Oracle® Banking Corporate Lending

Development Workbench – Administration

Release 14.8.1.0.0
G43511-01
October 2025

Oracle Banking Corporate Lending Development Workbench – Administration, Release 14.8.1.0.0

G43511-01

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Preface

This topic contains the following sub-topics:

Purpose

This document describes the Administration options available in Oracle FLEXCUBE Development Workbench for Universal Banking and guides the developers on the usage of this feature.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table 1 Acronyms and Abbreviations

Acronyms	Definition
DDL	Data Definition Language
FCUBS	Oracle FLEXCUBE Universal Banking Solution
JDK	Java Development Kit
JNDC	Java Naming and Directory Interface
OBCL	Oracle Banking Corporate Lending
ODT	Oracle Development Tool
SOA	Service-Oriented Architecture

Audience

This document is intended for Oracle FLEXCUBE Universal Banking Application developers/ users that use Development Workbench to develop various Oracle FLEXCUBE Universal

Banking components. To use this manual, the user needs a conceptual and working knowledge of the below:

Table 2 Proficiency Details

Proficiency	Resources
Oracle FLEXCUBE Universal Banking Technical Architecture	Training programs from Oracle Financial Software Services.
Working knowledge of Web based applications	Self Acquired
Working knowledge of Oracle Database	Oracle Documentations

Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at Critical Patches, Security Alerts and Bulletins. All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by Oracle Software Security Assurance.

Conventions

The following text conventions are used in this document:

Table 3 Conventions

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

Related Resources

For more information on any related features, refer to the following documents:

- Open Development Tool Installation
- Development Workbench – Getting Started
- Development Workbench - Screen Development II

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

1

Administration

This topic provides an overview of administration screens.

Workbench segregates the developmental activity of the developers into different releases. This allows the tool to track the changes done in each release and helps the developer to follow an extensible approach to development.

Administration screens of the development Workbench are as follows:

1. Release Creation.
2. Environment Creation.
3. User Creation.

This topic contains the following sub-topic:

- Login in to Development Workbench
  This topic provides systematic instructions to log in to the Workbench for the first time.

1.1 Login in to Development Workbench

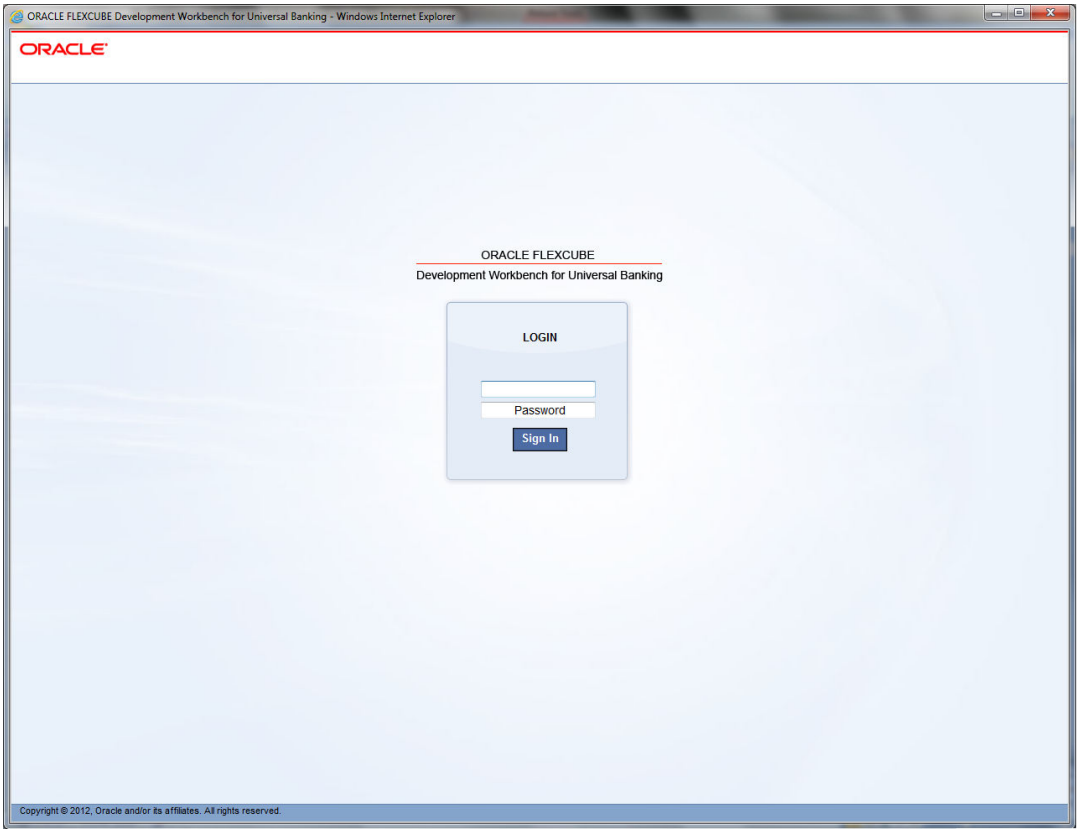
This topic provides systematic instructions to log in to the Workbench for the first time.

1. After successful installation, log in to the Workbench by using the following credentials:

   User Name: **RADTOOL**

   Password: **RADTOOL**

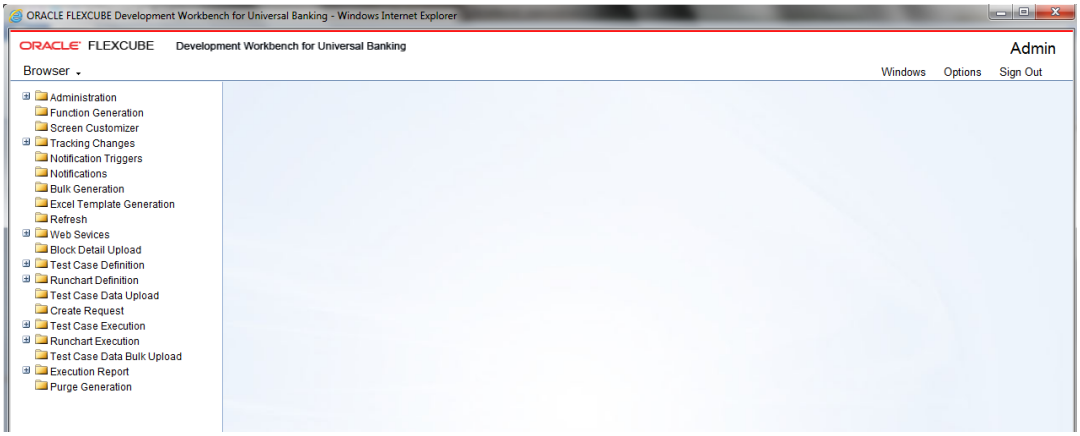
Figure 1-1 Development Workbench - Login



The **RADTOOL** user is initially mapped to Default Release. This user is only for the initial login to the tool. Developers should not use this user to design a new screen or to modify an existing screen.

The **Development Workbench – Landing Page** displays

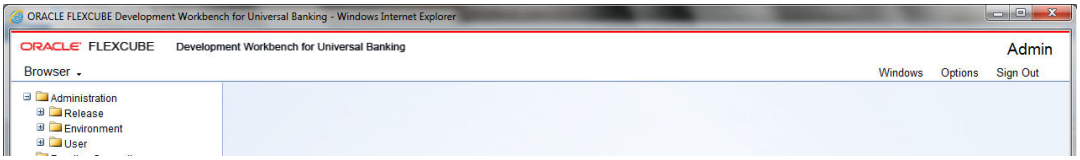
Figure 1-2 Development Workbench – Landing Page



2. Click on the **Administration** node on the left side under the **Browser**.

   Under the **Administration** node, **Release**, **Environment** and **User** options are displayed.

Figure 1-3 Options under Administration



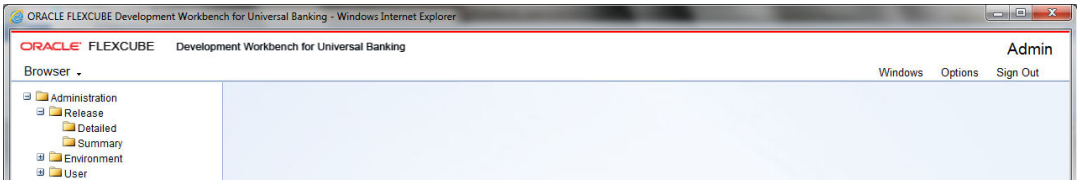
2 Release

This topic provides systematic instructions to create a new release.

1. Expand the **Release** node under **Administration**.

   The **Detailed** and **Summary** options displays in the **Development Workbench for Universal Banking** screen.

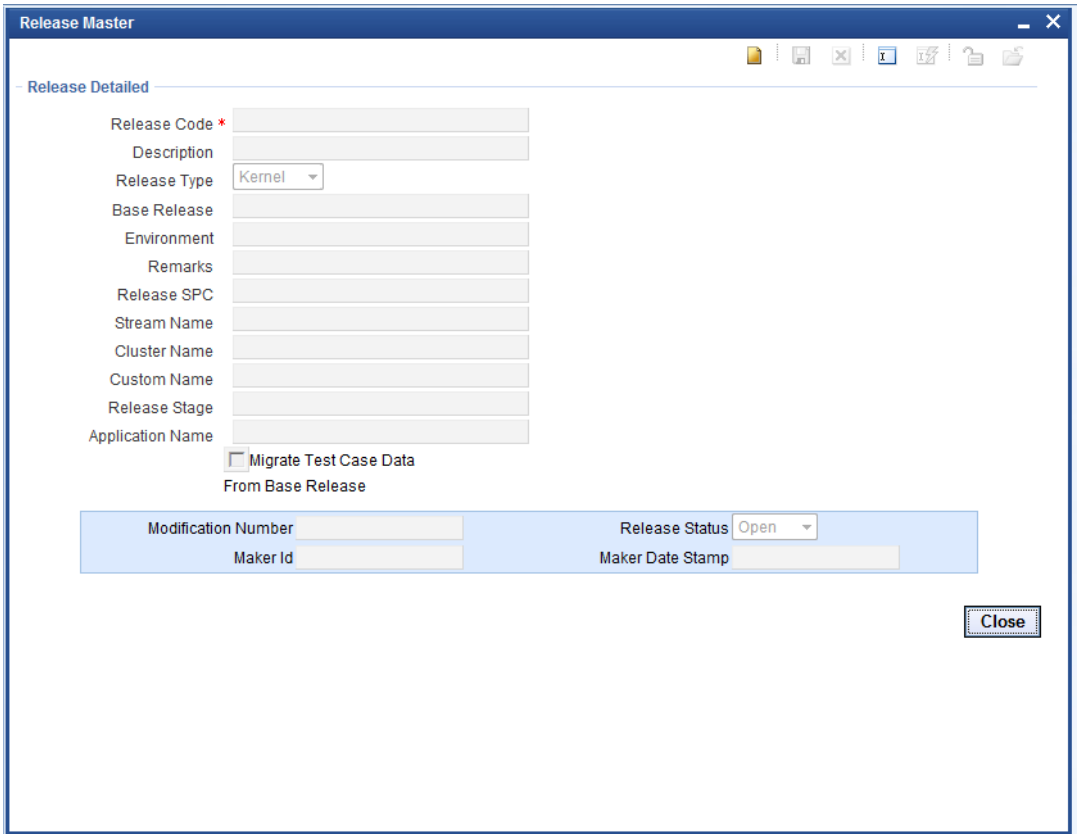
Figure 2-1 Option under Release



2. Click the **Detailed** option to create a new release.

   The **Release Master** screen displays.

Figure 2-2 Release Master



This topic contains the following sub-topics:

- Release Detailed
  This topic provides systematic instructions to create a new release, Query the release, and Modify the release .
- Release Summary
  This topic provides instructions to get the details of all releases already existing in Workbench.

2.1 Release Detailed

This topic provides systematic instructions to create a new release, Query the release, and Modify the release .

1. On the **Release Master** screen, specify the following details:

Table 2-1 Release Master - Field Description

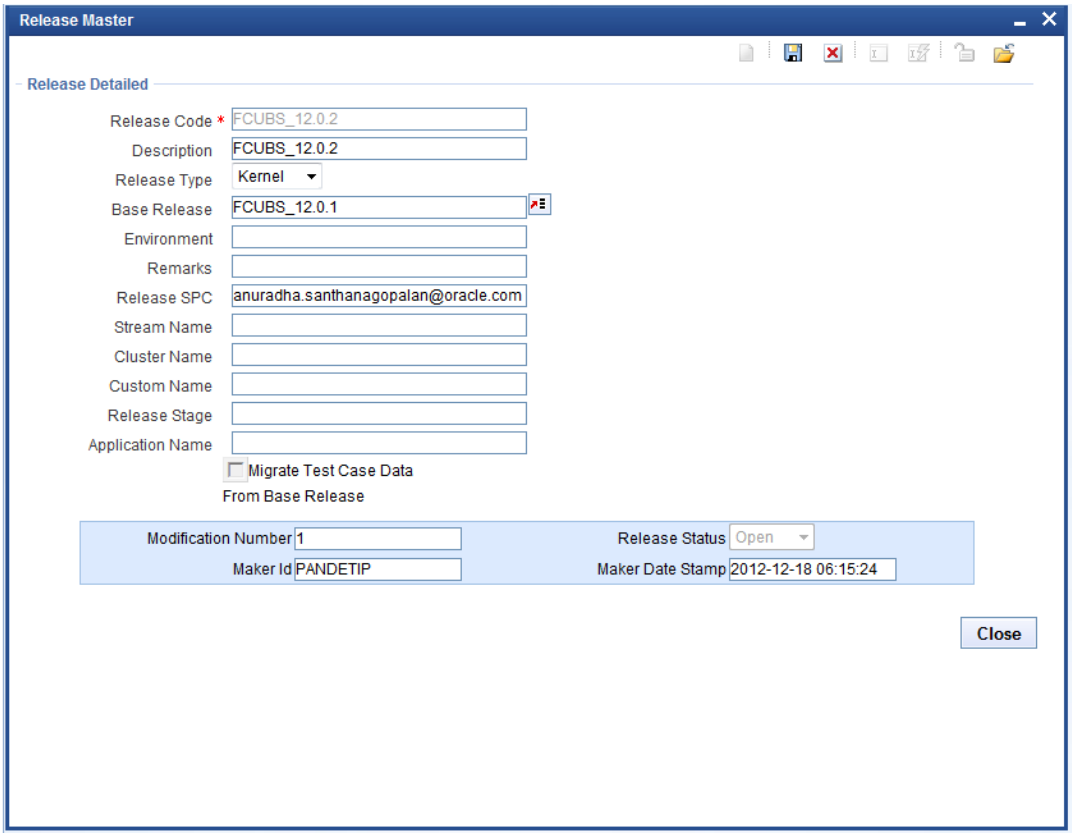
Field	Description
Release Code	Release code/Project Code is a mandatory field. It should follow the FLEXCUBE naming convention. For Example: FC_UBS_V.UM_11.4.US.1.0.0.0 **Note:** The fields which are marked with asterisk red are mandatory.
Description	A meaningful description of release can be provided here.
Release Type	Select the release type. • **Kernel**: This option should be used by the kernel team only. • **Cluster**: A regional development team has to select this option. • **Custom**: Either offshore development team for client changes or development in Onsite has to select this option. **Note:** The fields which are marked with asterisk red are mandatory.
Release Number	Specifythe version number of the FLEXCUBE development.
Base Release	Select base release from the list of values. All available releases will be shown in the List of values. The base release is of significance for migrating test case data. Example: If the developer is working on customization on top of the 11.3EU Cluster pack, the base release will be 11.3EU.
Environment	Select default environment.
Remarks	Specifyif any additional info is required regarding Release. This is the information field.
Release SPC	This would be used for in-house developments. This is not required for custom developments.
Stream Name	The stream name should be the same as the DDL stream name. This is not applicable if DDL integration is not required.
Cluster Name	This is an information field. If the release is a Cluster pack, the name of the Cluster release can be provided here, the same name as maintained in DDL Tool.
Custom Name	This is an information field. If the release is a Customization, the name of the customer can be provided here, the same name as maintained in DDL Tool.
Release Stage	This is the information field. The release stage can be Development, SQA, ITR etc.
Application Name	Provide the name of the application for which the release is created. Example: FLEXCUBE, FCIS, FGL, etc.

Table 2-1 (Cont.) Release Master - Field Description

Field	Description
Migrate Test Case Data from Base Release	If the check box is checked,all the test case data from the base release will be migrated to the new release.

The below figure shows a sample entries for creating custom release done for MODEL BANK.

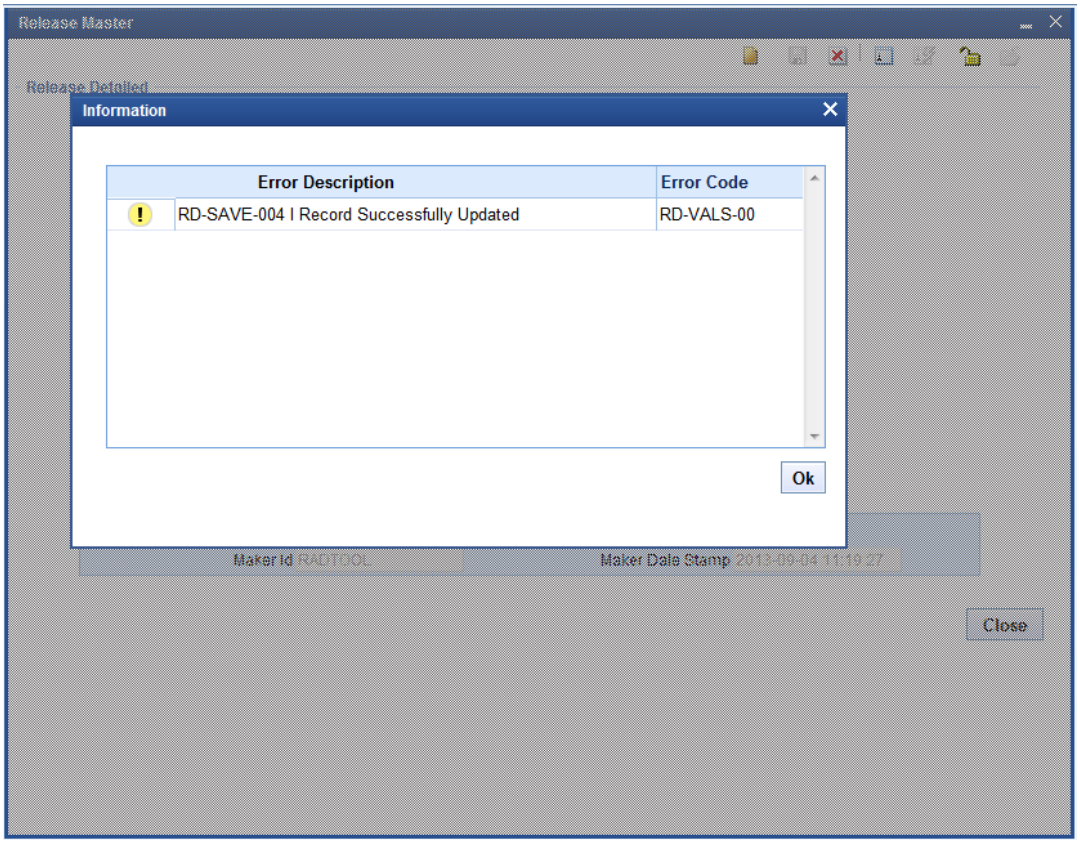
Figure 2-3 Create Release



2. Click the **Save** button to save the release.

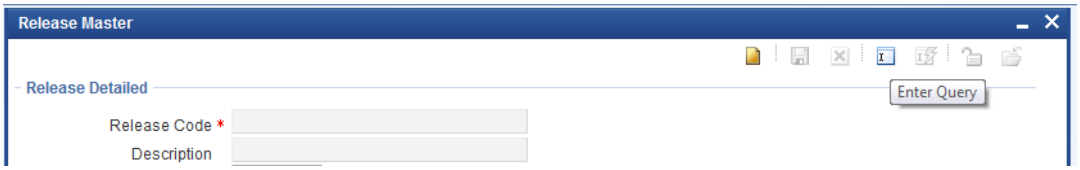
   The Information pop window displays.

Figure 2-4 Save Release



3. Click **OK**.
4. If user want to modify existing release details, click the **Enter Query** option.

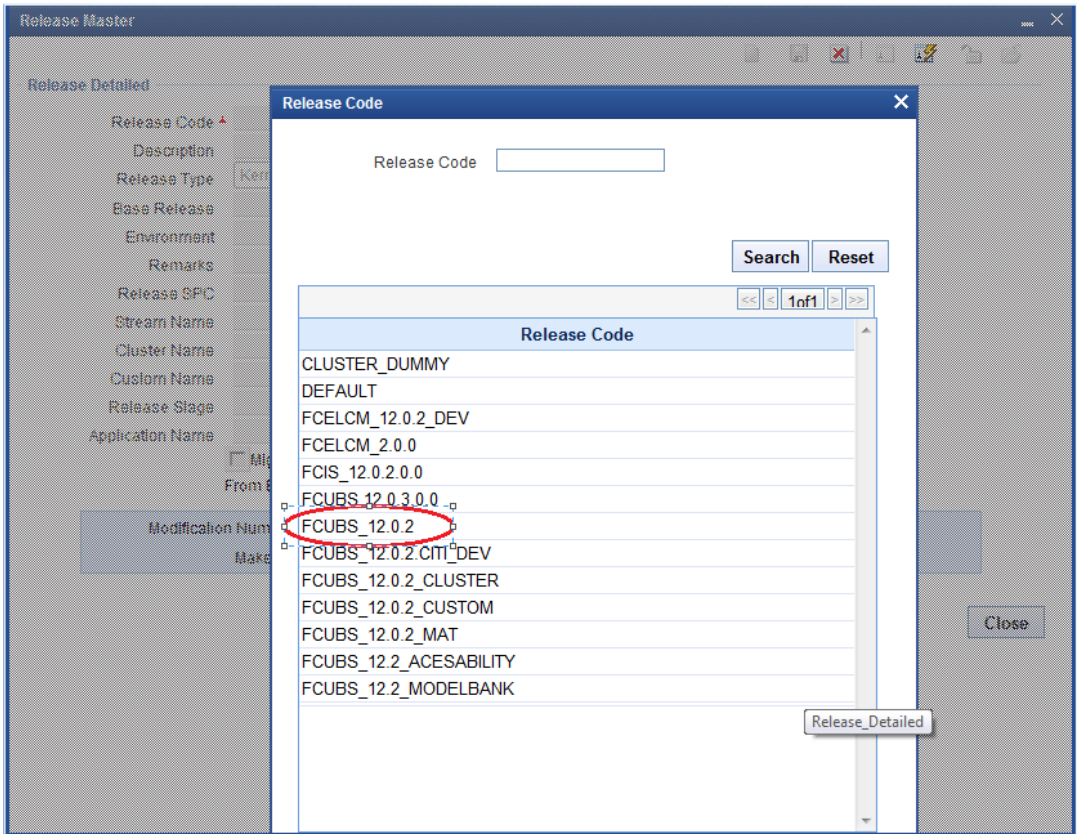
Figure 2-5 Enter Query



Release code field gets enabled.

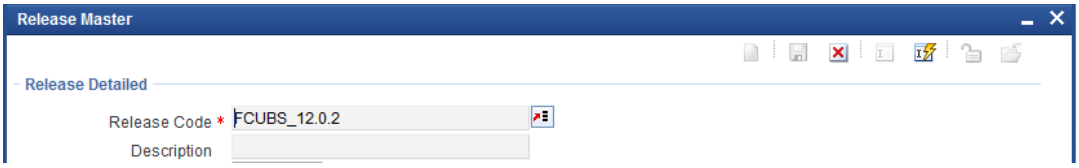
5. If release name known already, specify directly or select release code from provided List of values.

Figure 2-6 LOVs of Release Code



After selecting release code, the **Execute Query** button gets enabled.

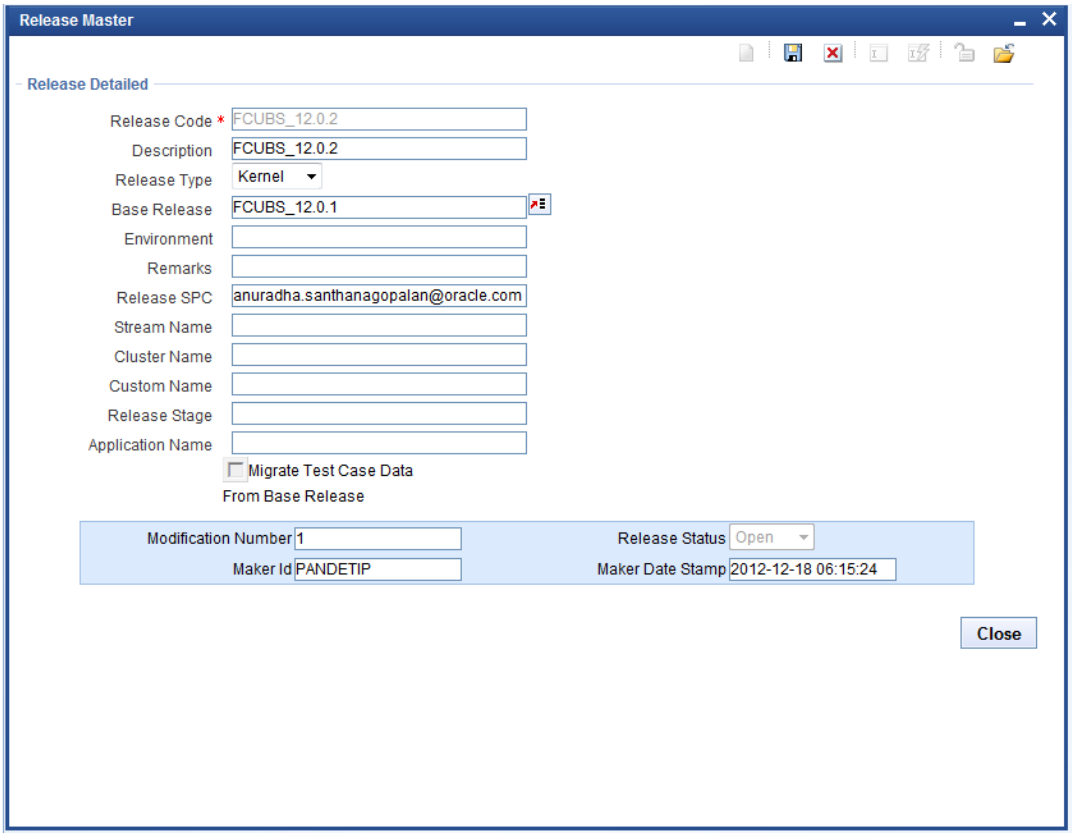
Figure 2-7 Execute Query



6. Click the **Execute Query** button.
7. To modify an existing release details, click the **Unlock** button.

   Except **Release Code**, all fields are enabled.

Figure 2-8 Unlock Release Details



8. Release administrator can update the required fields and click the **Save** button.

2.2 Release Summary

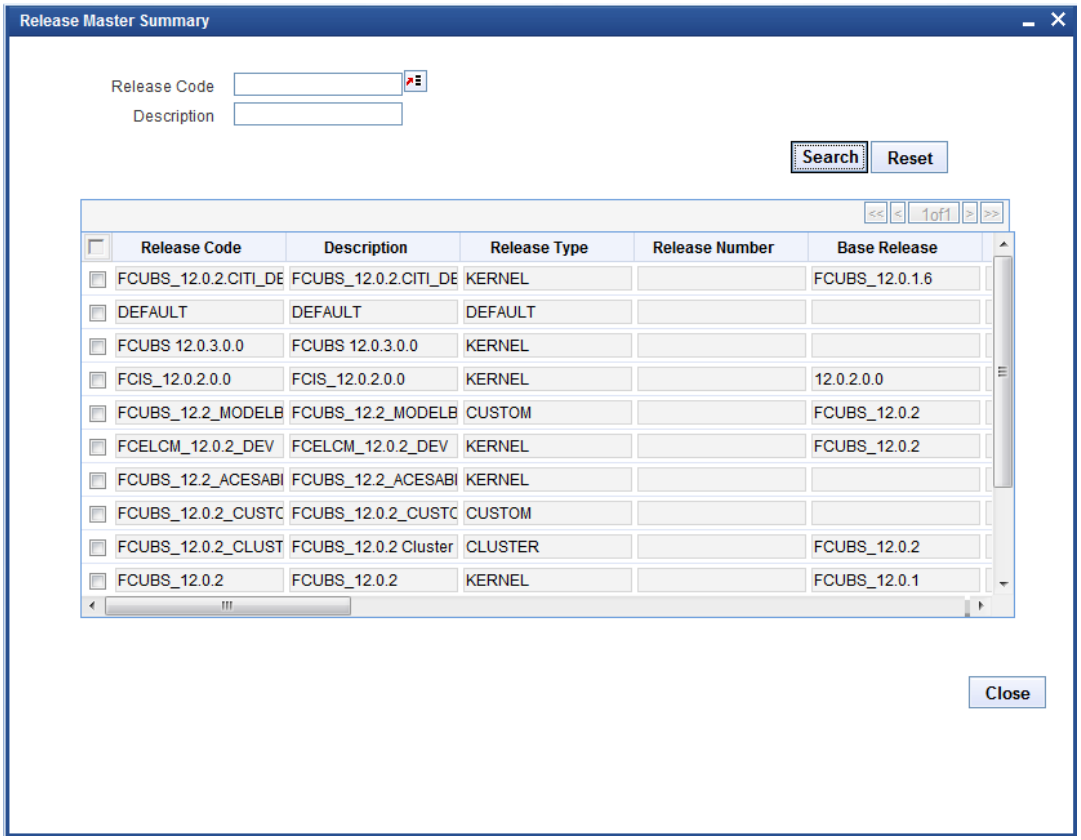
This topic provides instructions to get the details of all releases already existing in Workbench.

To get release summary, follow the steps below:

1. Click the **Execute query** button.

   All available releases are displayed in grid view on the **Release Master Summary** screen.

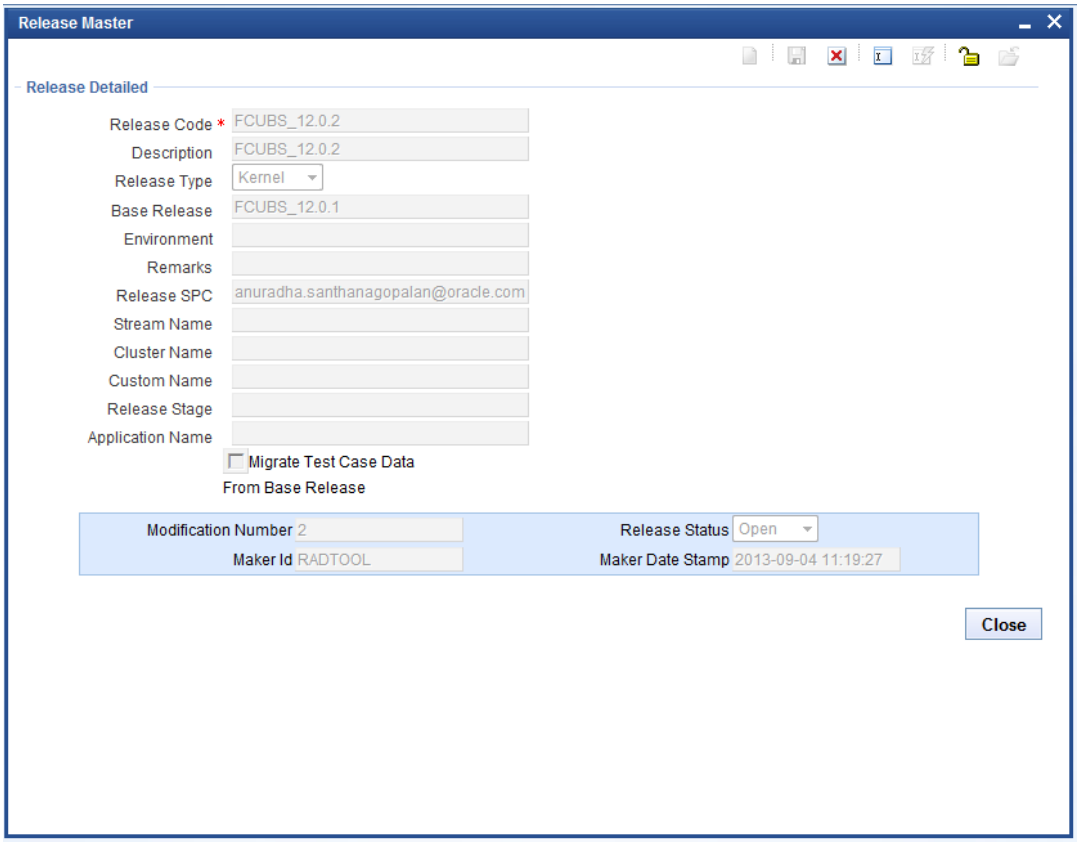
Figure 2-9 Release Master Summary



2. Double click on the particular release code.

   The **Release Master** screen displays with detailed view.

Figure 2-10 Release Master with Detailed View



3
Environment

This topic provides an overview of the Environment.

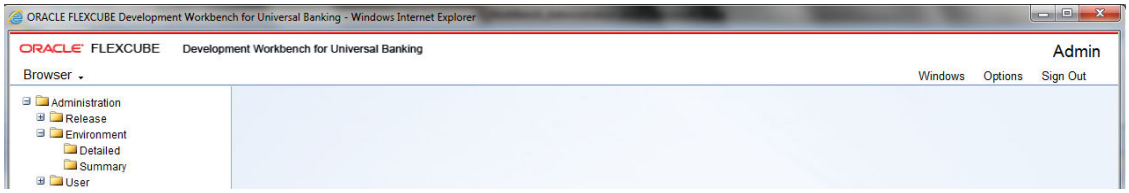
Workbench requires at least one environment for each release and the below environment details need to be maintained. Multiple environments can be mapped to a single release.

For instance, different environments can be maintained for different stages of the same release i.e. development, testing, etc.

> **Note**
>
> Workbench can interact with multiple FLEXCUBE links. Each environment correspond to a FLEXCUBE environment.

Click the **Detailed** option under Environment node.

Figure 3-1 Options under Environment



This topic contains the following sub-topics:

- Environment Detailed
  This topic provides systematic instructions to get the Environment details.
- Environment Summary
  This topic provides systematic instructions to get the details of all environments that already exist in Workbench.

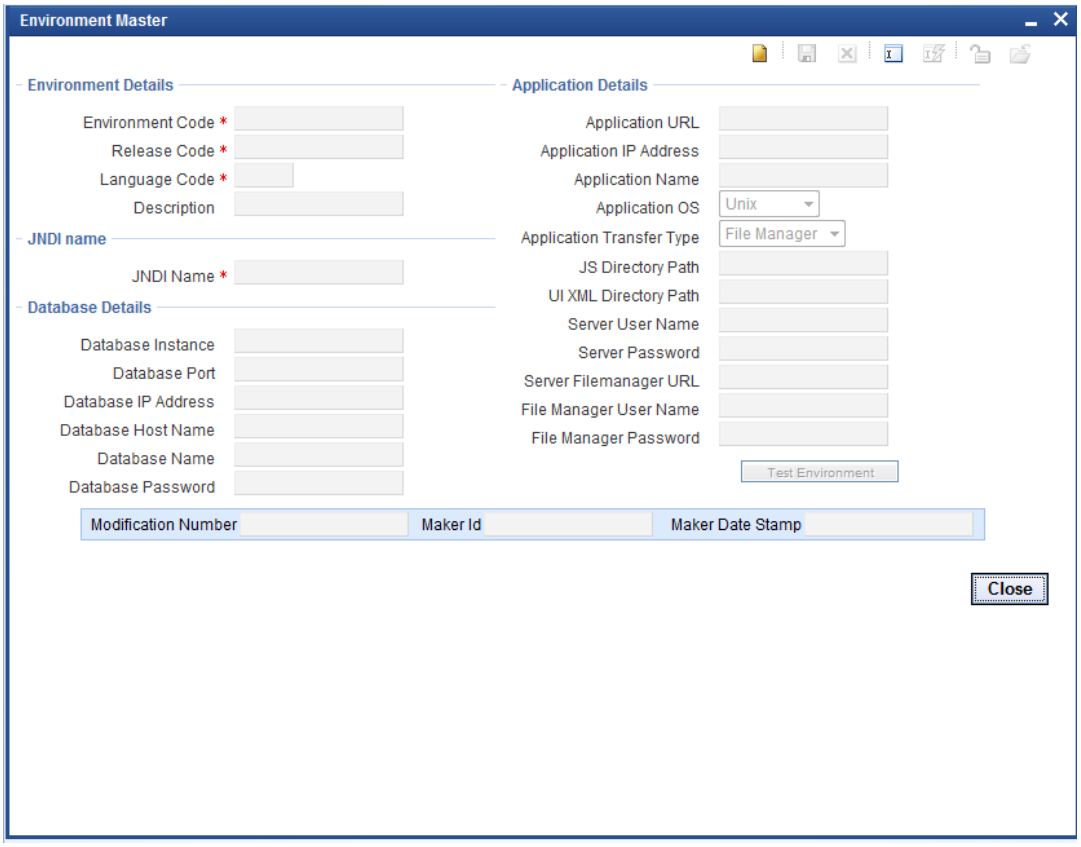
3.1 Environment Detailed

This topic provides systematic instructions to get the Environment details.

1. Click the Detailed node of environment.

   The **Environment Master** screen displays.

Figure 3-2 Environment Master



2. Click the **new** button.

   All fields are enabled to specify the details.

Table 3-1 Environment Details

Field	Description
Environment Code	The naming convention would be <release code>_ENV. For Example, FCUBS11.4_MODEL_BANK_ENV **Note:** The fields which are marked in asterisk red are mandatory fields.
Release Code	Select the correct release code from the list of values. This field identifies the release to which the environment is mapped. **Note:** The fields which are marked in asterisk red are mandatory fields.
Language Code	Select the required language from LOV. This field is very important in environment creation as screen XML will be generated based on the language set up at the environment level. List of values fetches the available languages from RDTM_LANGUAGE. Any new language, if required, has to be maintained in this table. **Note:** The fields which are marked in asterisk red are mandatory fields.
Description	Information field. Meaningful description of environment code.

3. Specify the following details under the **JNDI Name** section.

Table 3-2 JNDI Name

Field	Description
JNDI Name	Specify valid JNDI name. This is mandatory. It should match with the JNDI name used while creation of Data Source for FLEXCUBE in the app server. It's case-sensitive. Connection to the FLEXCUBE schema is established from Workbench using the JNDI name maintained in the environment definition. If the JNDI name does not match the database connection to the FLEXCUBE schema won't happen. For instance: • If the server is Apache Tomcat, JNDI provided in environment creation should match with JNDI provided in **server.xml** and **context.xml**. • If the server is web logic, JNDI provided in environment creation should match with JNDI of the data source created.

Dynamic Registering of Data Source with JNDI: Dynamic Data Source Registering feature avoids the need of creating Data Source manually in the Application Server. To enable this feature, the Provider URL value should be provided during installation. A new data source will be added to the JNDI context using the DataBase details provided while creating the Environment (explained below).

An Example of properties to be specified in **odt.properties** for WebLogic Server is given below *INITIAL_CONTEXT_FACTORY=weblogic.jndi.WLInitialContextFactory PROVIDER_URL=t3://localhost:7101*

> **Note**
>
> This feature won't be available if the JNDI context is read only. For Example: Apache tomcat Server.

4. Specify the following details under the **Database Details** section.

   The FLEXCUBE database server details of the environment can be provided here. These are information fields. The database connection is achieved through JNDI maintained and not with help of data provided in these fields unless dynamic registering of the Data Source feature is available.

Table 3-3 Data Base Details

Field	Description
Data Base Instance	Specify the valid database instance name.
Data Base Port	Specify database port number.
Data Base IP Address	Specify database IP address.
Data Base Host Name	Specify the hostname or IP address of the database.
Data Base Name	Specify schema name.
Data Base password	Specify schema password.

If dynamic registering of Data Source feature is not available then the following should be taken care:

a. If the password of the FLEXCUBE schema is changed, merely changing the password in the Workbench environment wouldn't be of any help. The developer will have to update the data source in the server with the latest credentials.

b. If the JNDI of the data source is changed, the Application server has also to be updated with the same.

5. Specify the following details under the **Application Details** section.

Table 3-4 Application Details

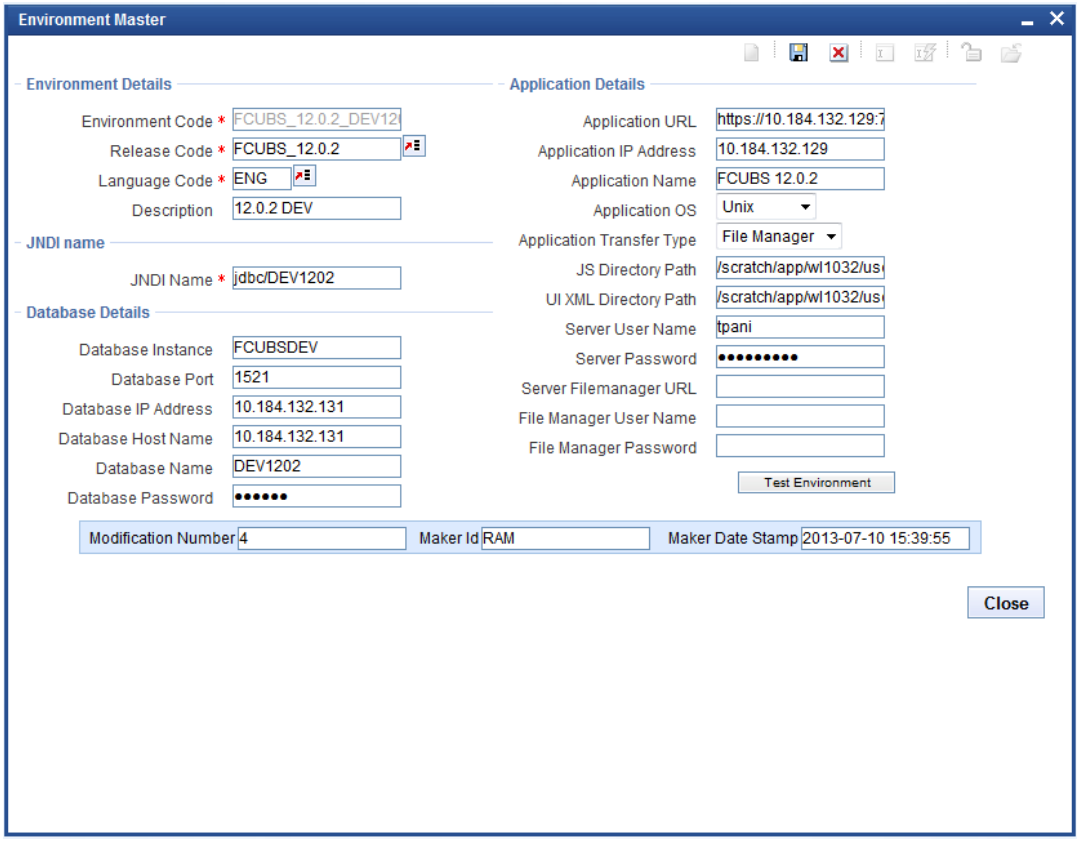
Field	Description
Application URL	Specify valid FLEXCUBE URL and this will be launched from Workbench.
Application IP Address	Specify the application IP address.
Application Name	Specify application name. This is the information field.
Application Operating System	Select the operating system on which FLEXCUBE is running; two options are provided: Windows or UNIX.
Application transfer Type	If the user requires the Deploy option (Refer to the Development WorkBench - Screen Development-II document to get more details about deploy option), file transfer type must be selected. File Transfer type depends on the operating system of the application server in which FLEXCUBE is hosted. • **Windows**: File manager/File • **Copy UNIX**: File Manager • **File Copy**: Directly copies files into the specified location. • **File Manager**: It is a Servlet (please check the File manager section in the appendix to get more details) running in an app server where FLEXCUBE is deployed. This Servlet has to be deployed in the same server where FLEXCUBE is hosted for copying files from the Workbench server. This has to be selected if the operating system is UNIX. Refer Appendix section for further details on File Manager.
JS Directory Path	Specify the shared path of JavaScript files in the FLEXCUBE server. This is also required for deploy feature of Workbench. All the system JavaScript files generated will be copied to the path mentioned in this field. For Example: • **Windows**: *10.184.46.209**js*\\ (Each forward slash should be appended by one more). • **UNIX**: */oraint1/web1034/Oracle/Middleware/user_projects/domains/FCUBSDevDomain/servers/FC114EXT/tmp/_WL_user/FC114EXT/eiq6wn/war/Script/JS/* (It should contain only single backward slash). **Note:** Slash should be provided in the end of the path provided. Make sure write permission is provided on this folder.
UIXML Directory Path	Specify shared path of UIXML (language XML) files. This is also required for the deploy feature of WORKBENCH. All the system JavaScript files generated will be copied to the path mentioned in this field. For Example: • **Windows**: *10.184.46.209**eng*\\ • **UNIX**: */oraint1/web1034/Oracle/Middleware/user_projects/domains/FCUBSDevDomain/servers/FC114EXT/tmp/_WL_user/FC114EXT/eiq6wn/war/UIXML/ENG/*. **Note:** Slash should be provided in the end of the path provided. Make sure write permission is provided on this folder. If Transfer Type is File manager then the below details have to be provided mandatorily.
Server User Name	Specify application server user name.

Table 3-4 (Cont.) Application Details

Field	Description
Serve Password	Specify application server password.
File Manager URL	Specify file manager url as shown below. Format: *http://<ipaddress>:<portnumber>/FileManager/FileManageServlet* For Example: *http://10.184.74.143:7755/FileManager/FileManageServlet*
File Manager User Name	Specify a user name. This is an optional field.
File Manager Password	Specify password. This is an optional field.

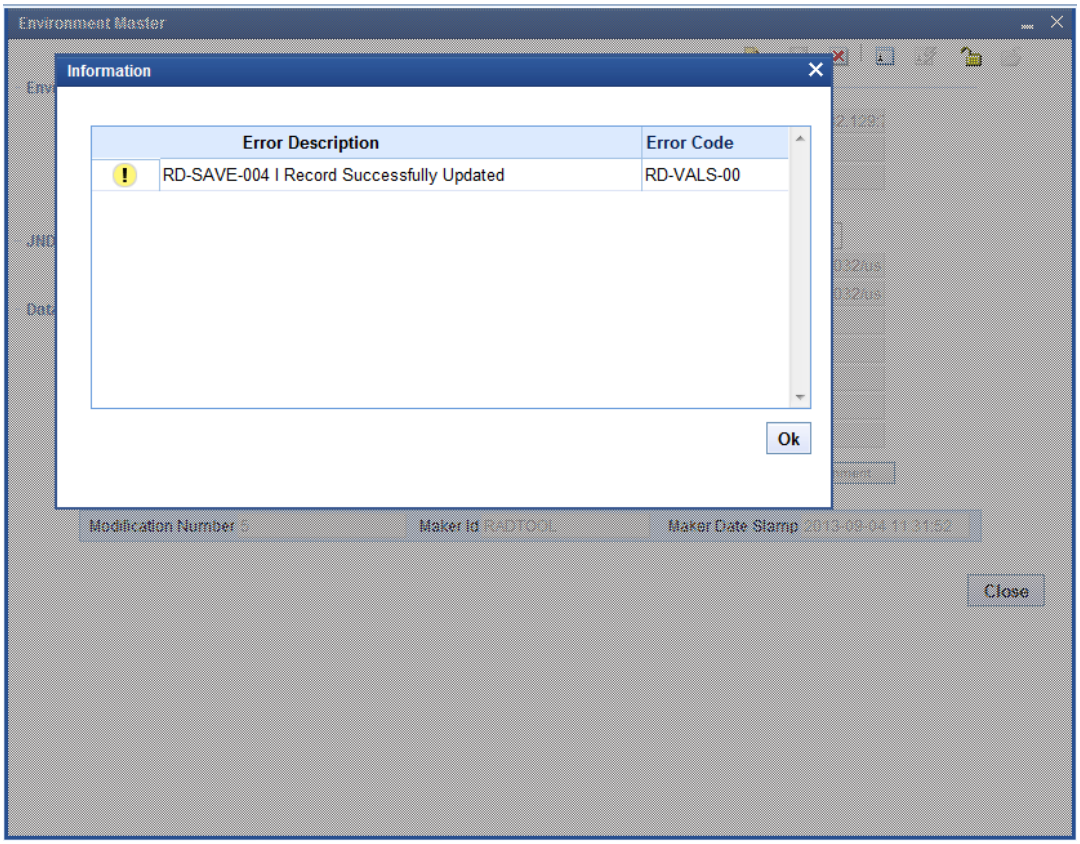
The below figure shows a sample environment with data input.

Figure 3-3 Create new Environemnt



6. Click Save to save the environment.

Figure 3-4 Information



7. Click **OK** to close the pop-up window.
8. To modify the existing environment details, select an **Environment code** from **Environment Master Summary** screen and click the **Enter Query** button.
9. If release name known already, specify directly or select release code from provided List of values.

   After selecting release code, the **Execute Query** button gets enabled.
10. Click the **Execute Query** button.
11. Click the **Unlock** button.

    Except **Environment Code**, all fields are enabled.
12. Modify the required fields and click the **Save** button.

3.2 Environment Summary

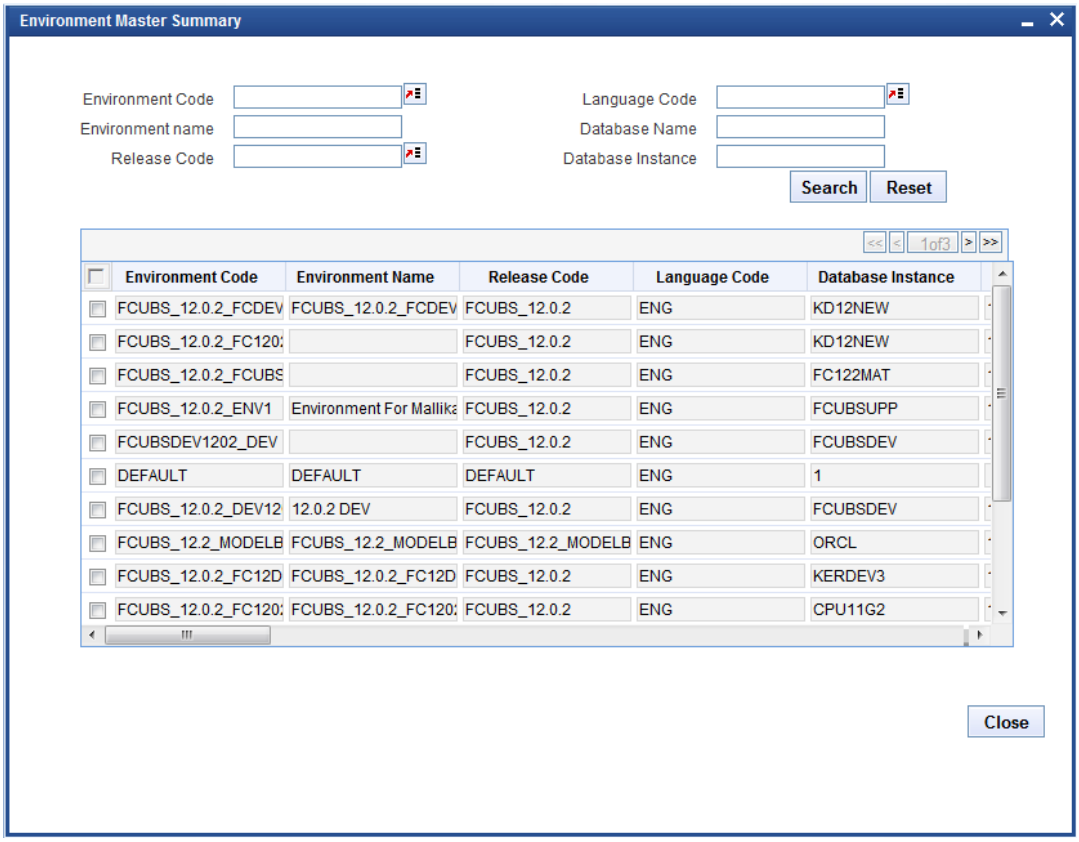
This topic provides systematic instructions to get the details of all environments that already exist in Workbench.

To get environment summary, follow the steps below:

1. Click on the **Execute query** button.

   All available environment are displayed in grid view on the **Environment Master Summary** screen.

Figure 3-5 Environment Master Summary



2. Double click on the particular environment code.

   The **Environment Master** screen displays with detailed view.

4 User

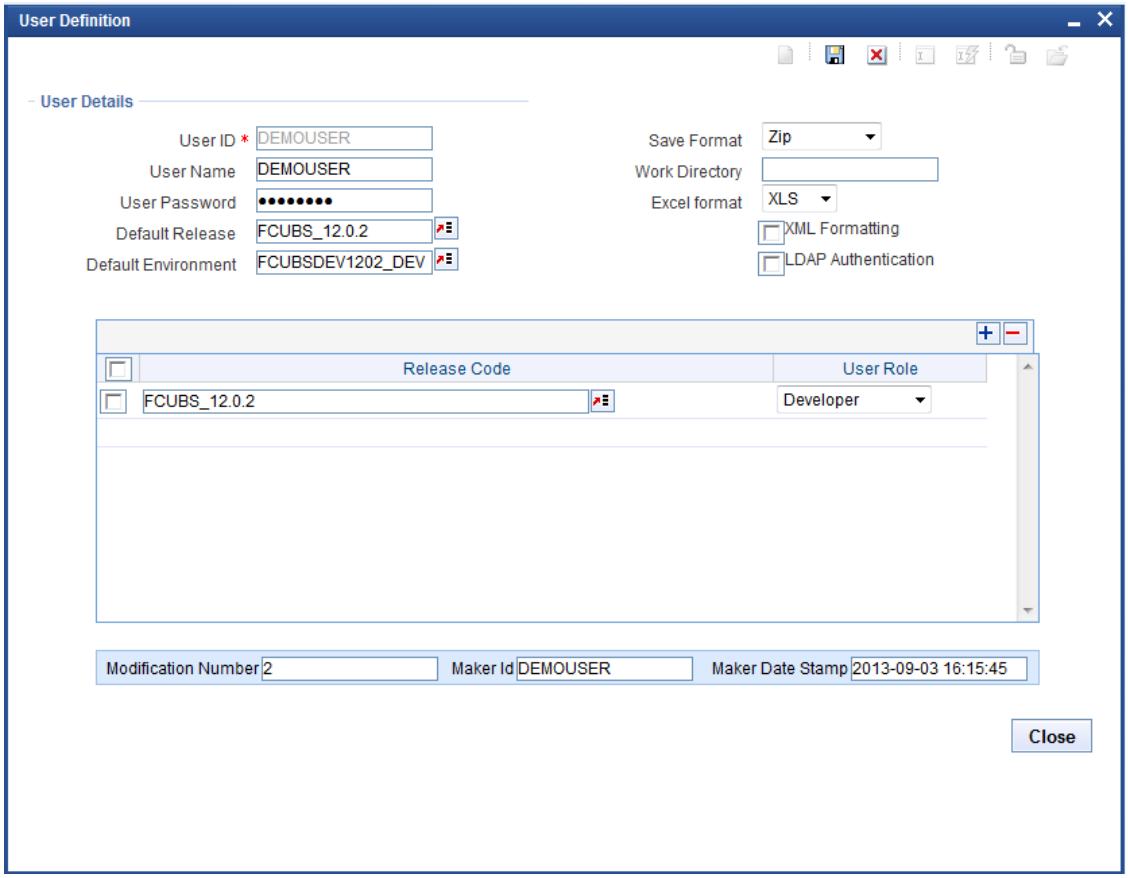
The user screen is used for creating a new user for Workbench. Only the Administrator or Release Administrator can create new users. Releases can be attached to the particular user and roles for the user on the attached release code can also be maintained.

This topic contains the following sub-topics:

- User Detailed
  This topic provides field descriptions for the User Definition screen.
- User Summary
  This topic provides instructions to get details of all users that already exist in the Workbench.

4.1 User Detailed

This topic provides field descriptions for the User Definition screen.



For more information, refer to the fields description table.

Table 4-1 User Definition- Field Descriptions

Field	Description
User ID	This is the unique ID given to each user, used to login into Workbench.
User Name	Specify User Name.
User Password	Specify the password to log in to Workbench.
Default Release	Select Release code from the list of values. This will be the release to which users will be mapped on logging in to the Tool. If the user mapped to more than one release, the user can switch between the releases using the User Preferences screen. Refer to the *Development Workbench – Getting Started* document for further details on User Preferences
Default Environment	Select the corresponding environment code created for the selected default release. If not selected, the user can set environment in the User Preferences screen after logging in.
Save Format	The user can access the generated files in one of the following modes: • **Zip**: Files will be zipped and downloaded from the server to the client. This is the default save format. • **Server Path**: If the user has access to Server, then this mode can be selected. A path in Server has to be specified as Work Directory. Files will be copied to this path from where the user can pick them up. • **Client Path**: For ease of use for users of Older Versions, the earlier mode has also been retained. Here the user has to provide a path in his machine as the Work Directory. Note that this mode uses ActiveX Scripting; hence settings have to be set accordingly. This option is available only in Internet Explorer.
Work Directory	It is the path of the folder where the Workbench generated files will be saved. The user can specify the default directory where all his work should be saved. This field is applicable only if the Save format is either Server Path or Client Path. If the Save Format is Server Path, a path in the server has to be specified. If the Save Format is Client Path, a path in the client machine has to be specified. If the value is specified as **CURRENT_DIRECTORY** generated files will be saved to the location path specified at the design screen level.
Excel Format	This field defines the default extension of the excel files generated from the Tool. XLS and XLSX are the supported formats.
XML Formatting	Any XML file which is generated by Workbench will be formatted.
LDAP Authentication	This option can be selected if the user has to be authenticated against an LDAP. Password need not be specified in this case. LDAP properties have to be specified in the **odt.properties** file for availing of this feature. Sample LDAP Properties: • *LDAPSSLEn = N* • *LDAP_DOMAIN=MODELBANK.COM* • *LDAP_SERVER_URL=ldap://10.184.xx.xx.389*

This topic contains the following sub-topic:

- User Releases
  This topic provides systematic instructions to set up the User Releases.

4.1.1 User Releases

This topic provides systematic instructions to set up the User Releases.

A single user can be mapped to many releases. Make sure that the selected default release is available here. Along with release code, user role should be specified.

The tool has below User Roles for controlling the access rights:

- **Release Administrator**
- **Developer**
- **TCM User**
- **VERCON**

The user will be allowed to perform various tasks based on the Role assigned to the user. The same user can have a different role for different releases.

Table 4-2 User Roles

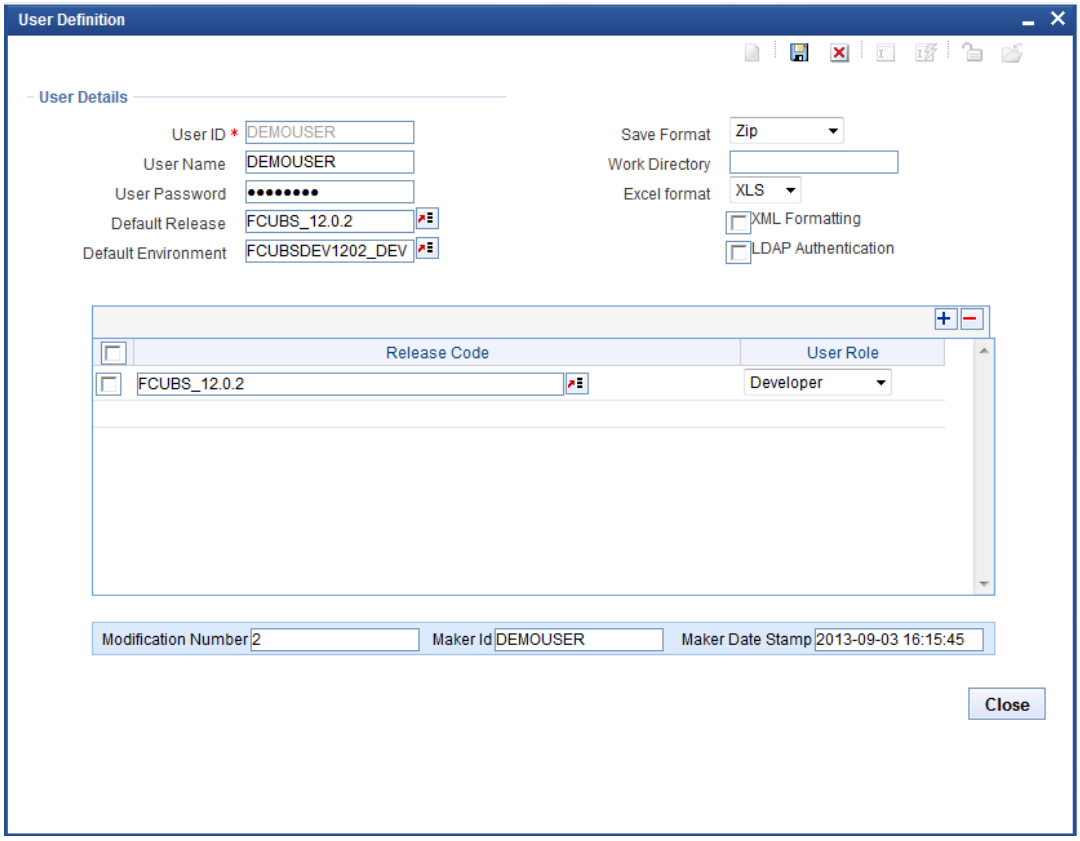
User Roles	Description
Release Administrator	• This role is meant for project leaders and team leaders and allows them to perform release administration activities. • Users with this role would be allowed to perform the below tasks. – Creation of Environment(s) for the Release – Creation of users – Provide access to the Release for required Users
Developer	• This Role is for Developers. Users mapped with this role would be able to access the Function development related features of the Workbench. • User will also be able to Switch between the releases and Environments using the **User Preferences** option.
TCM User	• This Role is meant for users of TCM. Users mapped with this role would be able to access only the TCM screens through the console. • The user will also be able to Switch between the releases and Environments using the **User Preferences** option.
VERCON	• This Role is meant for VERCON Team. Users mapped with this role would be able to access only the bulk gen operation through the console. • The user will also be able to Switch between the releases and Environments using the **User Preferences** option.

1. Create a new user by RADTOOL user.

   Use RADTOOL user to create only one user with a role as Release Administrator.

2. After adding one user as Release Administrator, many users can create by using the same user.

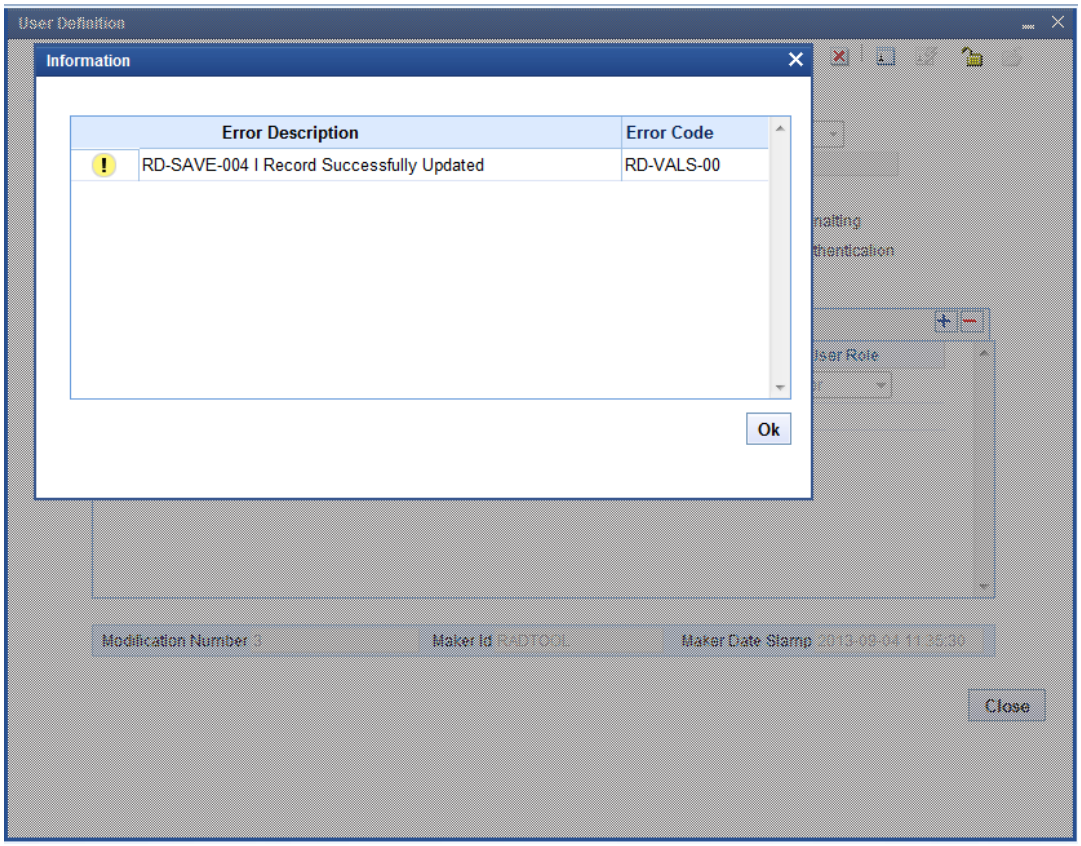
Figure 4-1 Create New User by RADTOOL User



3. After specifying required fields, click **Save**.

   The Information screen displays with the below message.

Figure 4-2 Save User Definition



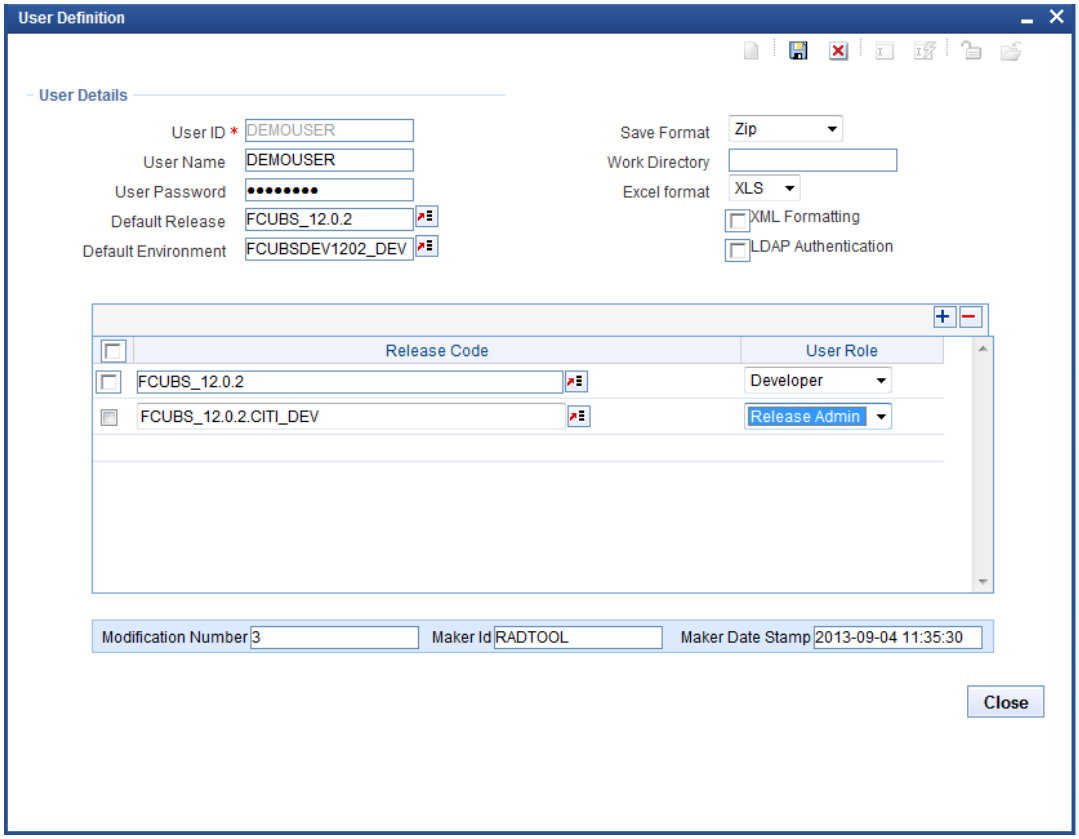
4. Click **OK**.
5. If user want to modify existing user details, launch **User Definition** screen and click the **Enter Query** option.

   User ID field gets enabled.
6. Specify the **User ID** and click the **Execute Query** button.

   The user details are retrieved.
7. Click the **Unlock** button.

   Except **User ID**, all other fields are enabled.

Figure 4-3 Modify User Details



8. Modify the required fields and click the **Save** button.

4.2 User Summary

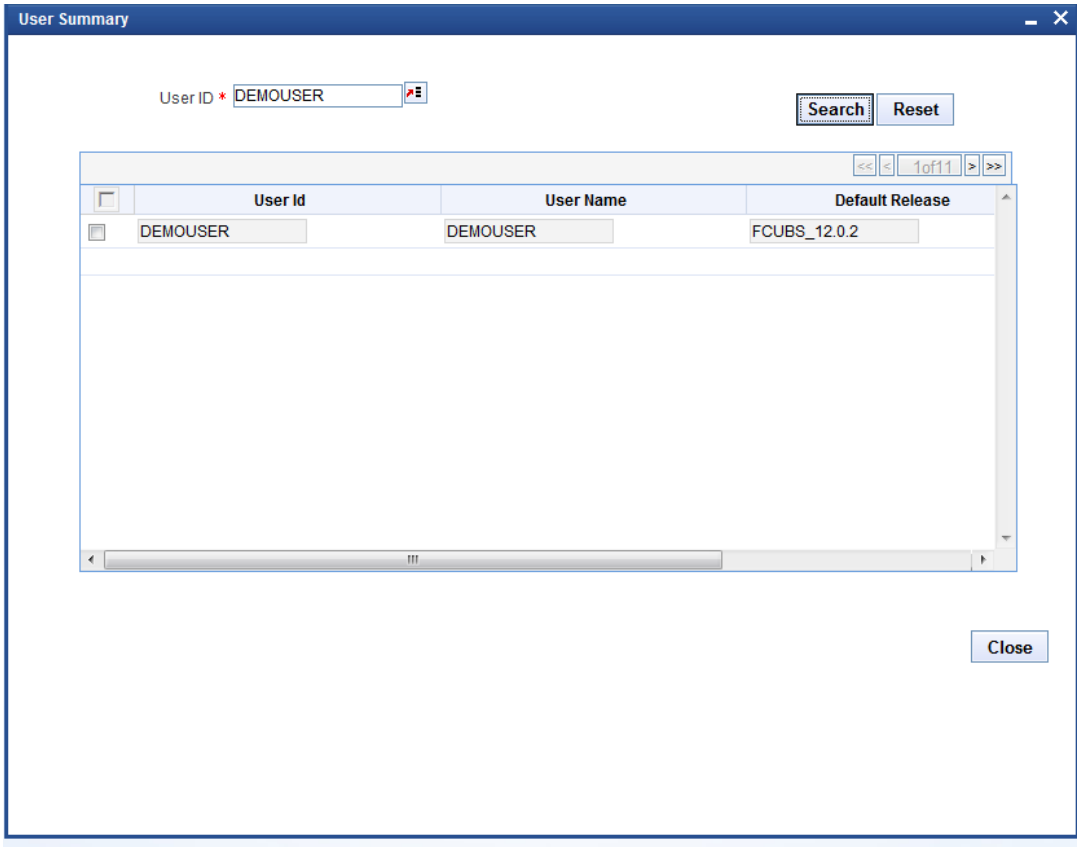
This topic provides instructions to get details of all users that already exist in the Workbench.

To get details of all users, follow the steps below:

1. Click the **Execute query** button.

   All available releases are displayed in grid view on the **User Summary** screen.

Figure 4-4 User Summary



2. Double click on the particular user to view the user details.

5

Key Points

This topic provides key points for the User and Environment creation.

1. Use the user name RADTOOL to create a new release.
2. In Release Creation, Release Code and Release type are mandatory.
3. In Environment creation Environment Code, Release Code, Language, and JNDI Name are mandatory.
4. In user creation provide User Id, Password, Default Release, Default environment, Save Format, Work Directory.
5. Default release selected should be available in the user releases multi-record grid. Otherwise, Login would be unsuccessful.

6
Appendix

This topic contains the following sub-topics:

- File Manager
  The topic describes the detailed information on file manager.
- File Manager Deployment
  The topic describes the detailed information on file manager deployment.
- Maintenance in Development Workbench
  The topic explains about maintain file manager in Development Workbench.

6.1 File Manager

The topic describes the detailed information on file manager.

File Manager Servlet will be shipped along with Workbench sources. This application helps in copying files from one machine to another. This application has to be deployed for successfully deploying files to the FLEXCUBE application server from Workbench.

6.2 File Manager Deployment

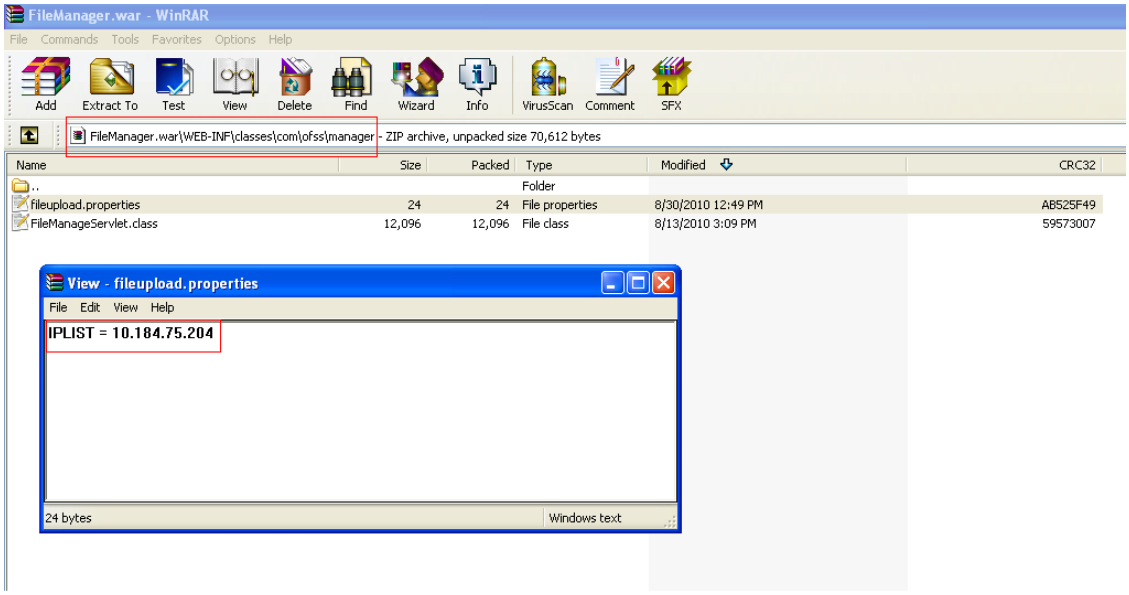
The topic describes the detailed information on file manager deployment.

File Manager has to be deployed in the server hosting FLEXCUBE (for which environment is created in Workbench). The IP address of the Workbench server has to be mentioned in the property file of File Manager.

- **Path**: `FileManager\WEB-INF\classes\com\ofss\manager`
- **File**: **fileupload.properties**

This file should have the IP address of the server where ODT is hosted. If more than one Workbench server is accessing the same FLEXCUBE application (or in the case of servers in a cluster), multiple IP addresses can be provided separated by semicolon.

Figure 6-1 ODT File Manager



After modifying the property file, the file manager should be deployed in the server where the application is hosted.

6.3 Maintenance in Development Workbench

The topic explains about maintain file manager in Development Workbench.

File Manager should be maintained in the environment (which links to the particular FLEXCUBE environment). File Manager URL has to be provided in the Server File Manager URL.

Format: http://<ipaddress>:<portnumber>/FileManager/FileManageServlet

Example: http://10.184.74.143:7755/FileManager/FileManageServlet

Figure 6-2 File Manger URL in Environment Master