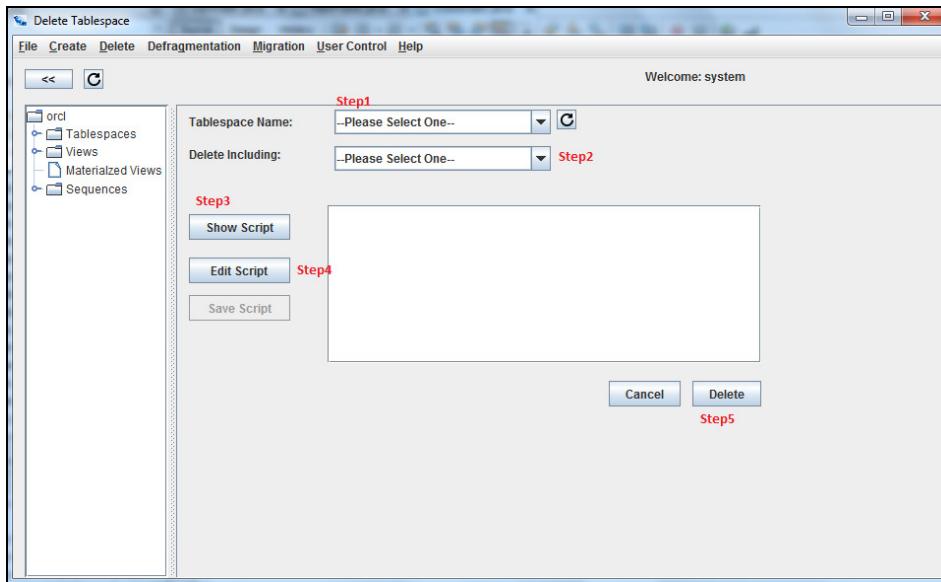


Figure 20: Delete Tablespace

## 7.6 Delete Materialize View

This feature allow user to delete materialize view from database. To delete materialize view, follow the step below and refer to Figure 21-

**Step1:** Go to **Delete->Materialize View**. Select **Materialize View name** from combo box.

**Step3:** If you want to see script click on '**Show Script**' (option).

**Step4:** If you modify that script, click on '**Edit Script**' (option).

**Step5:** Click '**Delete**' to delete the selected Table.

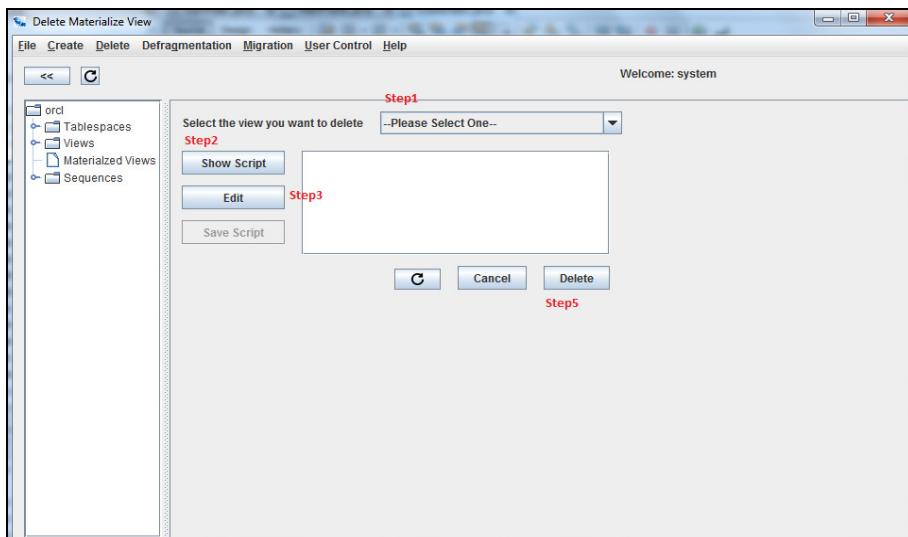


Figure 21: Delete Materialize View

### 7.7 Delete Directory

This feature allow user to delete directory from database. To delete directory, follow the step below and refer to Figure 22-

**Step1:** Go to **Delete->Directory**. Select **Directory name** from combo box.

**Step2:** If you want to see script click on ‘**Show Script**’ (option).

**Step3:** If you modify that script, click on ‘**Edit Script**’ (option).

**Step4:** Click ‘**Delete**’ to delete the selected Table.

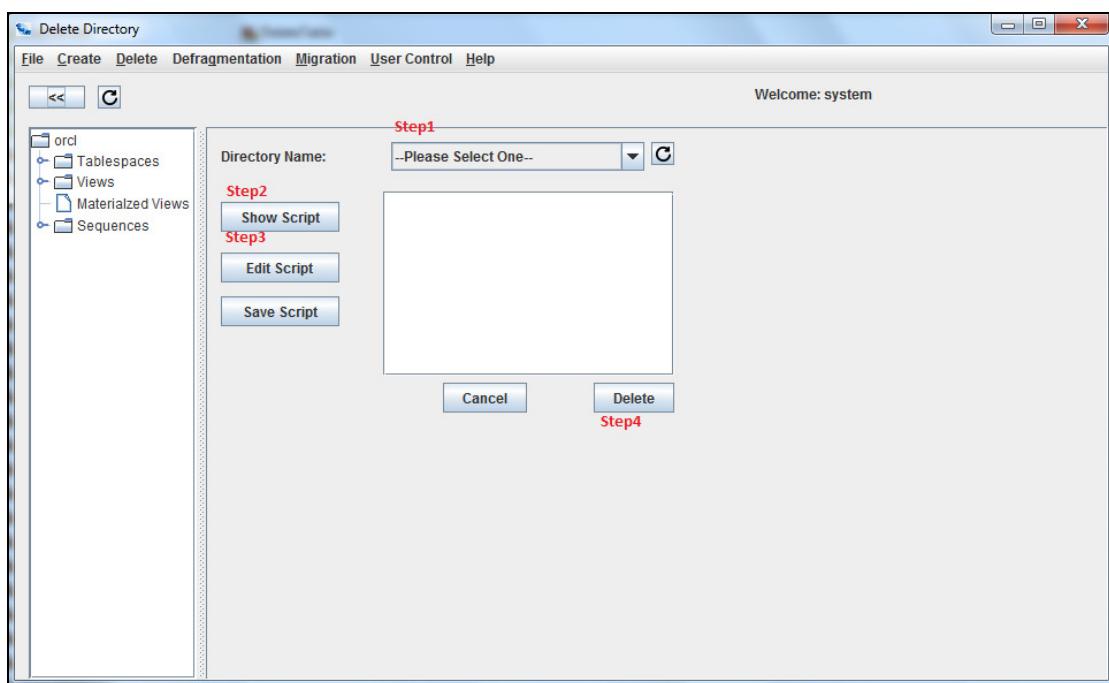


Figure 22: Delete Directory

## 8 Defragmentation Menu

This menu provides to defragment database. The functions are:

- Defragmentation Database
- Defragmentation Tablespace and
- Defragmentation Table.

## 8.1 Defragmentation Database

This feature allow user to defragment database. To defragment database, follow the step below and refer to Figure 23-

**Step1:** Go to **Defragmentation->Database**. Click on ‘**Defragment**’ button.

**Step2:** If you would like to see the process, you can see the process on text box screen. When the defragment is finish you can see “Database is defragmented” on screen. (Note: Time will take longer depend on database size and PC or Computer.)

**Step3:** If you would like to clear the text from text box click on ‘**Clear Text**’. (Option)

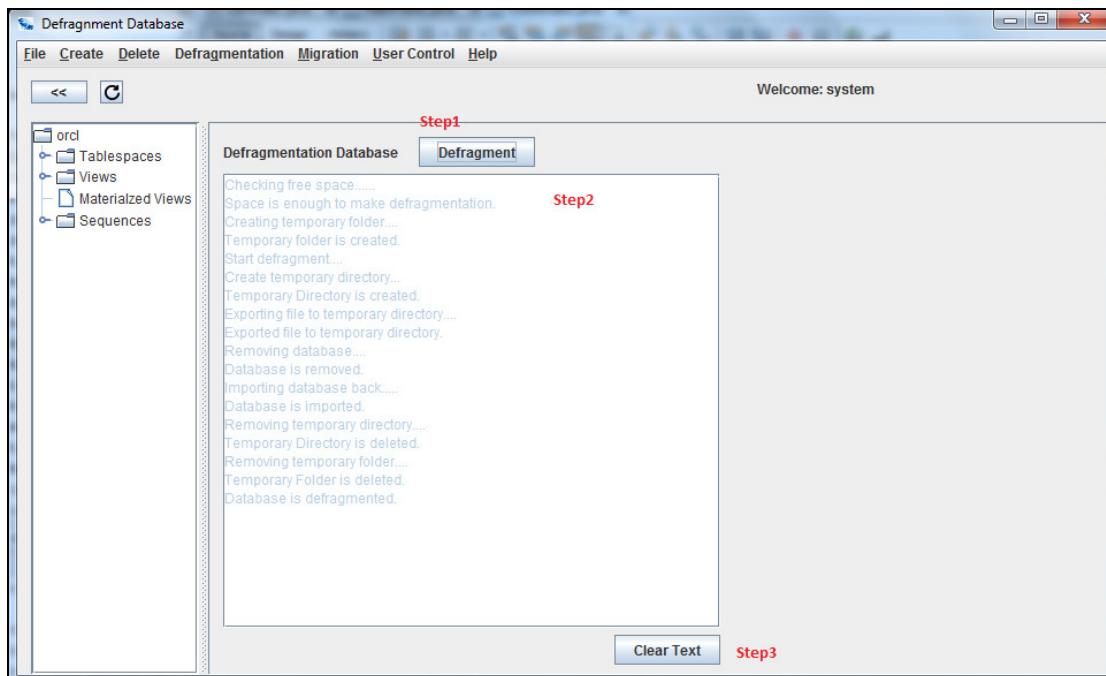


Figure 23: Defragment Database

## 8.2 Defragmentation Tablespace

This feature allow user to defragment tablespace. To defragment Tablespace, follow the step below and refer to Figure 24-

**Step1:** Go to **Defragmentation->Tablespace**. Choose **Tablespace** from combo box.

**Step2:** Click on ‘**Defragment**’ button.

## User Manual for Crystal Cockpit

**Step3:** If you would like to see the process, you can see the process on text box screen. When the defragment is finish you can see “Tablespace is defragmented” on screen. (Note: Time will take medium depend on database size and PC or Computer.)

**Step4:** If you would like to clear the text from text box click on ‘**Clear Text**’.  
(Option)

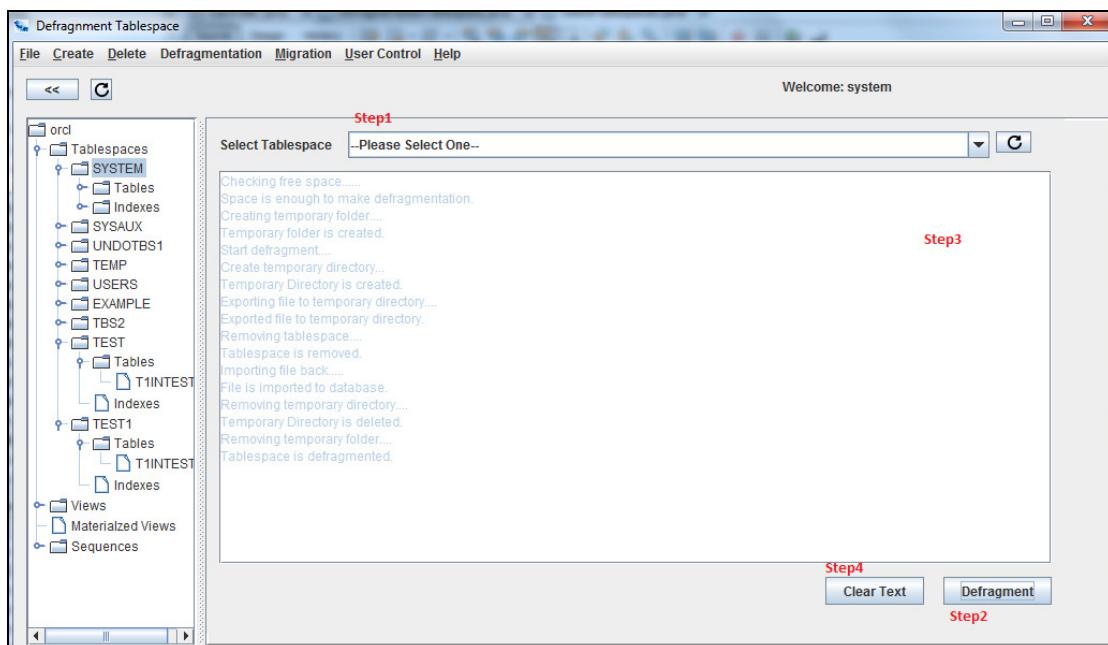


Figure 24: Defragment Tablespace

### 8.3 Defragmentation Table

This feature allow user to defragment table. To defragment table, follow the step below and refer to Figure 25-

**Step1:** Go to **Defragmentation->Table**. Choose **Table** from combo box.

**Step2:** Click on ‘**Defragment**’ button.

**Step3:** If you would like to see the process, you can see the process on text box screen. When the defragment is finish you can see “Table is defragmented” on screen.

**Step4:** If you would like to clear the text from text box click on ‘**Clear Text**’.  
(Option)

# User Manual for Crystal Cockpit

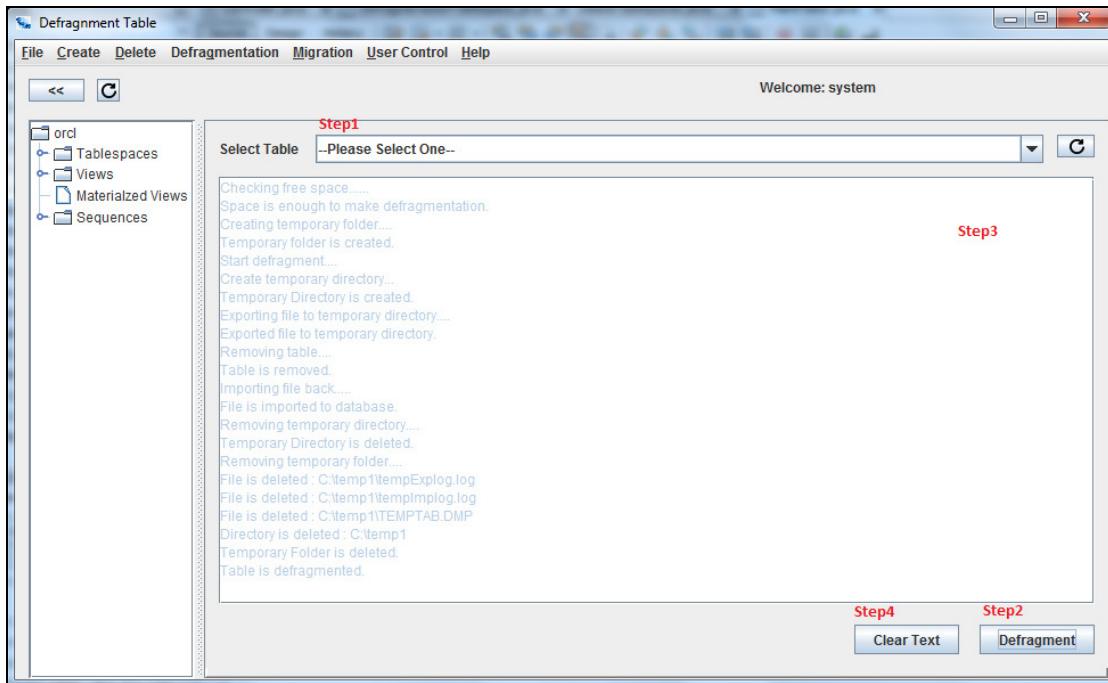


Figure 25: Defragment Table

## 9 Migration

This menu provides migrate data in database. The functions are:

- Exp/Imp Schema
- Exp/Imp Table
- Exp/Imp Tablespace
- Exp/Imp Database and
- Migration to MySQL.

### 9.1 *Exp/Imp Schema*

This feature allow user to export schema from database and import schema to database.

#### 9.1.1 Export Schema from Database

To export schema from database, follow the step below and refer to Figure 26-

**Step1:** Go to **Migration->Exp/Imp Schema**. Choose **Directory** from combo box.

## User Manual for Crystal Cockpit

**Step2:** If you don't have directory, click on 'Click Here to Create Directory'. After you finish create directory come to back to **Migration -> Exp/Imp Schema**. And select **directory** that you created just now. (Option)

**Step3:** Key in **dump file name**.

**Step4:** Key in **log file name**.

**Step5:** Select **Schema** on table. You can select one or more.

**Step6:** Click on 'Export'

**Step7:** Wait for a few minus (depend how large of that schema) when exporting finish system will pop-up log file on screen.

**Step8:** If you would like to delete your schema click on 'Click Here to Delete Schema'. This option is depend on how user want, sometime user want to delete that schema and keep dump file for backup only.(Option)

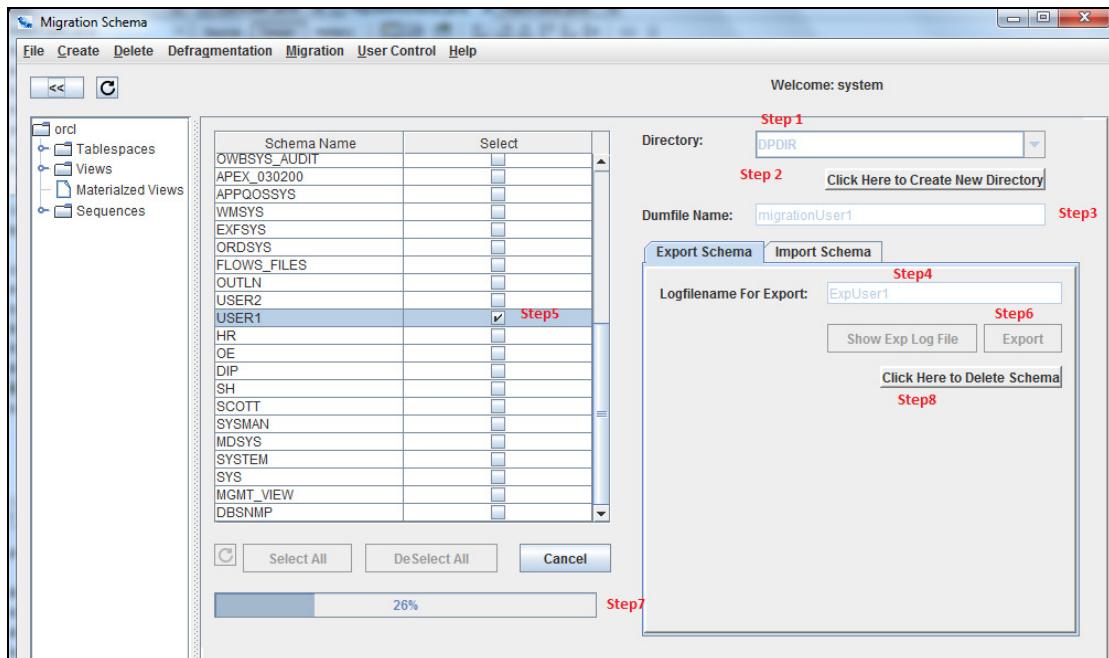


Figure 26: Export Schema

### 9.1.2 Import Schema to Database

To import schema to database, follow the step below and refer to Figure 27-

**Step1:** Go to **Migration->Exp/Imp Schema**. Choose **Directory** from combo box.

## User Manual for Crystal Cockpit

**Step2:** If you don't have directory, click on '**Click Here to Create Directory**'. After you finish create directory come to back to **Migration -> Exp/Imp Schema**. And select **directory** that you created just now. (Option)

**Step3:** Key in **dump file** name.

**Step4:** System record **schema name** from last exported schema name. If you don't want to change you can do **step6**. If you would like to change click on '**Edit**' and go to Step5.

**Step5:** Key in Schema name in text file. (option)

**Step6:** If you would like to **import** into **different database** follow from Step7 to Step12. If you would like to **import** into **same database** just click on '**Import into Current Database**' and skip steps from Step7 to Step12.

**Step7:** Key in **username** of other database.

**Step8:** Key in **password** of other database.

**Step9:** Key in **Database** name of other database.

**Step10:** Key in **Host** of other database.

**Step11:** Key in **Port** of other database.

**Step12:** Key in **log file** name.

**Step13:** Click on '**Import**'

**Step14:** Wait for a few minus (depend how large of that schema) when importing finish system will pop-up log file on screen.

# User Manual for Crystal Cockpit

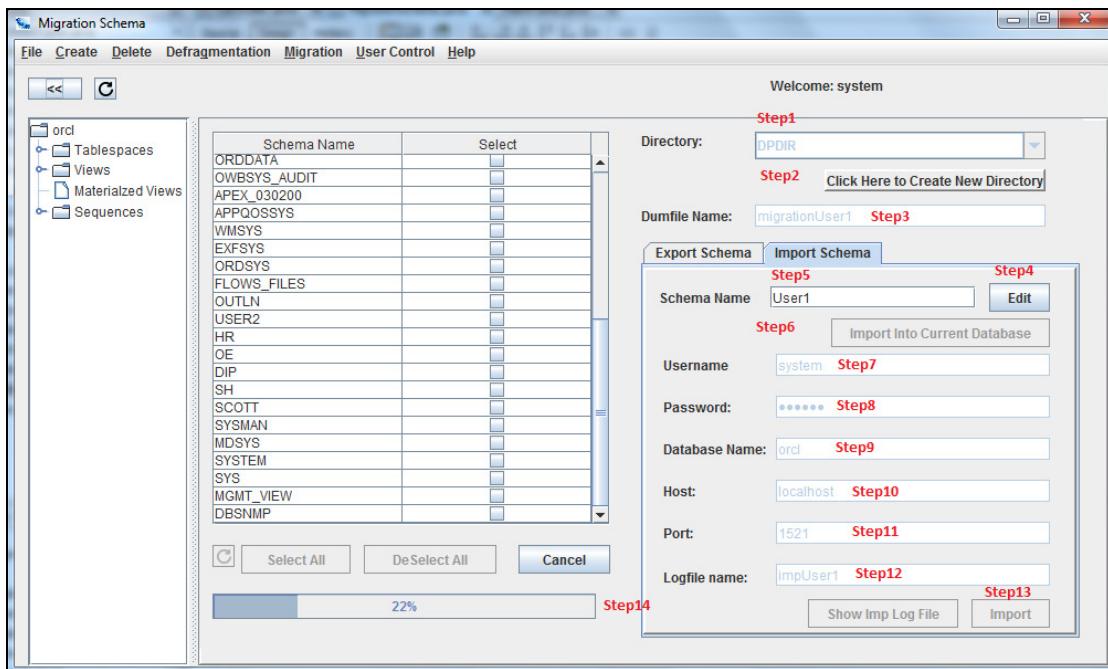


Figure 27: Import Schema

## 9.2 Exp/Imp Table

This feature allow user to export table from database and import table to database.

### 9.2.1 Export Table from Database

To export schema from database, follow the step below and refer to Figure 28-

**Step1:** Go to **Migration->Exp/Imp Table**. Choose **Directory** from combo box.

**Step2:** If you don't have directory, click on '**Click Here to Create Directory**'. After you finish create directory come to back to **Migration -> Exp/Imp Table**. And select **directory** that you created just now. (Option)

**Step3:** Key in **dump file** name.

**Step4:** Key in **log file** name.

**Step5:** Select **Table** on table. You can select one or more.

**Step6:** Click on '**Export**'

**Step7:** Wait for a few minus or seconds when exporting finish system will pop-up log file on screen.

## User Manual for Crystal Cockpit

**Step8:** If you would like to delete your table click on ‘**Click Here to Delete Table**’. This option is depend on how user want, sometime user want to delete that table and keep dump file for backup only.(Option)

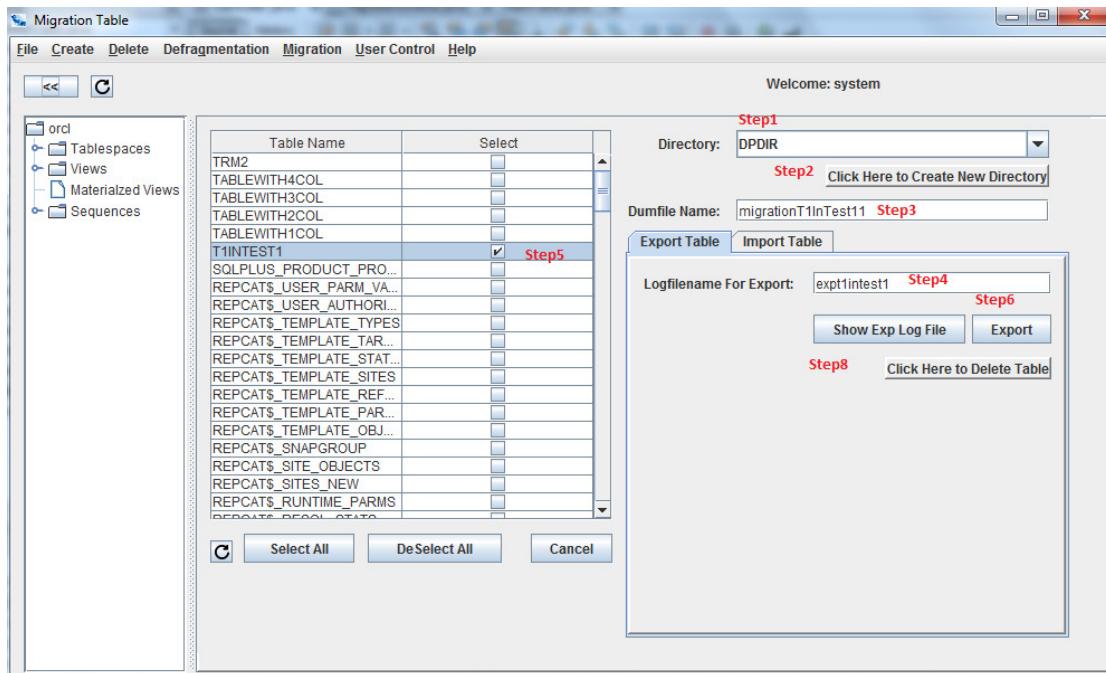


Figure 28: Export Table

### 9.2.2 Import Table to Database

To import schema to database, follow the step below and refer to Figure 29-

**Step1:** Go to **Migration->Exp/Imp Table**. Choose **Directory** from combo box.

**Step2:** If you don't have directory, click on ‘**Click Here to Create Directory**’. After you finish create directory come to back to **Migration -> Exp/Imp Table**. And select **directory** that you created just now. (Option)

**Step3:** Key in **dump file name**.

**Step4:** System record **table name** from last exported table name. If you don't want to change you can do **step6**. If you would like to change click on ‘**Edit**’ and go to **Step5**.

**Step5:** Key in Table name in text file. (Option)

## User Manual for Crystal Cockpit

**Step6:** If you would like to **import** into **different database** follow from **Step7** to **Step12**. If you would like to **import** into **same database** just click on '**Import into Current Database**' and skip steps from Step7 to Step12.

**Step7:** Key in **username** of other database.

**Step8:** Key in **password** of other database.

**Step9:** Key in **Database** name of other database.

**Step10:** Key in **Host** of other database.

**Step11:** Key in **Port** of other database.

**Step12:** Key in **log file** name.

**Step13:** Click on '**Import**'

**Step14:** Wait for a few minus/seconds when importing finish system will pop-up log file on screen.

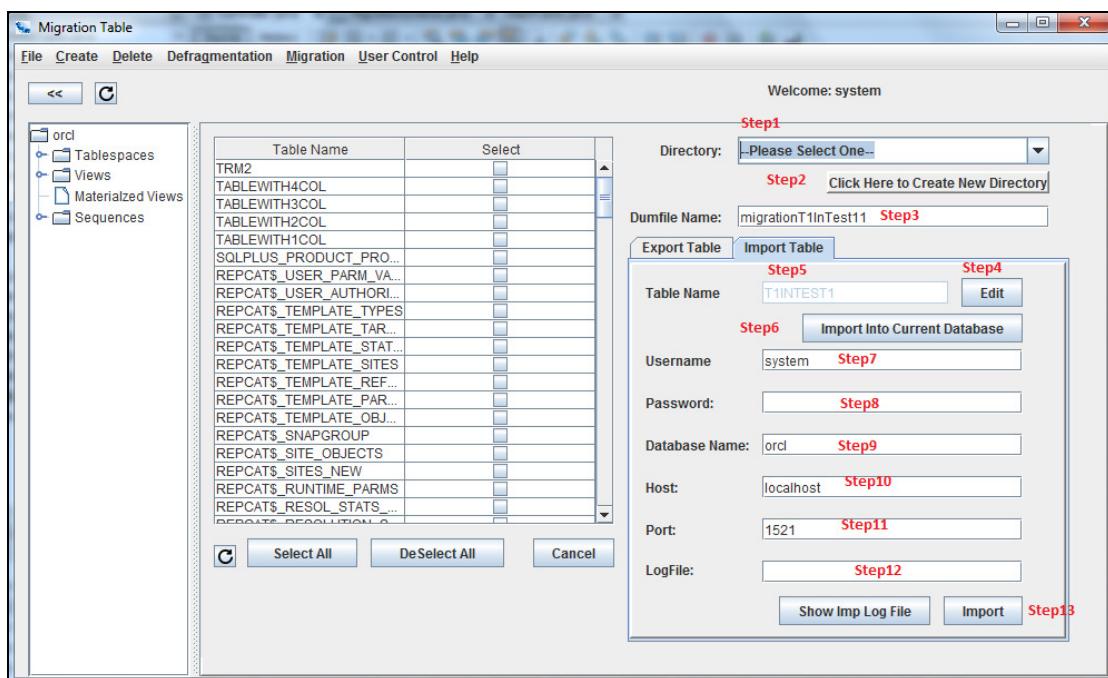


Figure 29: Import Table

## 9.3 *Exp/Imp Tablespace*

This feature allow user to export tablespace from database and import tablespace to database.

### 9.3.1 Export Tablespace from Database

To export schema from database, follow the step below and refer to Figure 30-

**Step1:** Go to **Migration->Exp/Imp Tablespace**. Choose **Directory** from combo box.

**Step2:** If you don't have directory, click on '**Click Here to Create Directory**'. After you finish create directory come to back to **Migration -> Exp/Imp Tablespace**. And select **directory** that you created just now.  
(Option)

**Step3:** Key in **dump file** name.

**Step4:** Key in **log file** name.

**Step5:** Select **Tablespace** on table. You can select one or more.

**Step6:** Click on '**Export**'

**Step7:** Wait for a few minus (depend how large of that tablespace) when exporting finish system will pop-up log file on screen.

**Step8:** If you would like to delete your schema click on '**Click Here to Delete Tablespace**'. This option is depend on how user want, sometime user want to delete that tablespace and keep dump file for backup only.(Option)

# User Manual for Crystal Cockpit

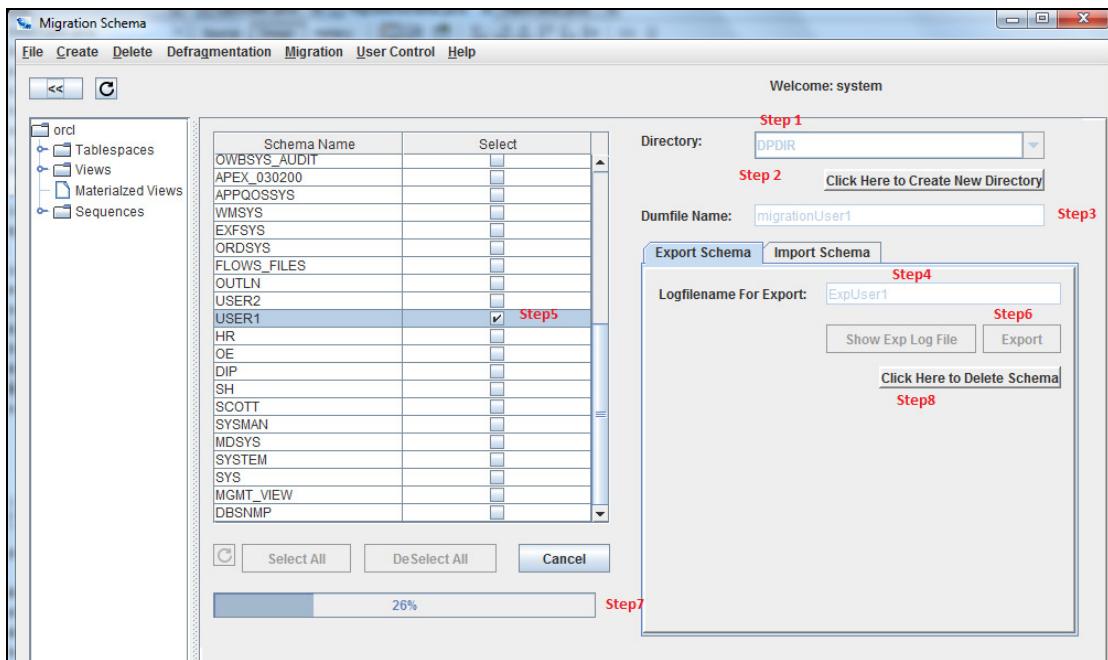


Figure 30: Export Tablespace

### 9.3.2 Import Tablespace to Database

Before importing tablespace you have to check, that tablespace name already has inside your database or not. If not you have to create new tablespace before you do importing (oracle export/import rule).

To import tablespace to database, follow the step below and refer to Figure 31-

**Step1:** Go to **Migration->Exp/Imp Tablespace**. Choose **Directory** from combo box.

**Step2:** If you don't have directory, click on '**Click Here to Create Directory**'. After you finish create directory come to back to **Migration -> Exp/Imp Tablespace**. And select **directory** that you created just now. (Option)

**Step3:** Key in **dump file name**.

**Step4:** System record **tablespace name** from last exported schema name. If you don't want to change you can do **step6**. If you would like to change click on '**Edit**' and go to Step5.

**Step5:** Key in Schema name in text file. (Option)

## User Manual for Crystal Cockpit

**Step6:** If you would like to **import** into **different database** follow from Step7 to Step12. If you would like to **import** into **same database** just click on '**Import into Current Database**' and skip steps from Step7 to Step12.

**Step7:** Key in **username** of other database.

**Step8:** Key in **password** of other database.

**Step9:** Key in **Database name** of other database.

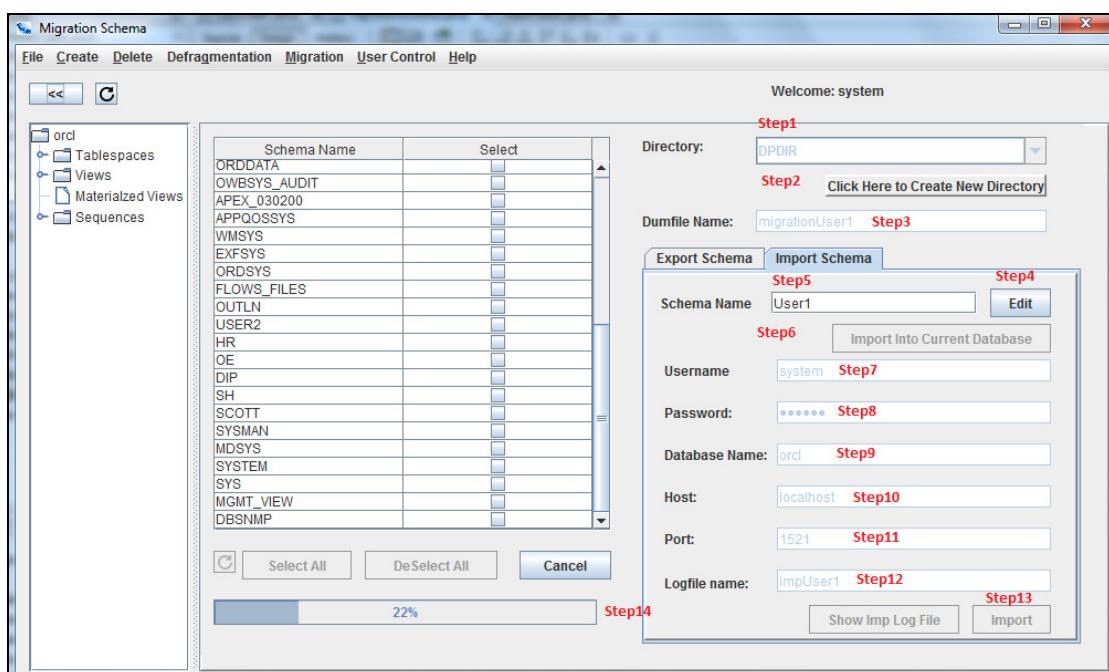
**Step10:** Key in **Host** of other database.

**Step11:** Key in **Port** of other database.

**Step12:** Key in **log file** name.

**Step13:** Click on '**Import**'

**Step14:** Wait for a few minus (depend how large of that tablespace) when importing finish system will pop-up log file on screen.



**Figure 31: Import Tablespace**

## 9.4 Exp/Imp Database

This feature allow user to export database and import database.

### 9.4.1 Export Database

To export database, follow the step below and refer to Figure 32-

**Step1:** Go to **Migration->Exp/Imp Database**. Choose **Directory** from combo box.

**Step2:** If you don't have directory, click on '**Click Here to Create Directory**'. After you finish create directory come to back to **Migration -> Exp/Imp Database**. And select **directory** that you created just now. (Option)

**Step3:** Key in **dump file name**.

**Step4:** Key in **log file name**.

**Step5:** Click on '**Export**'.

**Step6:** Wait for a few minus (depend how large of that database) when exporting finish system will pop-up log file on screen.

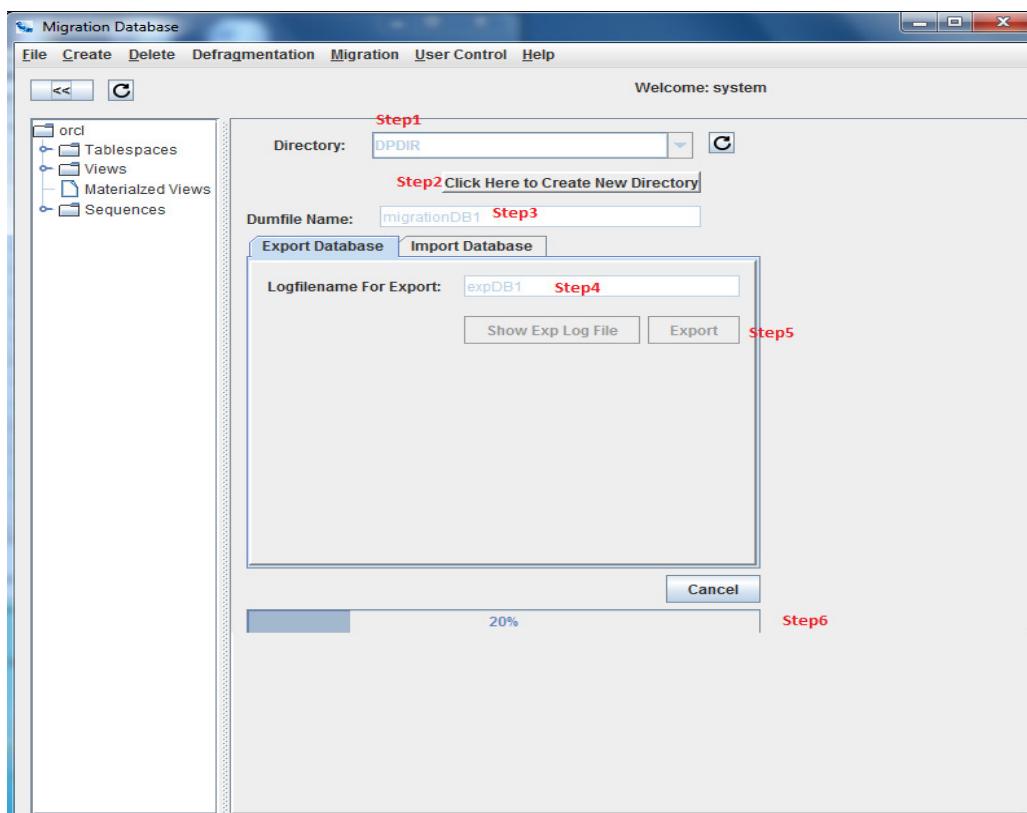


Figure 32: Export Database

### 9.4.2 Import Database

To import tablespace to database, follow the step below and refer to Figure 33-

**Step1:** Go to **Migration->Exp/Imp Database**. Choose **Directory** from combo box.

**Step2:** If you don't have directory, click on '**Click Here to Create Directory**'. After you finish create directory come to back to **Migration -> Exp/Imp Database**. And select **directory** that you created just now. (Option)

**Step3:** Key in **dump file name**.

**Step4:** System record **tablespace name** from last exported schema name. If you don't want to change you can do **step6**. If you would like to change click on '**Edit**' and go to Step5.

**Step5:** If you would like to **import** into **different database** follow from Step7 to Step12. If you would like to **import** into **same database** just click on '**Import into Current Database**' and skip steps from Step7 to Step12.

**Step7:** Key in **username** of other database.

**Step8:** Key in **password** of other database.

**Step9:** Key in **Database** name of other database.

**Step10:** Key in **Host** of other database.

**Step11:** Key in **Port** of other database.

**Step12:** Key in **log file** name.

**Step13:** Click on '**Import**'

**Step14:** Wait for a few minus (depend how large of that database) when importing finish system will pop-up log file on screen.

# User Manual for Crystal Cockpit

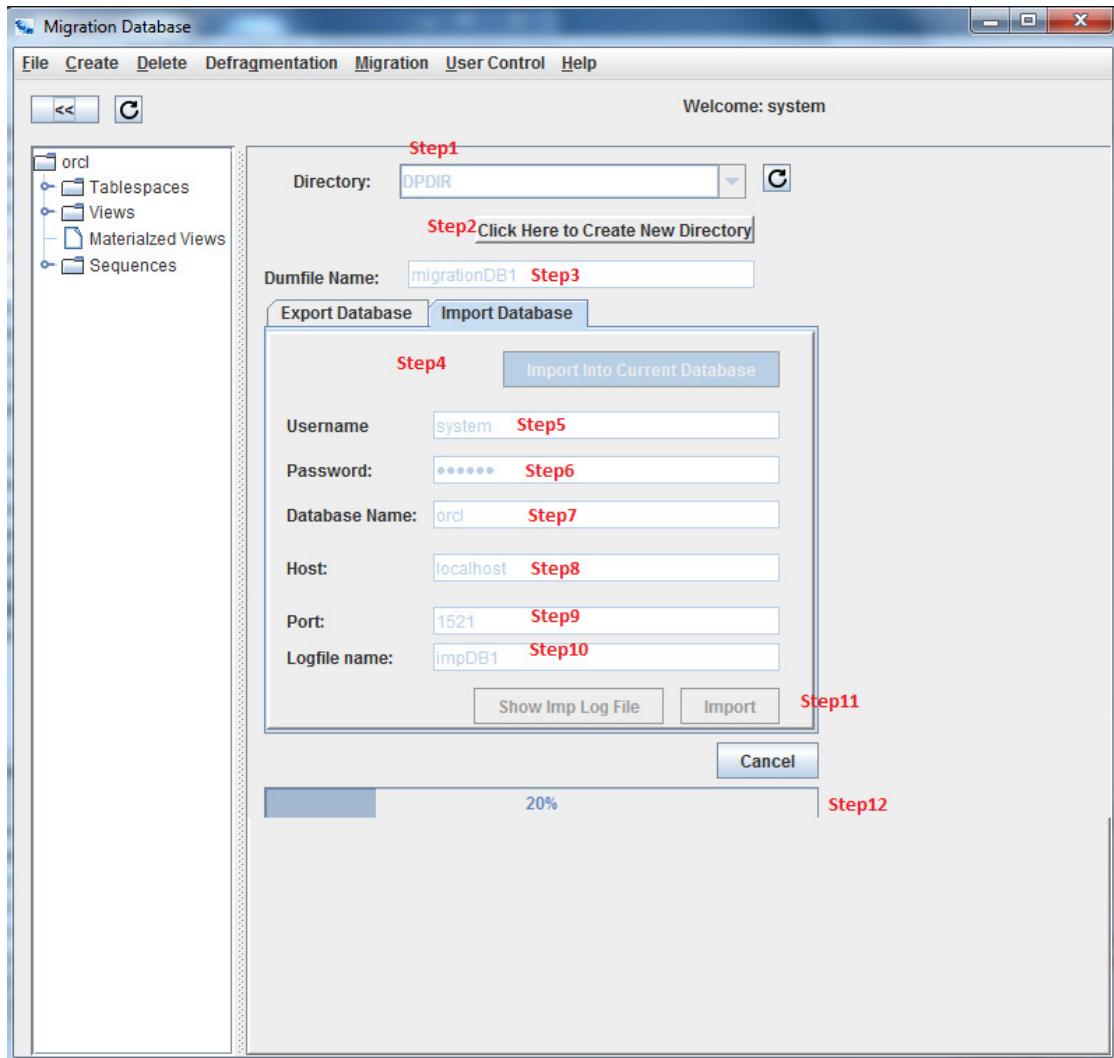


Figure 33: Import Database

## 9.5 Migration to MySQL

This feature allow user to export table from Oracle and import table to MySQL.

### 9.5.1 Export table from Oracle

To export table, follow the step below and refer to Figure 34-

**Step1:** Go to **Migration->Migration to MySQL**. Click on ‘Browse’.

**Step2:** Choose the directory where you would like to save csv file and click on ‘Open’.

**Step3:** Key in **CSV file name**.

**Step4:** Choose the **table** that user would like to export.

**Step5:** Click on ‘Export’.

# User Manual for Crystal Cockpit

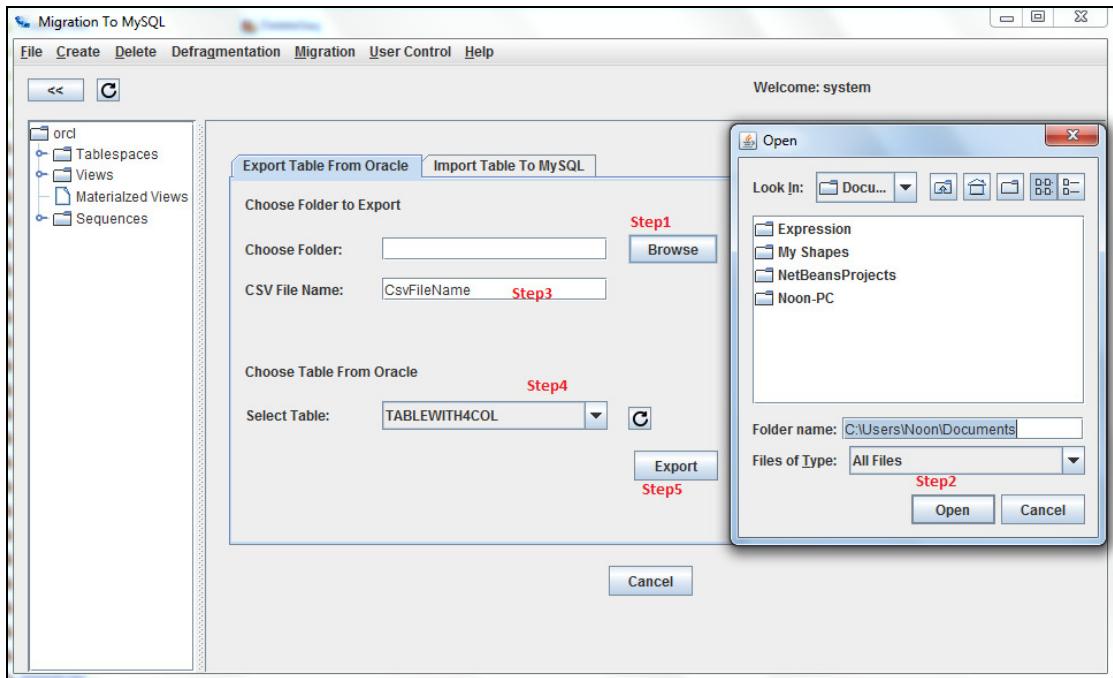


Figure 34: Export Table from Oracle

## 9.5.2 Import Table to MySQL

To import table to MySQL, follow the step below and refer to Figure 35-

**Step1:** Go to **Migration->Migration to MySQL**. Key in **username**.

**Step2:** Key in **password** of other database.

**Step3:** Key in **Database** name of other database.

**Step4:** Key in **Host** of other database.

**Step5:** Click on **Connect**.

**Step6:** Choose the **table** that user would like to import.

**Step7:** Click on '**Import**'.

# User Manual for Crystal Cockpit

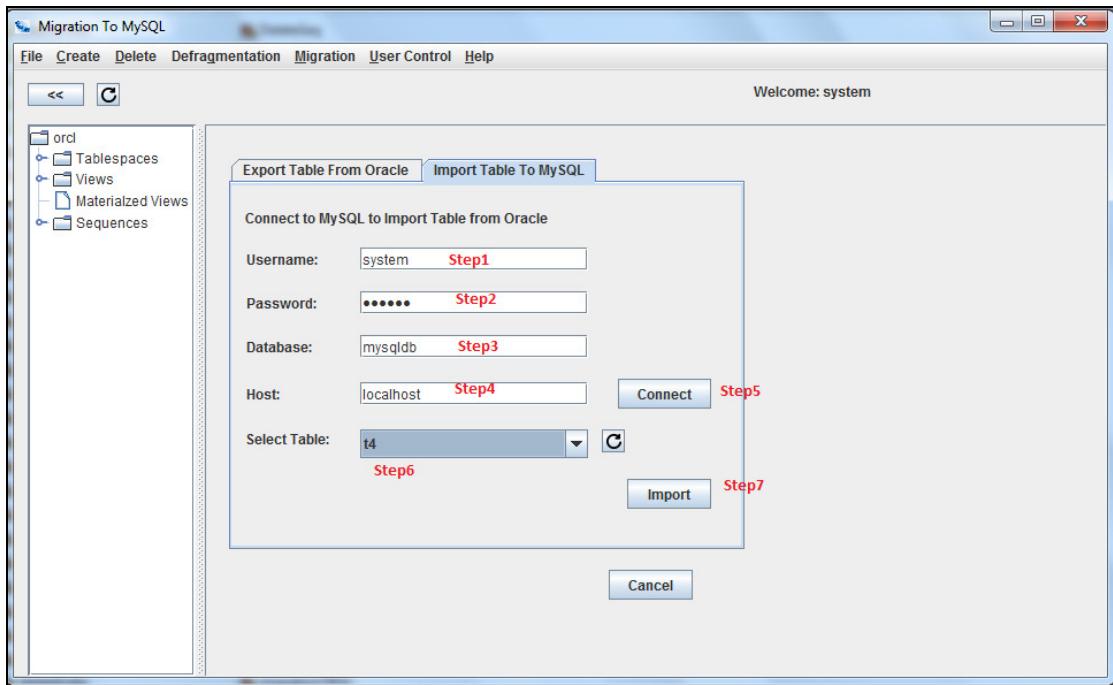


Figure 35: Import Table to MySQL

## 10 User Control Menu

This menu provides to control user database. The functions are:

- Delete User
- Create User
- Assign Role to User
- Grant Privileges and
- Mange Password.

### 10.1 Delete User

This feature allow user to delete user from database. To delete user, follow the step below and refer to Figure 36-

**Step1:** Go to **User Control->Delete User**. Choose **User** from combo box.

**Step2:** If you want to see script click on '**Show Script**' (option)

**Step3:** If you modify that script, click on '**Edit Script**' (option)

**Step4:** Click '**Delete**' to delete user.

## User Manual for Crystal Cockpit

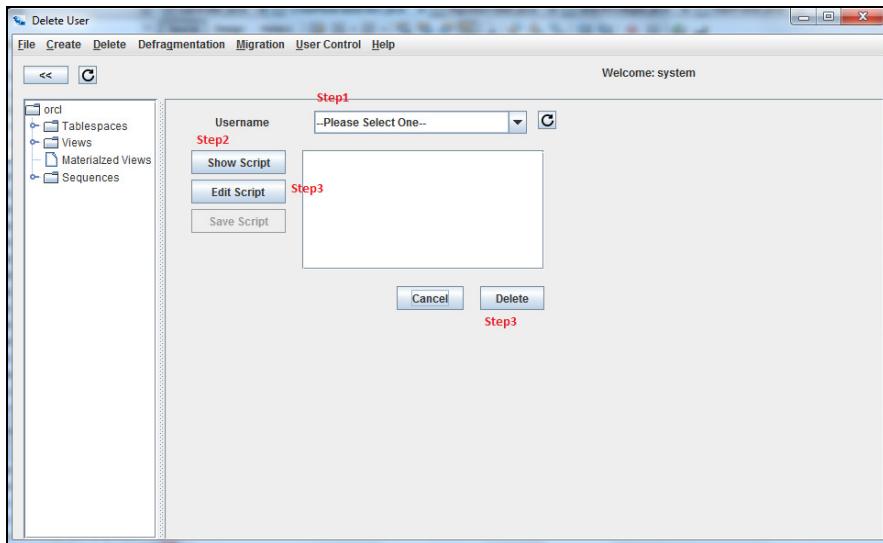


Figure 36: Delete User

### 10.2 Create User

This feature allow user to create user from database. To create user, follow the step below and refer to Figure 37-

**Step1:** Go to **User Control->Create User**. Key in **Username** into text box.

**Step2:** Key in **password** and **confirm password** into text box and you can see the checking bar at the side of password to check your **password level**.

**Step3:** Select **Tablespace**

**Step4:** Key in **quota** value on that tablespace that selected in Step3.

**Step5:** If you want to see script click on '**Show Script**' (option)

**Step6:** If you modify that script, click on '**Edit Script**' (option)

**Step7:** Click '**Create**' to create new user.

# User Manual for Crystal Cockpit

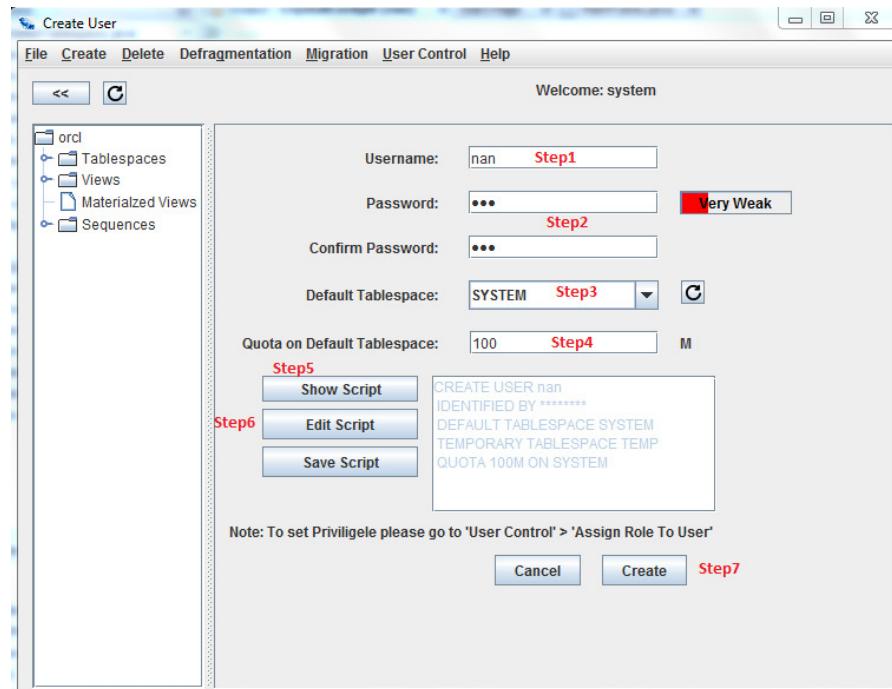


Figure 37: Create User

## 10.3 Assign Role to User

This menu provides user manage the role. The functions are:

- Create Role
- Delete Role
- Set Role and
- Alter Role/User

### 10.3.1 Create Role

This feature allow user to create role. To create role, follow the step below and refer to Figure 38-

**Step1:** Go to **User Control->Assign Role to User**. Key in **Role name** into text box.

**Step2:** Choose **Yes or No**. Yes means role **with password** and do the Step3 . No means role **with no password** and skip the Step3.

**Step3:** Key in **Password**

**Step4:** If you want to see script click on '**Show Script**' (option)

**Step5:** If you modify that script, click on '**Edit Script**' (option)

# User Manual for Crystal Cockpit

**Step7:** Click ‘Create’ to create new role.

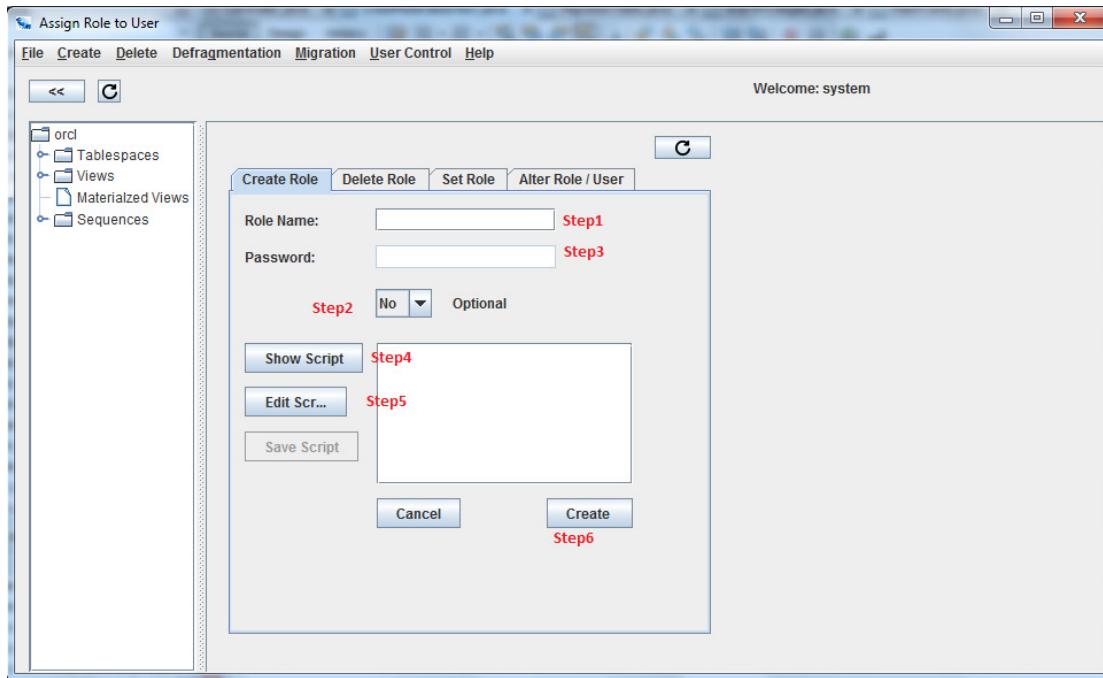


Figure 38: Create Role

## 10.3.2 Delete Role

This feature allow user to delete role. To delete role, follow the step below and refer to Figure 39-

**Step1:** Go to **User Control->Assign Role to User**. Select **Role name**.

**Step2:** If you want to see script click on ‘Show Script’ (option)

**Step3:** If you modify that script, click on ‘Edit Script’ (option)

**Step4:** Click ‘Delete’ to delete role.

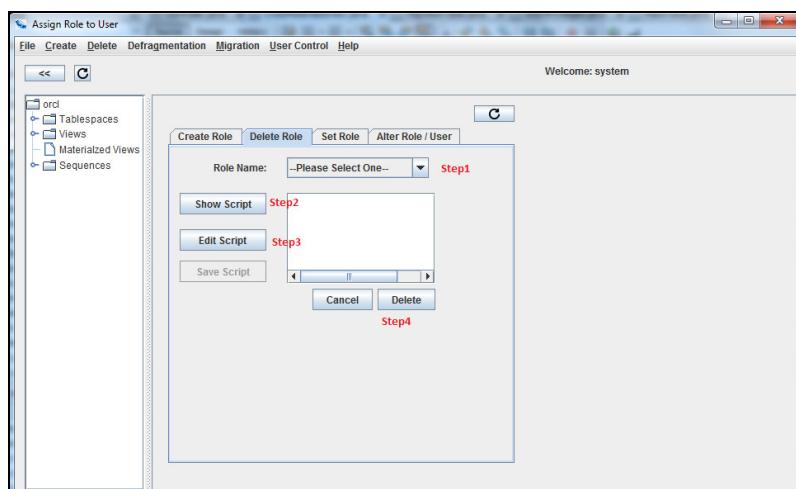


Figure 39: Delete Role

## User Manual for Crystal Cockpit

### 10.3.3 Set Role

This feature allow user to set role. To set role, follow the step below and refer to Figure 40-

**Step1:** Go to **User Control->Assign Role to User**. Select one option and fill up information.

**Step2:** If you want to see script click on ‘**Show Script**’ (option)

**Step3:** If you modify that script, click on ‘**Edit Script**’ (option)

**Step4:** Click ‘**OK**’.

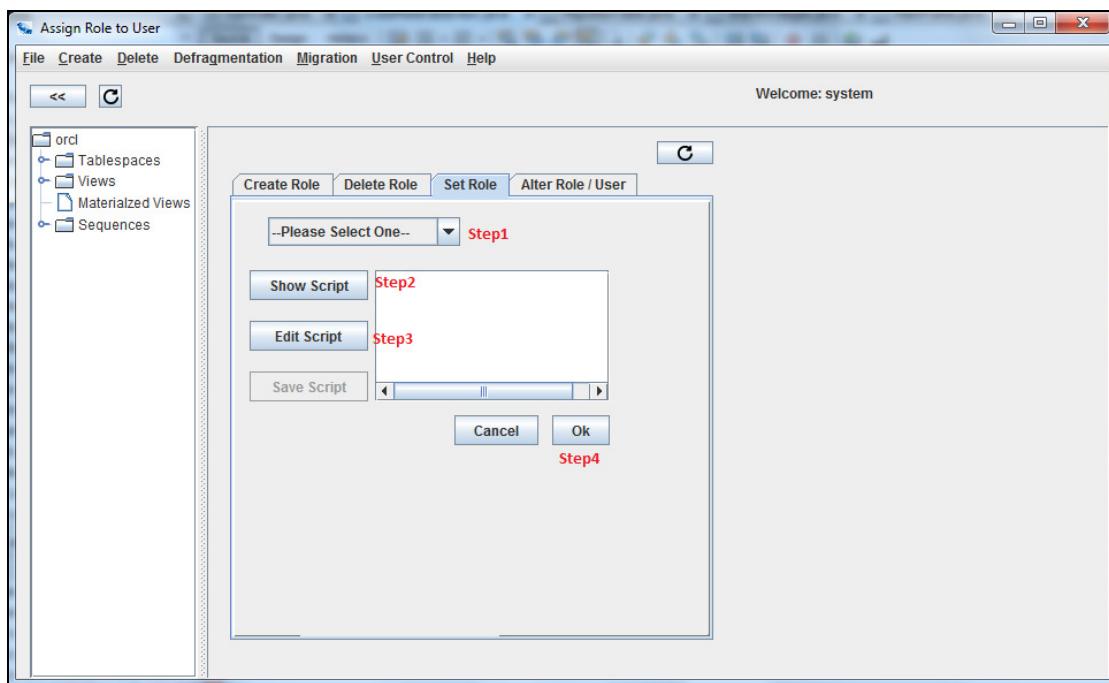


Figure 40: Set Role

### 10.3.4 Alter Role/User

This feature allow user to alter role/user. To alter role/user, follow the step below and refer to Figure 41-

**Step1:** Go to **User Control->Assign Role to User**. Select one option and fill up information.

**Step2:** If you want to see script click on ‘**Show Script**’ (option)

**Step3:** If you modify that script, click on ‘**Edit Script**’ (option)

**Step4:** Click ‘**OK**’.

# User Manual for Crystal Cockpit

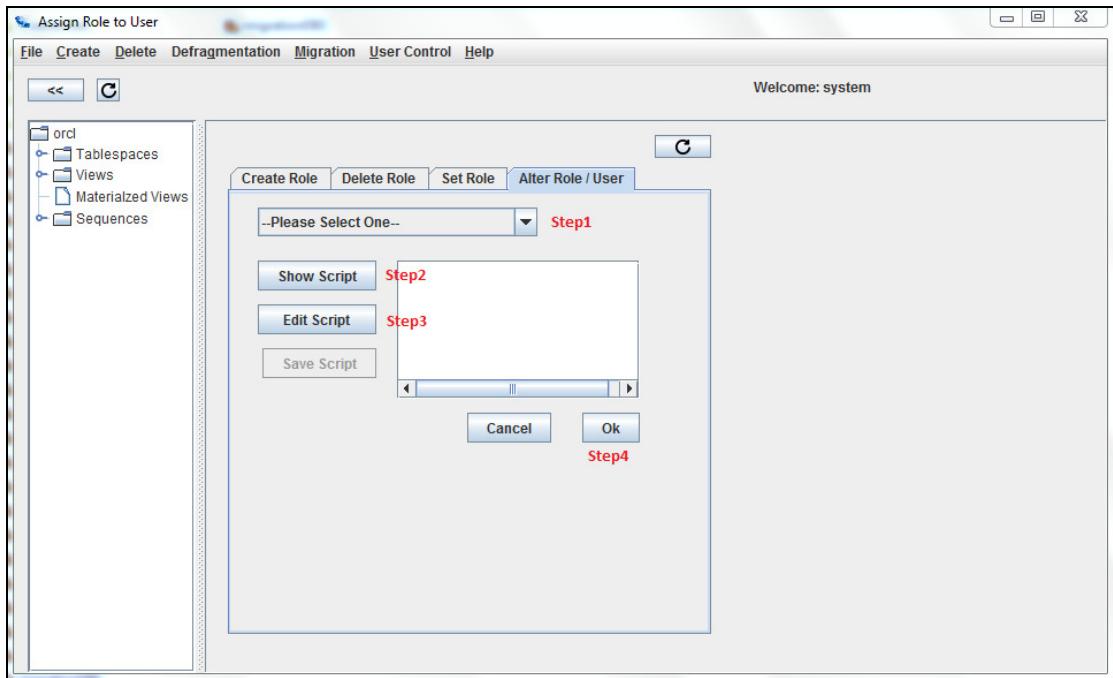


Figure 41: Alter User/Role

## 10.4 Grant Privileges

This function allow user to grant privileges to other user. To Grant the privileges to other user, follow the step below and refer to Figure 42-

**Step1:** Go to **User Control->GrantPrivilege**. Select one option and fill up information.

**Step2:** Select the **privileges** from table.

**Step3:** If you want to see script click on '**Show Script**' (option)

**Step4:** If you modify that script, click on '**Edit Script**' (option)

**Step5:** Click '**OK**'.

## User Manual for Crystal Cockpit

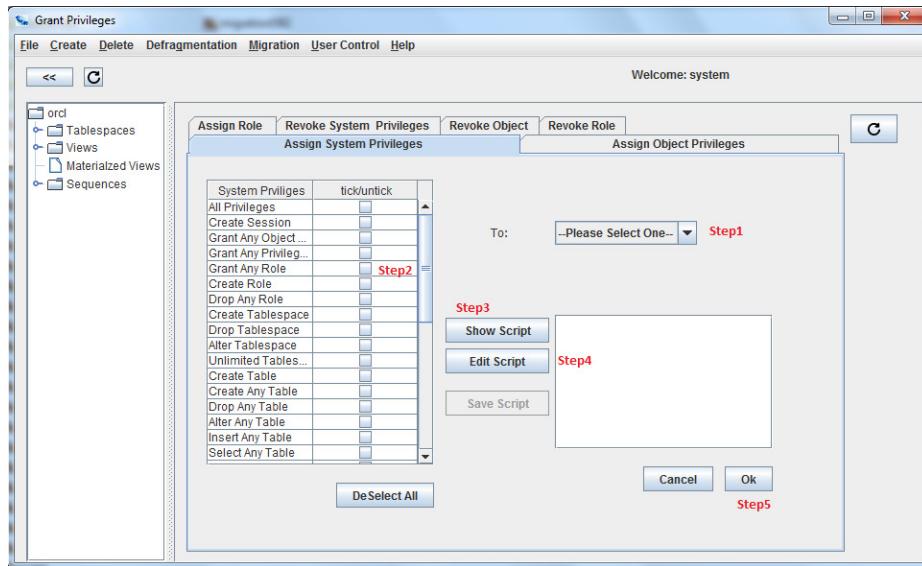


Figure 42: Grant Privileges

### 10.5 Manage Password

This function allow user to change their password. To change the password, follow the step below and refer to Figure 43-

**Step1:** Go to User Control->Manage Password. Key in **old password**.

**Step2:** Key in new Password and confirm password. You can see the checking bar at the side of password to check your **password level**.

**Step3:** Click '**OK**'.

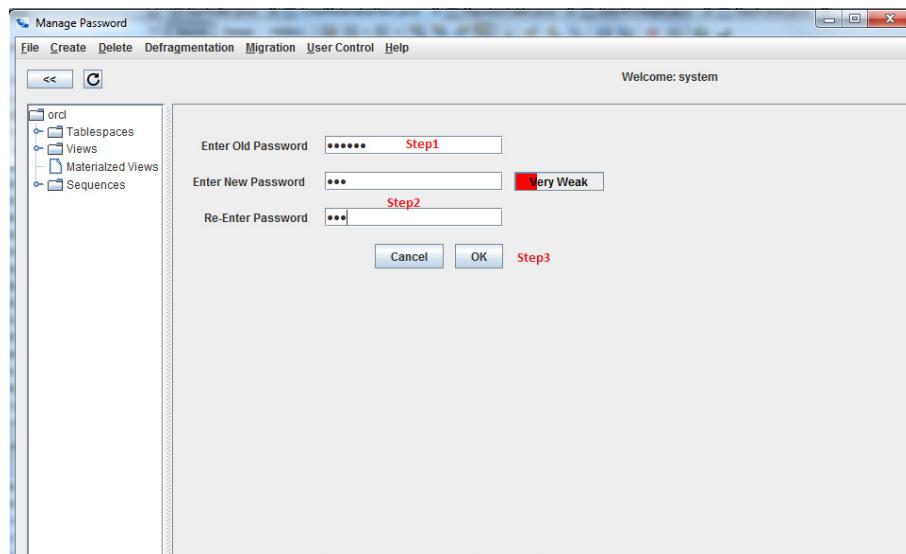


Figure 43: Change Password

## **11 Help**

This menu provides the information to user. The functions are:

- Online Docs and Support
- Check for Update and
- About

### ***11.1 Online Docs and Support***

Go to **Help -> Online Docs and Support**. From this function user can download documents like Technical Manual, User Manual and Installation guide.

### ***11.2 Check for Update***

Go to **Help -> Check For Update**. From this function user can check updated version of Crystal Cockpit.

### ***11.3 About***

Go to **Help -> About**. From this function user can see about Crystal Cockpit.