Oracle® FLEXCUBE Investor Servicing

FCIS Database Setup

14.7.6.0.0

G30380-01

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Contents

Preface

Oracle FLEXCUBE Investor Servicing is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

Purpose

This manual is designed to help acquaint you with the installation of **Oracle FLEXCUBE Investor Servicing** application.

Audience

This manual is intended for the following User/User Roles:

Table 1 Users and Roles

Users	Roles
Implementation team	Implementation of Oracle FLEXCUBE Investor Servicing
Presales team	Install Oracle FLEXCUBE Investor Servicing for demo purpose
Bank personnel	Who installs Oracle FLEXCUBE Investor Servicing

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

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.

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.

Acronyms and Abbreviations

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

Table 2 Acronyms and Abbreviations

Abbreviation	Description
FCIS	Oracle FLEXCUBE Investor Servicing
OEM	Oracle Enterprise Manager

Table 2 (Cont.) Acronyms and Abbreviations

Abbreviation	Description
EMS	Electronic Messaging Service
EJB	Enterprise Java Bean
MDB	Message Driven Beans

1

Install Oracle FLEXCUBE Database

This topic describes the steps to install **Oracle FLEXCUBE** database.

Oracle FLEXCUBE database can be installed in one of the following methods.

- **From Shipment Media** – Load the Shipment Media objects into an empty schema using **Installer**.
- **Import full dump** – Import the **Oracle FLEXCUBE** objects into an empty schema using fulldump. This is a manual activity.

This topic contains the following sub-topics:

1.1 Create Schema from Shipment Media

This topic describes the steps to create the schema from the Shipment Media.

Source input for Installer for DB Setup
Database installation includes the provision of details of the schema to connect and the location of the source objects. The objects of the selected modules are compiled as explained below.

1. Copy the shipment media to a folder in the local system.

   Eg: C:\Installer\12.3.0.0.0_Exec\

2. Ensure that the folder containing the sources from shipment media has access rights for that user after copying the sources in the local system.

   It is not mandatory to copy the sources to local system. You may also directly refer the **Installer** to the shipment media.

3. Identify the list of schemas that needs to be deployed based on the installation type.

   The installation types include:

   - Installation without PENSION module
   - Installation includes PENSION module
   - PENSION Standalone module Setup

4. List the schema types to be included in the **Installation without PENSION module**.

   The below list of schema types needs to be executed:

   - **SMS**
   - **SP**
   - **LOB**
   - **REPORTS**

5. List the schema types to be included in the **Installation includes PENSION module**.

   The below list of schema types needs to be executed:

- **SMS**
- **SP**
- **LOB**
- **PENSION**
- **REPORTS**

6. List the schema types to be included in the **PENSION Standalone module Setup**.

   The below list of schema types needs to be executed:

   - **SMS**
   - **SP**
   - **PENSION**

7. Run the Cross Schema Scripts Utility post the DB Setup.

   Refer the topic *Cross Schema Scripts* for more details on running scripts.

8. Close the **Installer** and relaunch each DB operation for a schema.

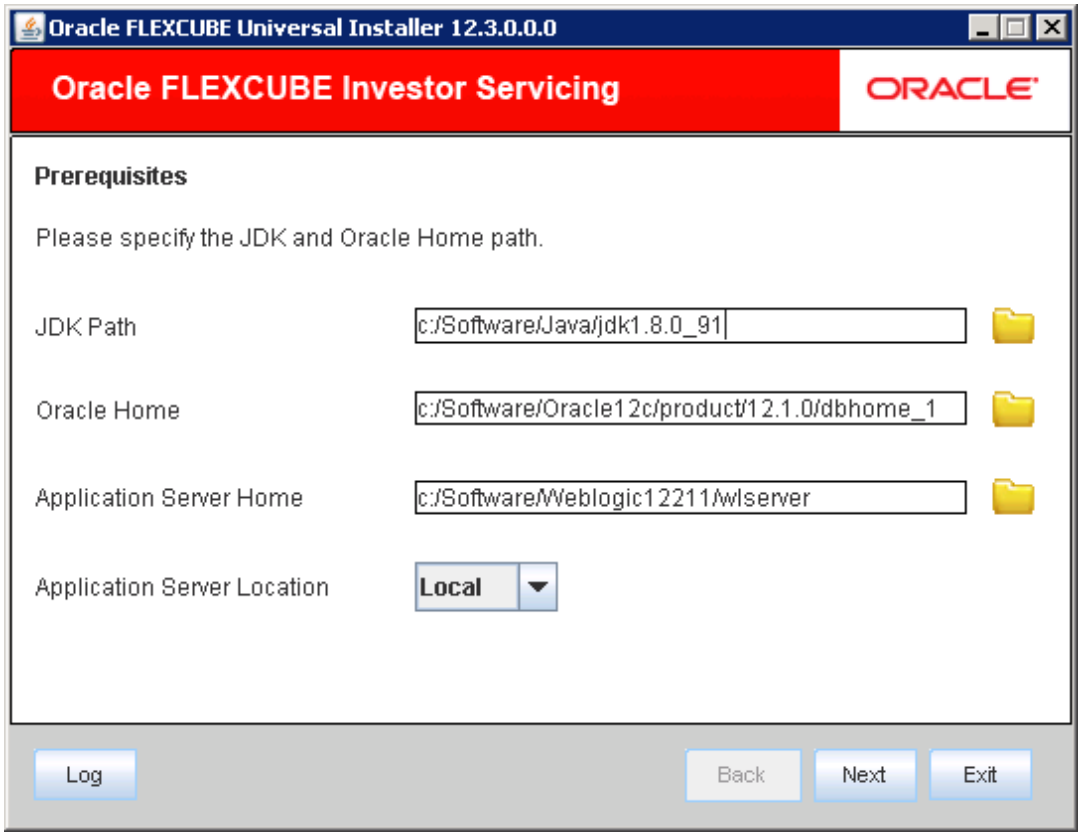
2
Compile Object

This topic describes the steps to compile objects from Shipment Media.

1. Start **Oracle FLEXCUBE Universal Installer**.

   The **Oracle FLEXCUBE Universal Installer** is displayed.

Figure 2-1 Oracle FLEXCUBE Universal Installer



2. On **Oracle FLEXCUBE Universal Installer** screen, enter the following details.

   Refer to the table for JDK and Oracle Home path.

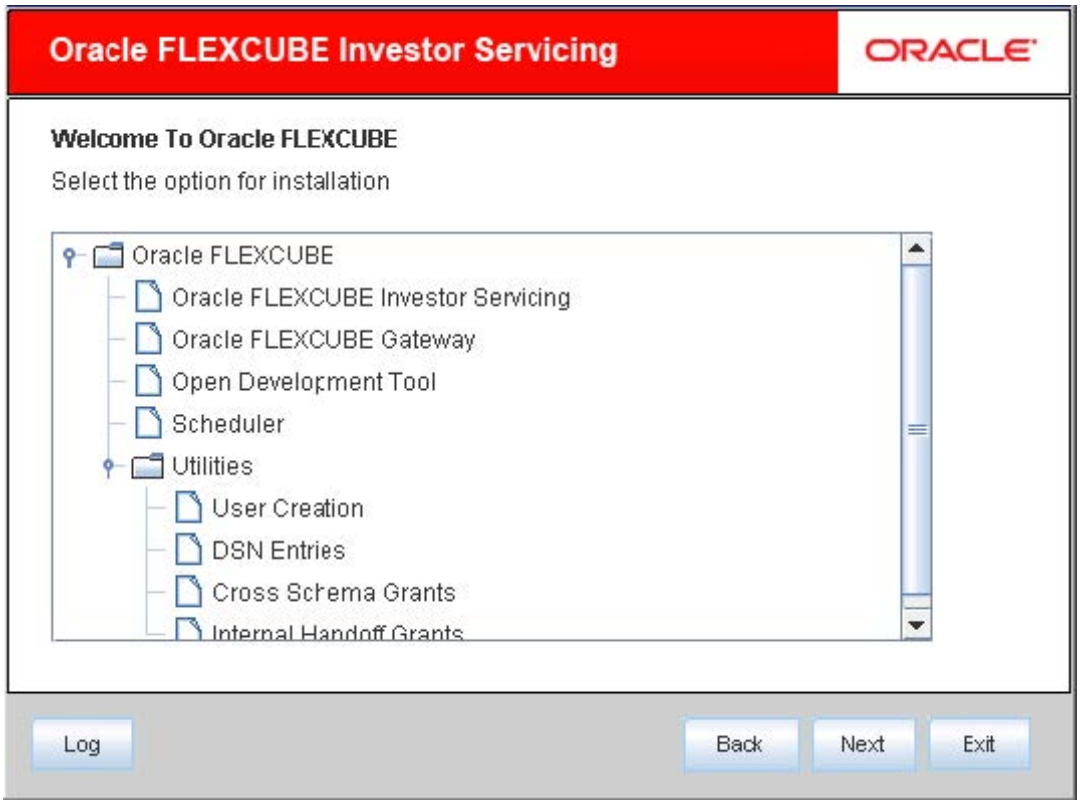
Table 2-1 JDK and Oracle Home path

Field	Description
JDK Path	Provide Home folder path of JDK1.8.
Oracle Home	Provide home folder path of Oracle Client or Database.
Application Server Home	Provide home folder path of Application Server.
Application Server Location	Select location of the application server either local or remote.

3. Click **Next** to select the option for installation.
4. Select **Oracle FLEXCUBE Investor Servicing** from the lists of **Oracle FLEXCUBE** options.

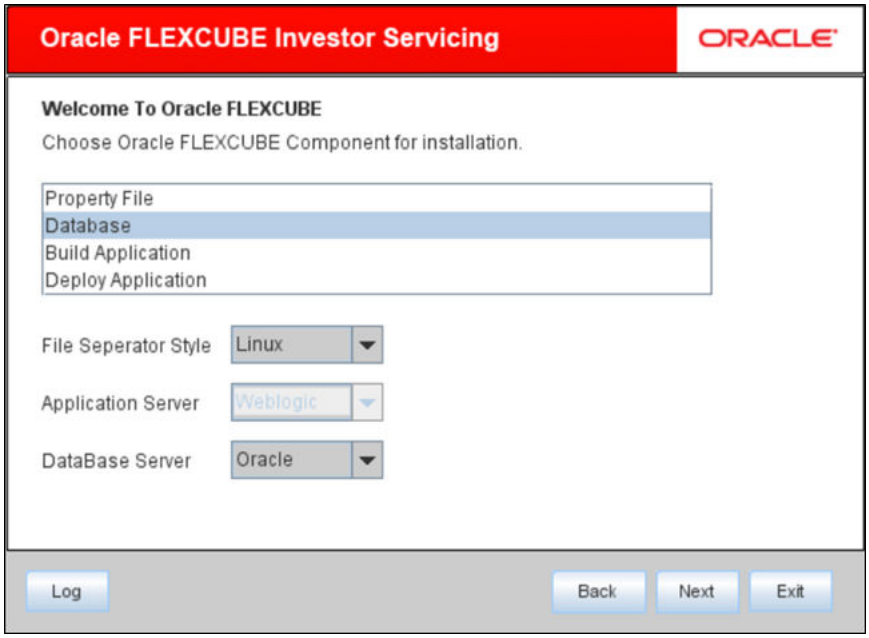
   The available options for installation are displayed.

Figure 2-2 Option for Installation



5. Click **Next** to choose **Oracle FLEXCUBE** component for installation.
6. Select **Database**.

Figure 2-3 Choose Database



7. Select the appropriate file separator style.

   Example: Linux or Windows.

8. Specify the application server on which you are installing **Oracle FLEXCUBE**.
9. Specify the database server on which you are installing **Oracle FLEXCUBE**.
10. Choose the **FCIS Schema Type** and click **Next**.

    The schema types for **Oracle FLEXCUBE Investor Servicing** are given below.

    - **SMS**
    - **SP**
    - **LOB**
    - **PENSION**
    - **REPORTS**

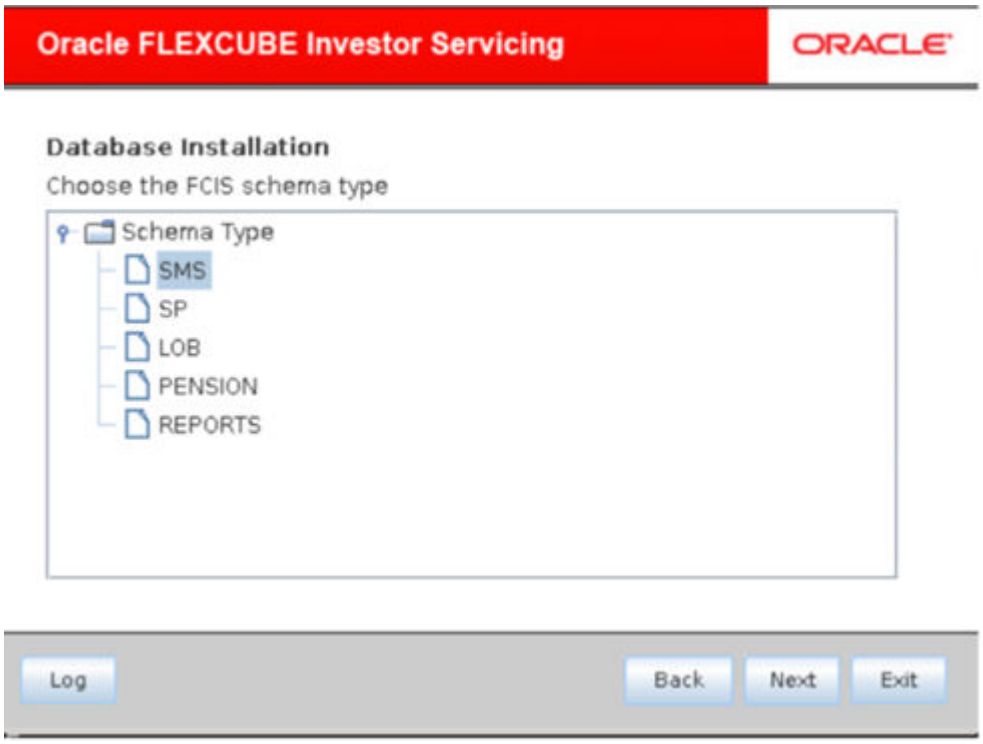
11. You need to get EXECUTE permissions for the procedures of all the schema types.

    - DBMS_CRYPTO
    - UTL_MAIL
    - CTX_DDL
    - UTL_RAW
    - CTXSYS
    - DBMS_RLS
    - UTL_RECOMP
    - DBMS_MONITOR
    - DBMS_LOCK
    - DBMS_AQ
    - DBMS_REDACT

12. You need to get the SELECT permissions for the Tables of all the schema types.
    - GV_$INSTANCE
    - REDACTION_POLICIES
    - REDACTION_COLUMNS
13. Select the **Schema Type** which needs to be deployed and click **Next**.

    The following screen is displayed.

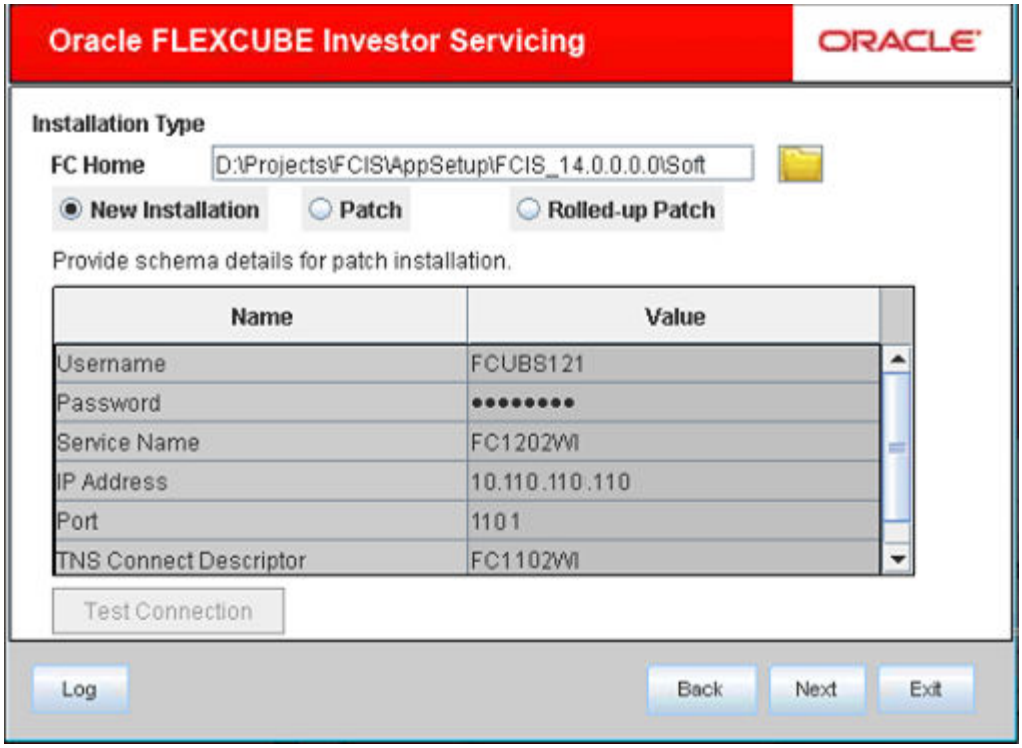
Figure 2-4 Schema Type



14. Enter the details in the **FC Home**, which is the location where FCIS sources copied from shipment media.

    The following screen is displayed.

Figure 2-5 Installation Type



15. Select the appropriate **Installation Type** option.

    The options available are:

    - New Installation
    - Patch
    - Rolled-up Patch

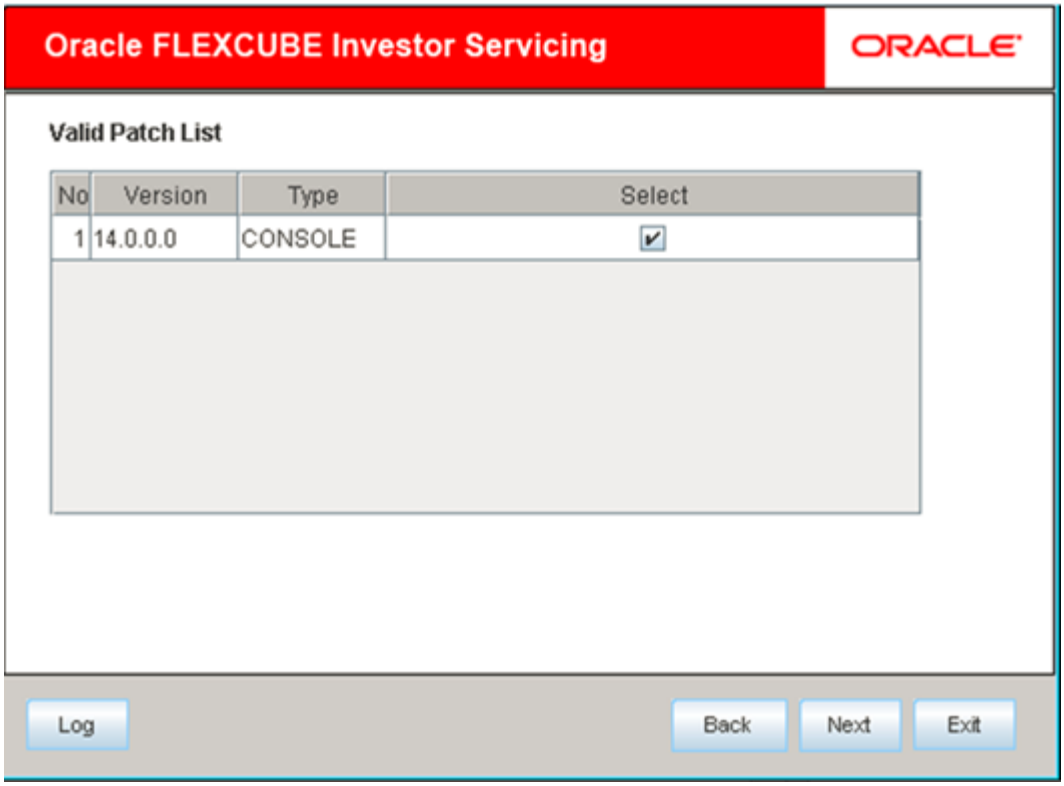
16. Provide schema details for validation in case of Patch and Rolled-up Patch installation.

    For New Installation, schema details are not enabled.

17. Choose the required set of Main and Patch releases.

    The valid list of deployable units are displayed based on the FCHOME chosen.

Figure 2-6 Valid Patch List



18. Choose installation option from the **Installation Type**.

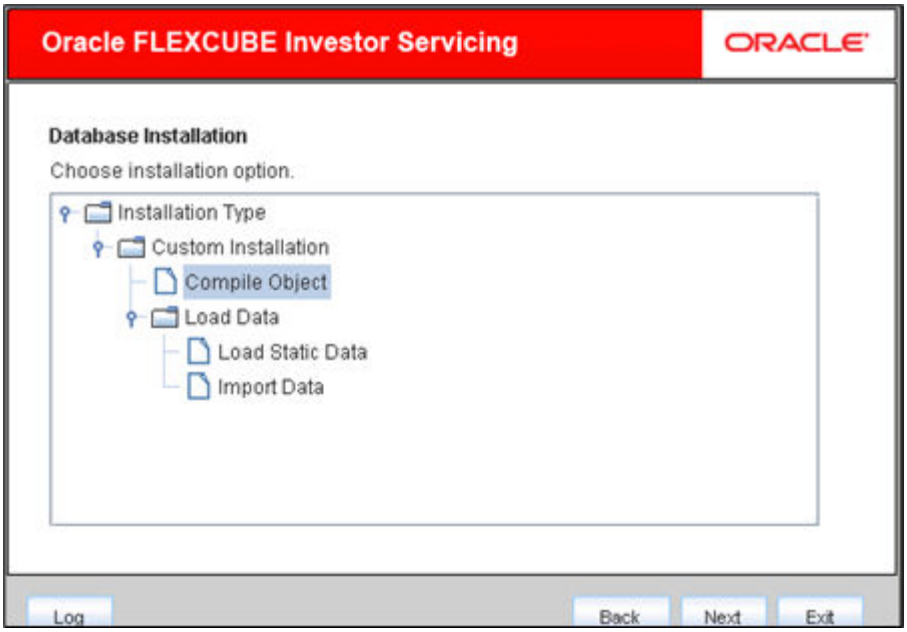
    The **Oracle FLEXCUBE Universal Installer** supports **Custom Installation** of **Oracle FLEXCUBE** in two methods.

    - Compile objects.
    - Load data.

19. Select **Compile Object** under **Custom Installation** and click **Next**.

    The following screen is displayed.

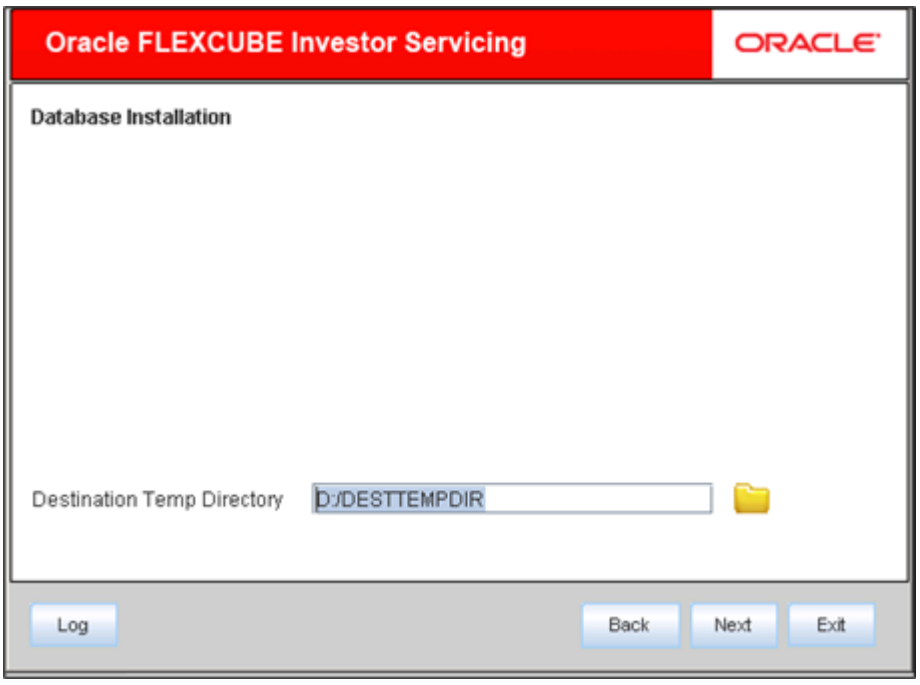
Figure 2-7 Select Compile Object



20. Provide directory path as required in the **Destination Directory** and click **Next**.

    This directory will be used as a staging directory to copy required files for compilation.

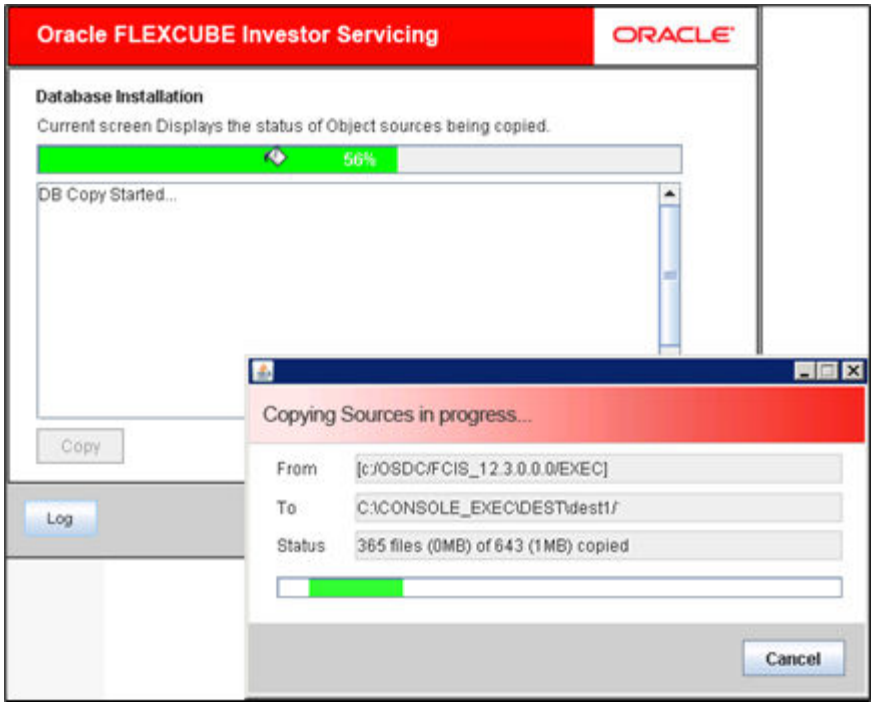
Figure 2-8 Destination Directory



21. Click **Copy** to start database objects source copy.

    The **Installer** will copy the source files from the source directory to the destination directory. The files are taken from this location for compilation.

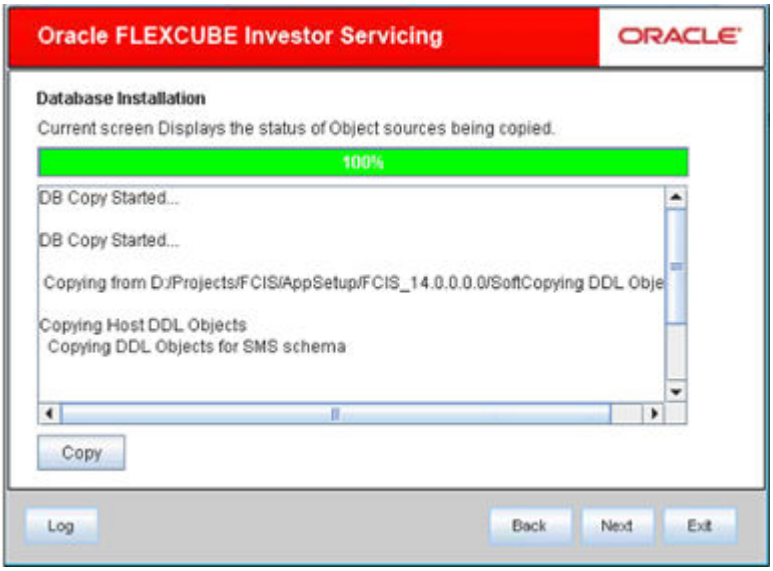
Figure 2-9 Copying sources in progress



22. Check the status of all the files being copied and complete the copy process.

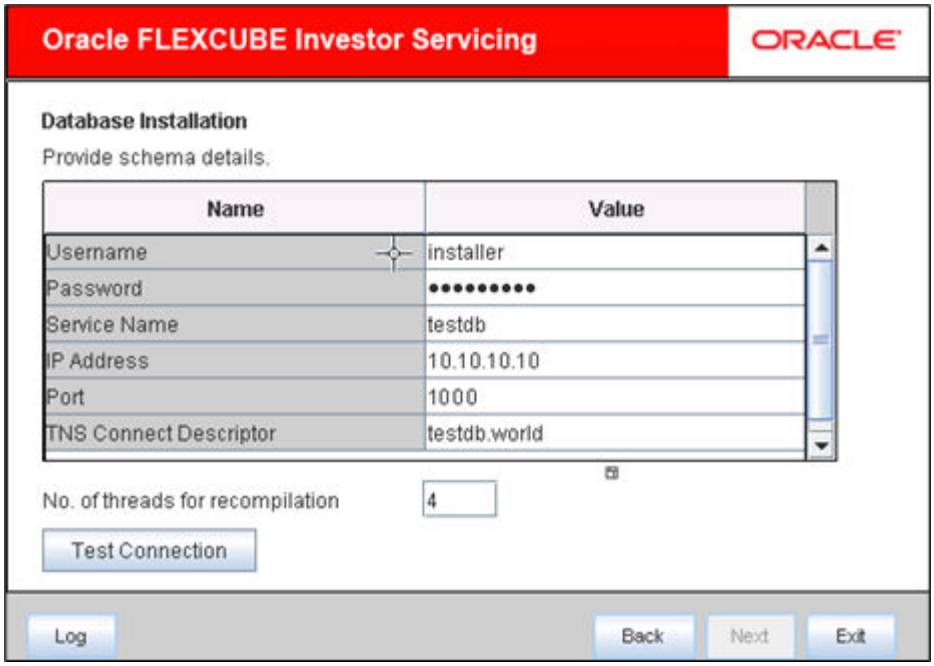
    The following screen is displayed.

Figure 2-10 Status of Object sources being copied



23. Click **Next** and provide schema details.

Figure 2-11 Schema Details



24. Specify schema details.

    Refer to the table for Schema details.

Table 2-2 Schema details

Field	Description
User Name	Specify the user name to access the schema.
Password	Enter the schema password.
Service Name	Provide service name of Database.
TNS Connect Descriptor	Specify a valid connect string that contains the details for database connectivity.
IP Address	Specify the IP address of the system where the database schema is installed.
Port	Specify the port number.
No. of threads for recompilation	Specify the number of threads that would be used to compile the objects. The value is defaulted to 4, if no value is given.

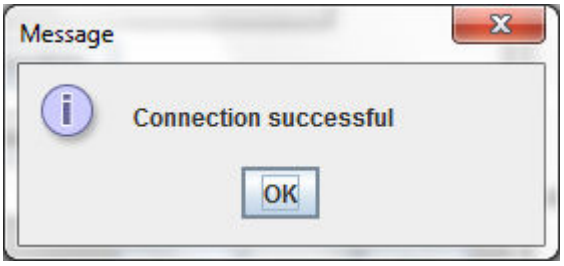
25. Click **Test Connection** to test the connection with the Application server.

    If there is an error in establishing the connection, the system displays the message `Invalid DB Credentials`.

    If the TNS entry is not proper, the installer displays the message `TNS entries are not proper`.

    If the connection is established, the installer displays the message `Connection Successful`.

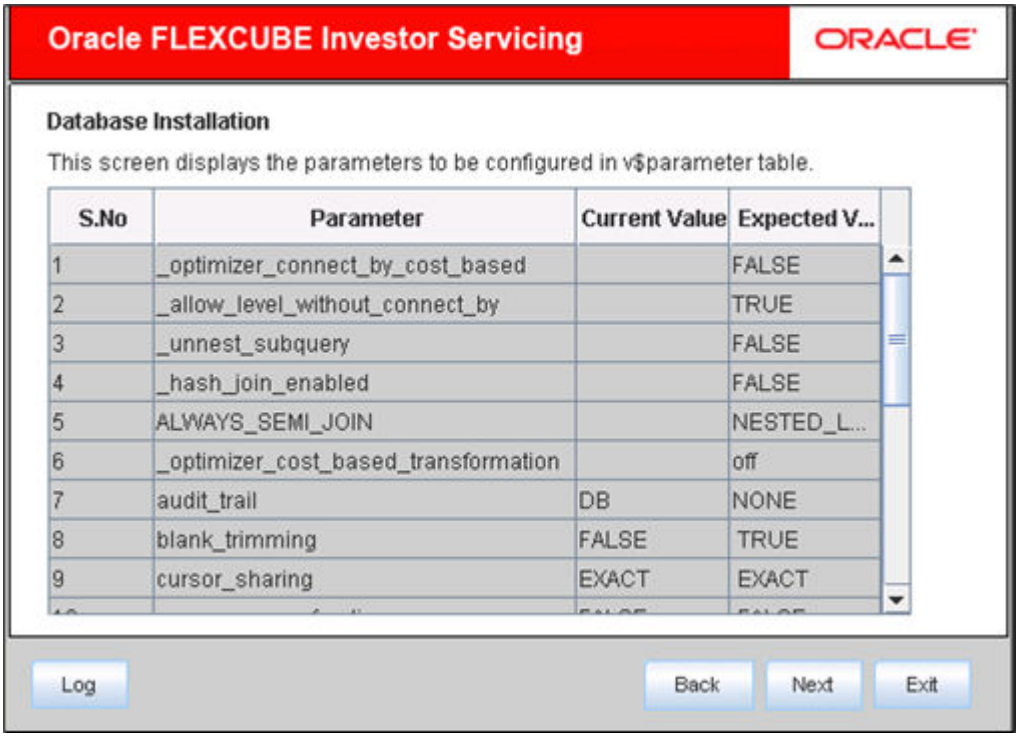
Figure 2-12 Information Message on Successful Connection



26. Click **Next** after testing the connection successfully.

    This screen displays the parameter details of the database. This is for information purpose and you cannot modify the parameters from this screen.

Figure 2-13 Parameter Table

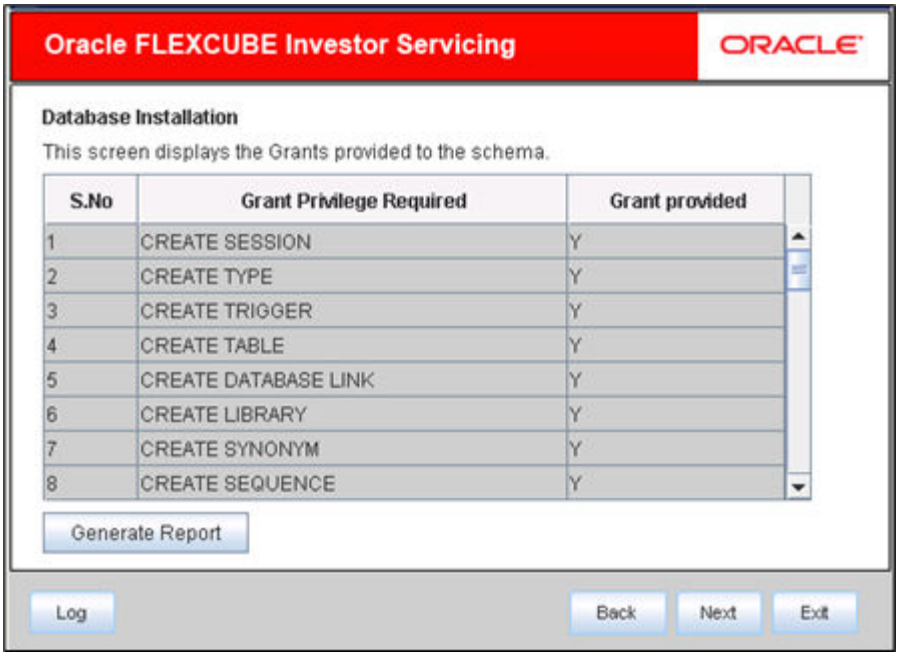


27. Click **Next**.

    If object compilation is required and the privilege is not given, then you can find that out from this screen.

    The screen displays the grants provided to the schema. This is for information purpose only.

Figure 2-14 Grant Previlege Details



28. Click **Generate Report** to grant privilege to an item in the schema.

    The installer creates a SQL file `grantScript.sql` containing the script for granting the privileges in the **Logs** folder.

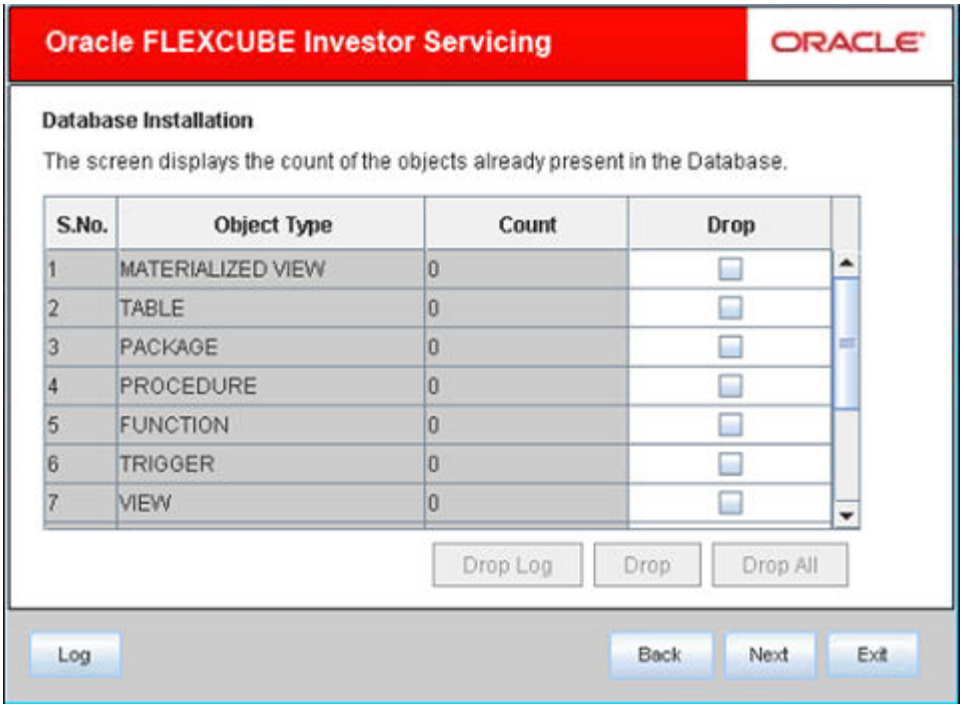
29. You can use this file to get the access.

    Only system user can execute the file `grantScripts.sql` for granting privileges.

30. You can view the count of the objects already present in the Database.

    The screen displays the count of the objects.

Figure 2-15 Count of the Objects in the Database

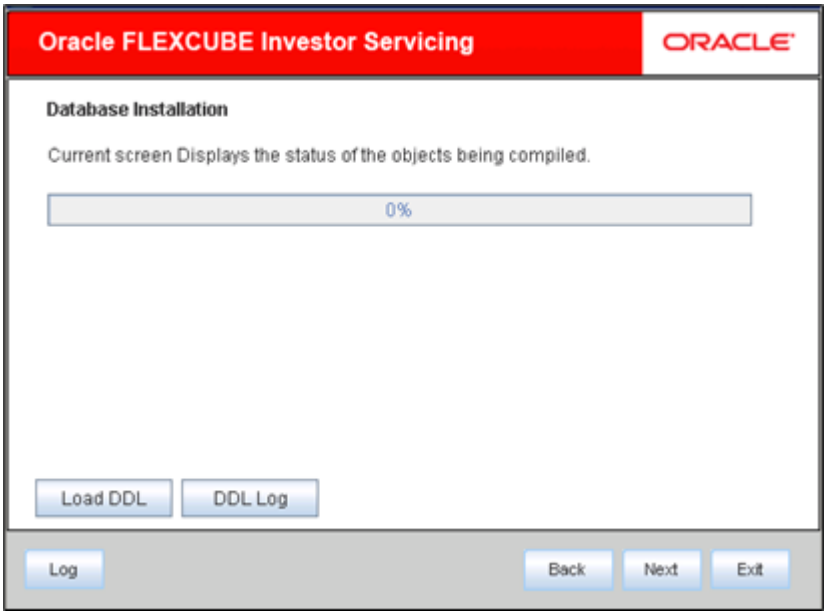


31. On objects count screen, select the objects and click **Drop** to drop the selected objects. As you drop the objects, the count in this screen is updated. Click **Drop All** to drop all the objects at once.
32. Click **Drop Log** to view the drop log.

    The details of the drop process are logged in a file `Drop_All.log` in the destination directory under the folder **DBLogs**.
33. Click **Next** after the count of objects being updated.

    The screen displays the status of the objects being compiled.

Figure 2-16 Status of DDL object being compiled



34. Click **Load DDL** to compile the table, sequences and type objects.
35. Click **DDL Log** button to view the DDL logs.

    You can rectify the missing DDL objects and recompile them either manually or by redoing the DDL compilation using Installer.

    The log file `LoadDDL.log` will be available in the destination directory under the folder **DBLogs**.
36. For SMS setup, specify the following details.

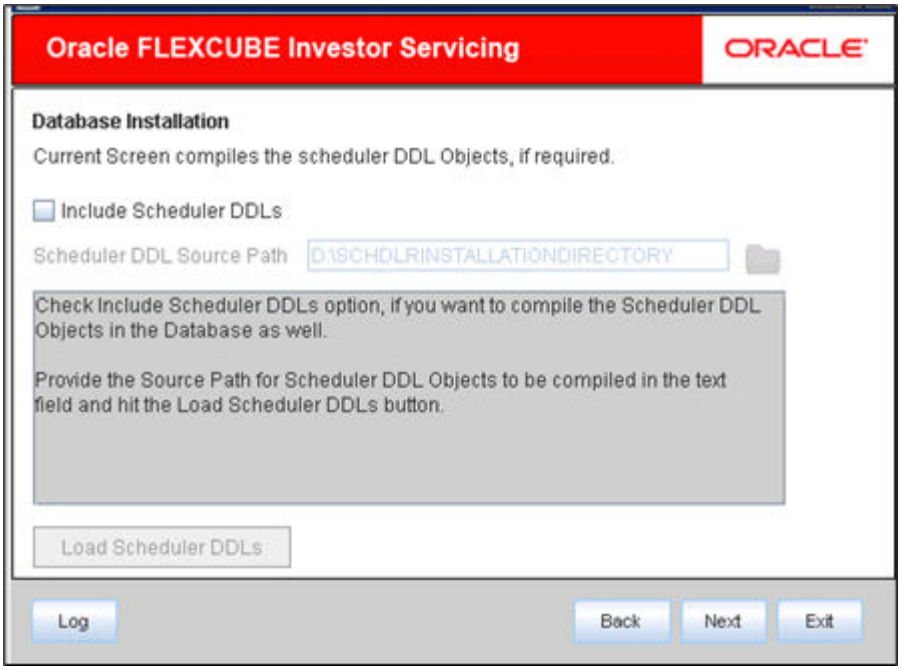
    For other schema setup, these details will be skipped.

Table 2-3 Scheduler DDL objects compilation

Field	Description
Include Scheduler DDLs	Check this box to include scheduler DDLs. If you do not need to include the scheduler DDLs, leave this field unchecked.
Scheduler DDL Source Path	Specify the location of the `tables_oracle.sql` folder, which is available in the extracted `quartz.jar`. **Note:** Quartz is an open source job scheduling service. You can use Quartz to create schedules for executing jobs whose tasks are defined as standard Java components. You first need to download the file `quartz.jar` and extract it to the local machine. In the extracted folder, find the location of the folder **dbTables** and enter that path in the field **Scheduler DDL Source Path**. Refer the *Release* document for version and download url for quartz.

The following screen is displayed.

Figure 2-17 Compile Scheduler DDL Objects

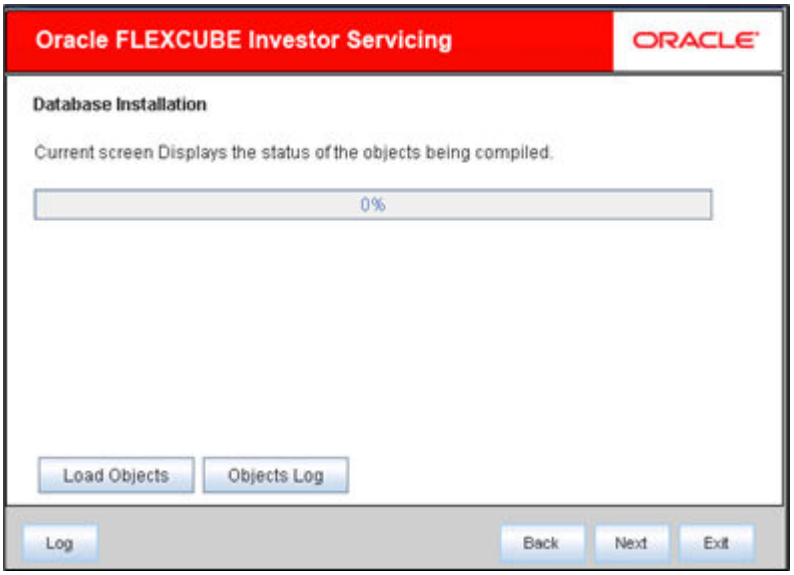


37. Click **Load Scheduler DDLs** to compile the files and click **Next**.
38. Click **Load Objects** button.

> **Note:**
>
> You can rectify the missing objects and recompile them either manually or by redoing the Application object compilation using Installer.

The installer loads the functions, procedures, views, triggers and packages as per your selection and compiles them. The installer loads the DDL and application objects based on the schema type selected.

Figure 2-18 Status of Object sources being compiled



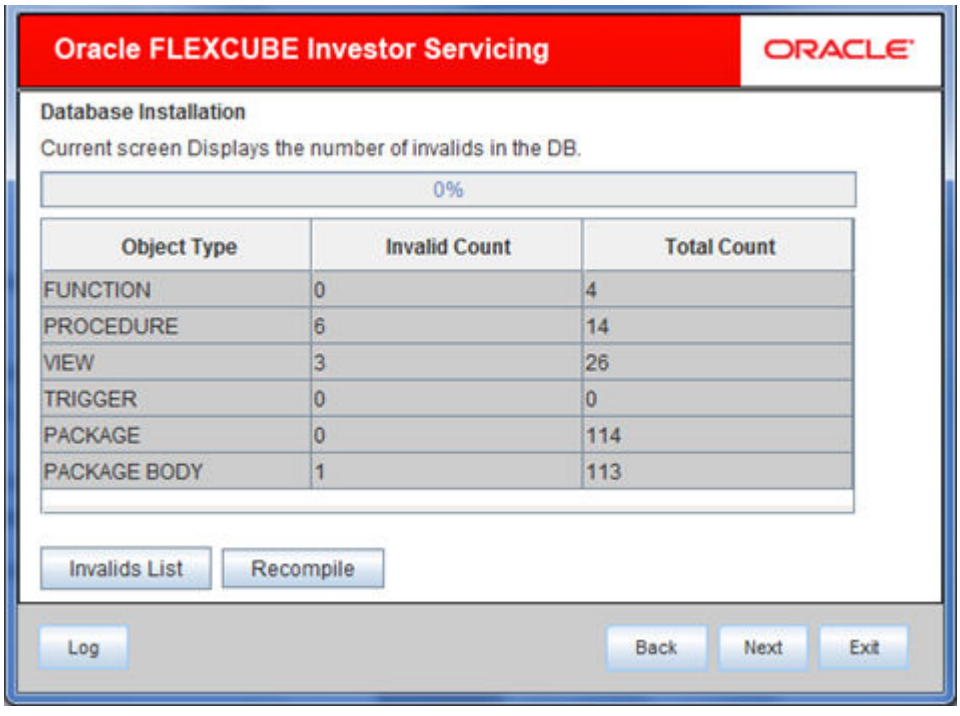
39. Click **Objects Log** button to view the log.

    The log file `LoadAppObj.log` will be available in the destination directory under the folder **DBLogs**.

40. Click **Next** to view the list of invalid objects in the DB.

    The following screen is displayed.

Figure 2-19 Invalid Lists in DB



41. Click **Invalid List** button to view the count of invalid objects.

    The installer creates the file `InvalidList.txt` in the destination directory under the folder **DBLogs**.

42. You can use **Recompile** button to do a cyclic recompilation. This will reduce the invalid objects count.

    The **Installer** allows you to use **Recompile** button multiple times, in order to reduce the invalid objects count.

43. In case if the invalids still exist, use the recompile option after running the Cross Schema Scripts Utility.

    Refer the topic *Cross Schema Scripts* for running the Cross Schema Scripts Utility.

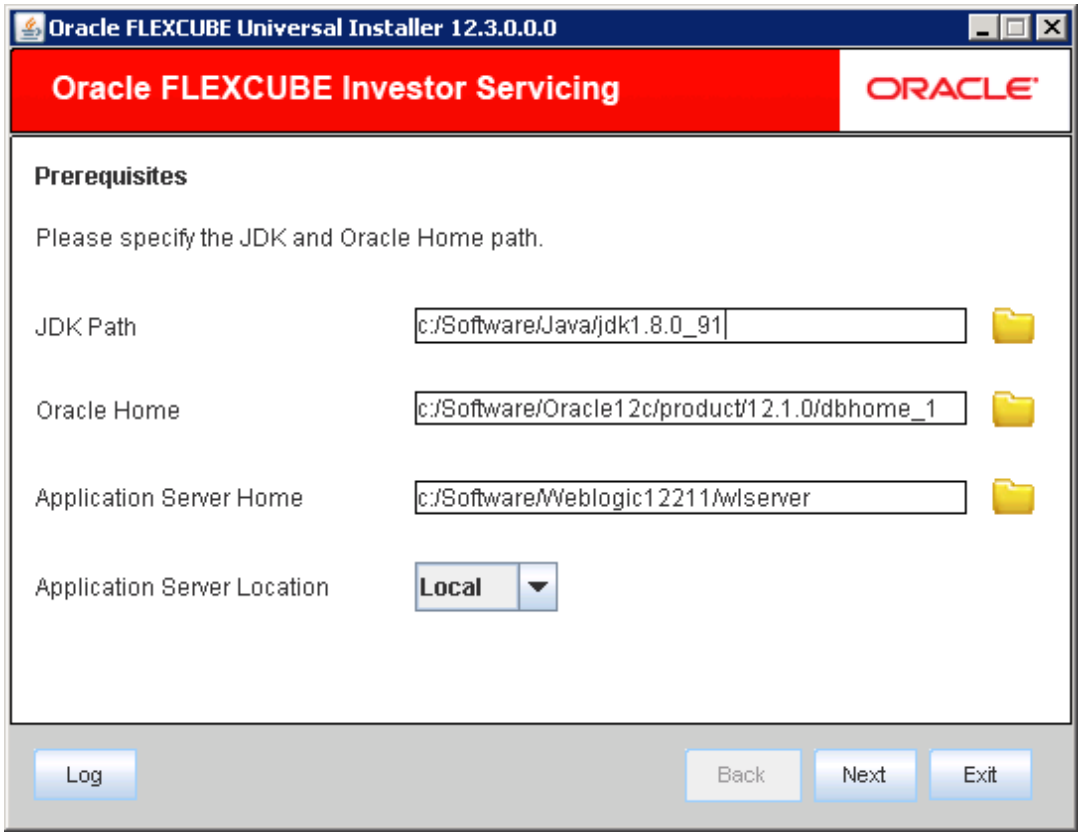
3
Load Static Data

This topic explains the steps to load static data into the database and the basic setup to be done.

1. Start **Oracle FLEXCUBE Universal Installer**.

   The **Oracle FLEXCUBE Universal Installer** is displayed.

Figure 3-1 Oracle FLEXCUBE Universal Installer



2. On **Oracle FLEXCUBE Universal Installer** screen, enter the following details.

   Refer to the table for JDK and Oracle Home path.

Table 3-1 JDK and Oracle Home path

Field	Description
JDK Path	Provide Home folder path of JDK1.8.
Oracle Home	Provide home folder path of Oracle Client or Database.
Application Server Home	Provide home folder path of Application Server.

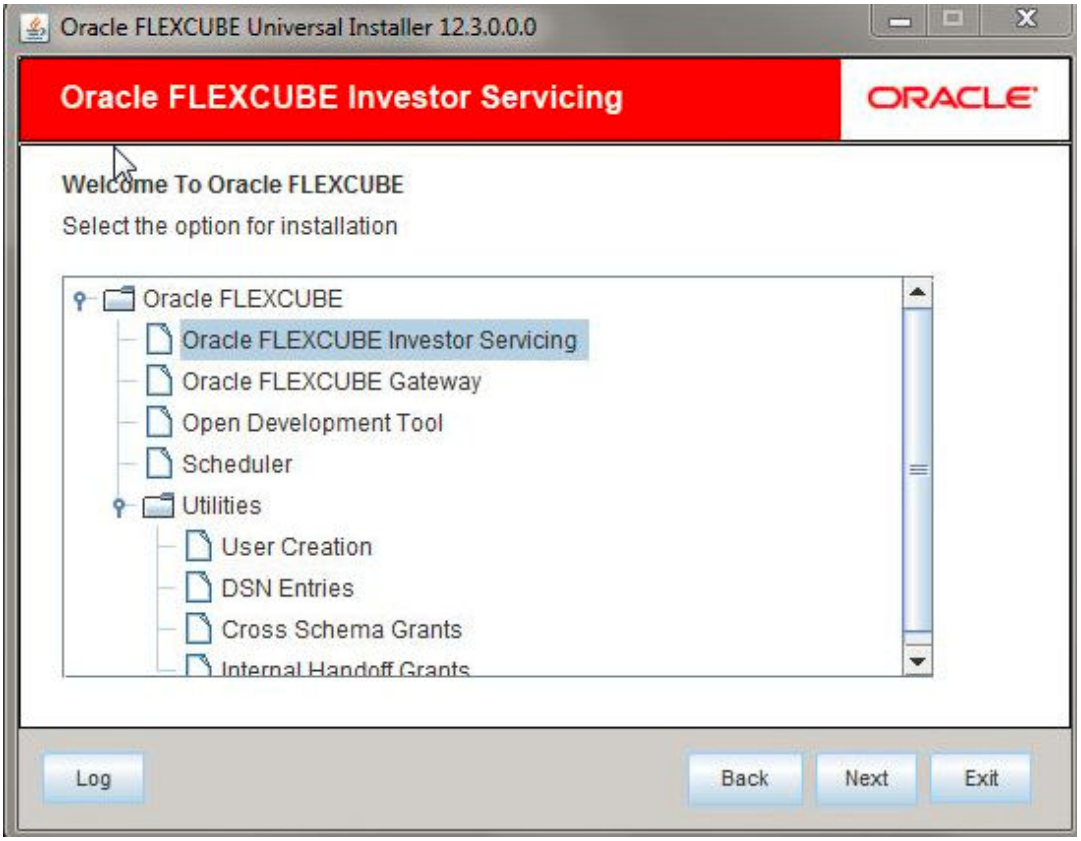
Table 3-1 (Cont.) JDK and Oracle Home path

Field	Description
Application Server Location	Select location of the application server either local or remote.

3. Click **Next** to select the option for installation.
4. Select **Oracle FLEXCUBE Investor Servicing** from the lists of **Oracle FLEXCUBE** options.

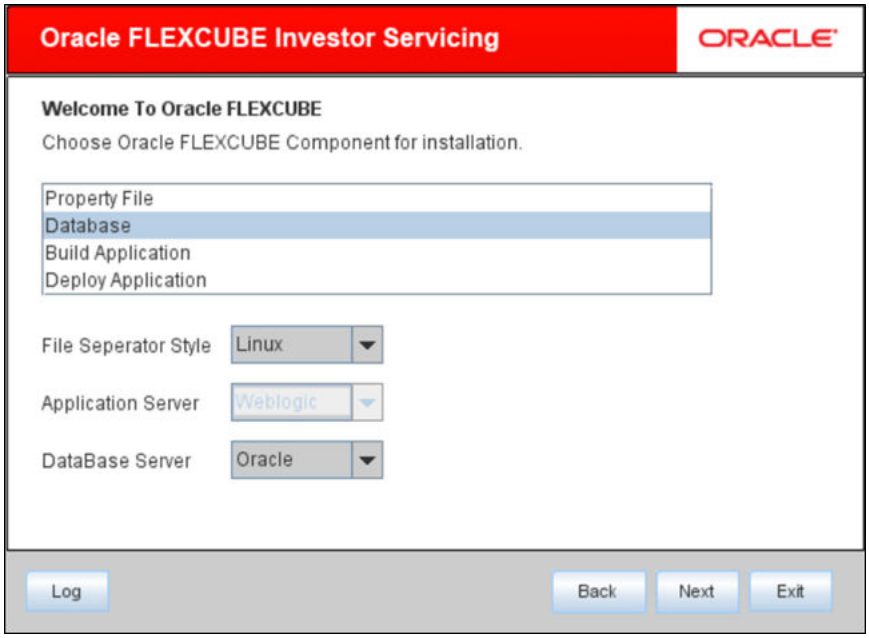
   The available options for installation are displayed.

Figure 3-2 Option for Installation



5. Click **Next** to choose **Oracle FLEXCUBE** component for installation.
6. Choose **Database**.

Figure 3-3 Choose Database



7. Choose installation option from the **Installation Type**.

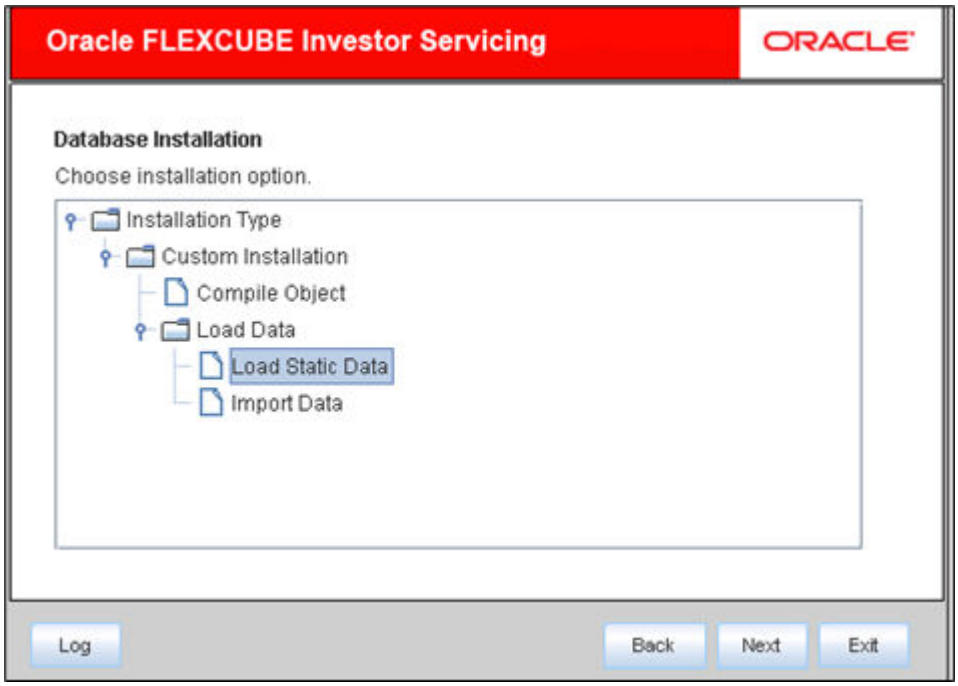
   The **Oracle FLEXCUBE Universal Installer** supports **Custom Installation** of **Oracle FLEXCUBE** in two methods.

   - Compile objects.
   - Load data.

8. Select **Load Static Data** under **Custom Installation** and click **Next**.

   The following screen is displayed.

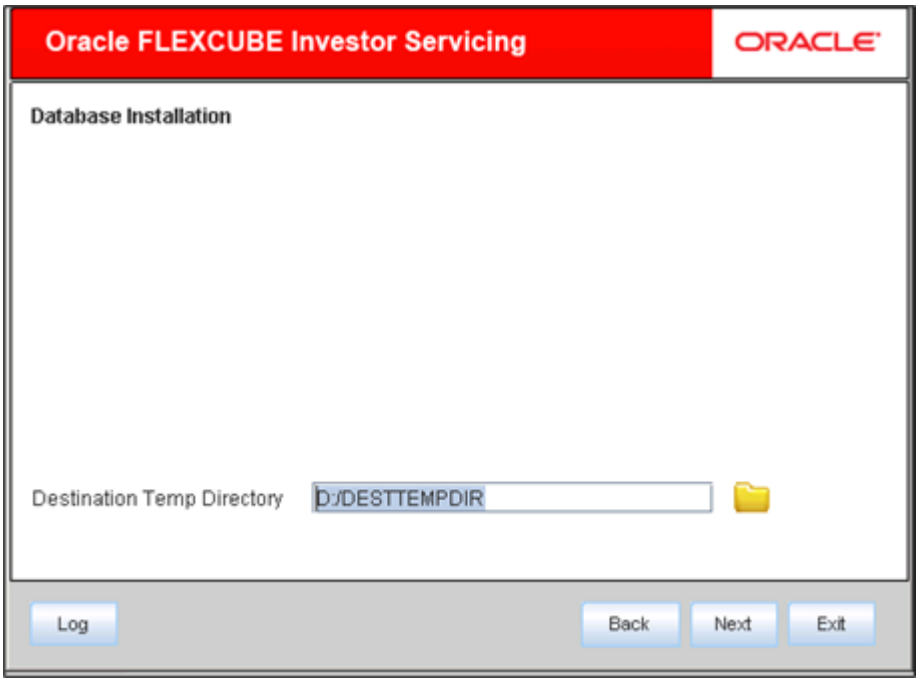
Figure 3-4 Custom Installation_Load Data_Load Static Data



9. Provide directory path as required in the **Destination Directory** and click **Next**.

   The following screen is displayed.

Figure 3-5 Destination Directory



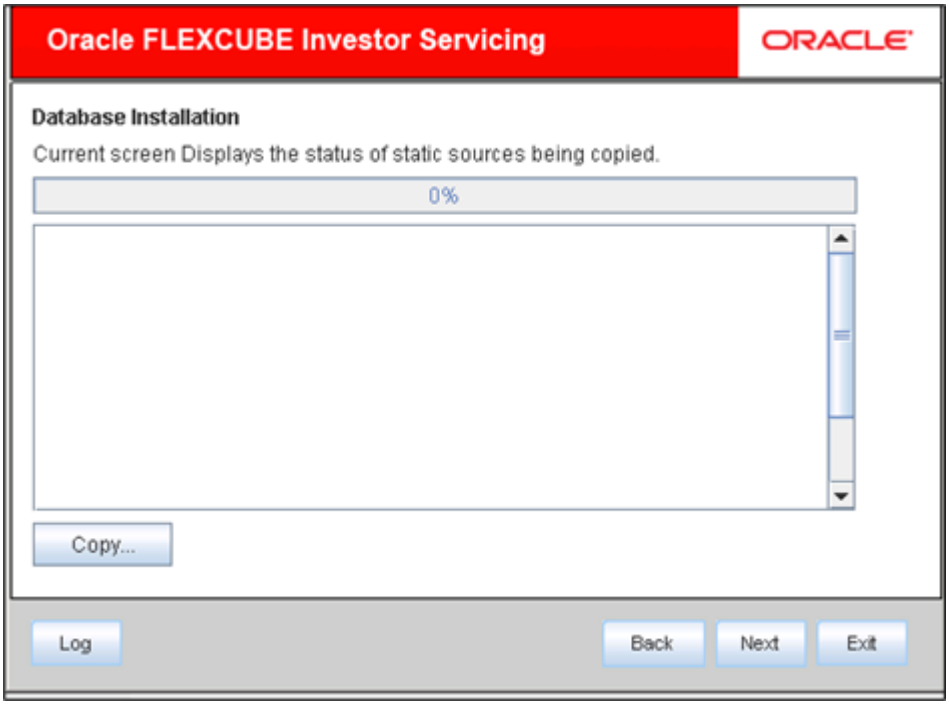
10. Click **Copy** to start database objects source copy.

    The **Installer** will copy the source files from the source directory to the destination directory. The files are taken from this location for compilation.

11. Check the status of all the files being copied and complete the copy process.

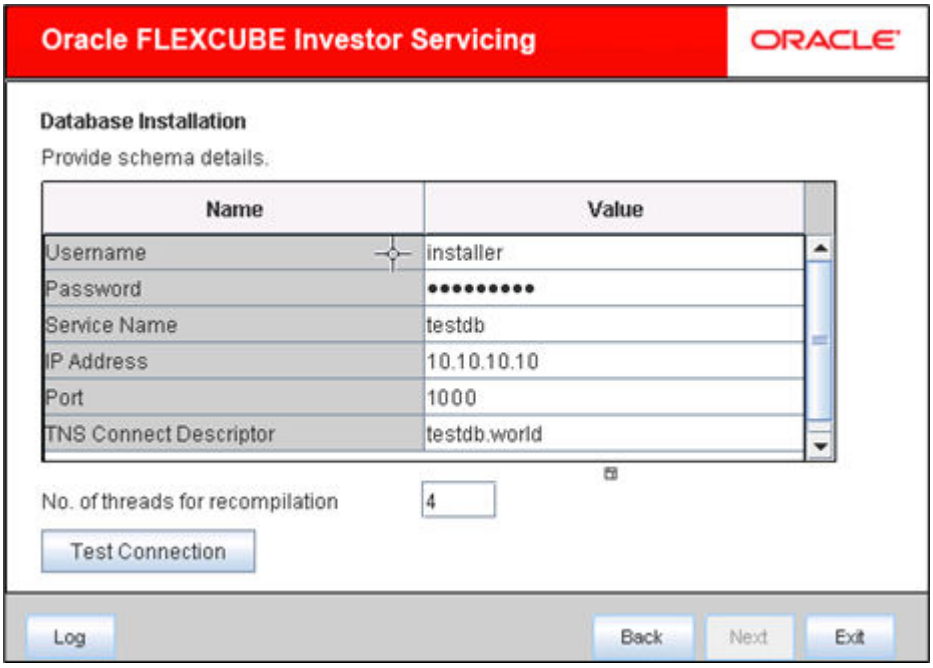
    The following screen is displayed.

Figure 3-6 Status of static sources being copied



12. Click **Next** and provide schema details.

Figure 3-7 Schema Details



13. Specify schema details.

    Refer to the table for Schema details.

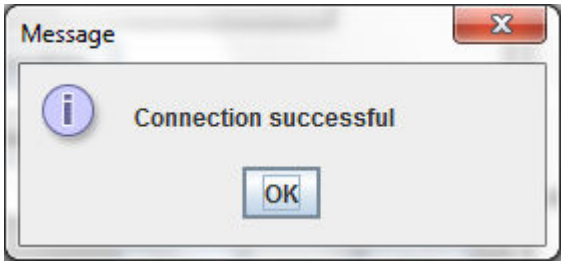
Table 3-2 Schema details

Field	Description
User Name	Specify the user name to access the schema.
Password	Enter the schema password.
Service Name	Provide service name of Database.
TNS Connect Descriptor	Specify a valid connect string that contains the details for database connectivity.
IP Address	Specify the IP address of the system where the database schema is installed.
Port	Specify the port number.

14. Click **Test Connection** to test the connection with the Application server.

    If the connection is established, the installer displays the message `Connection Successful`.

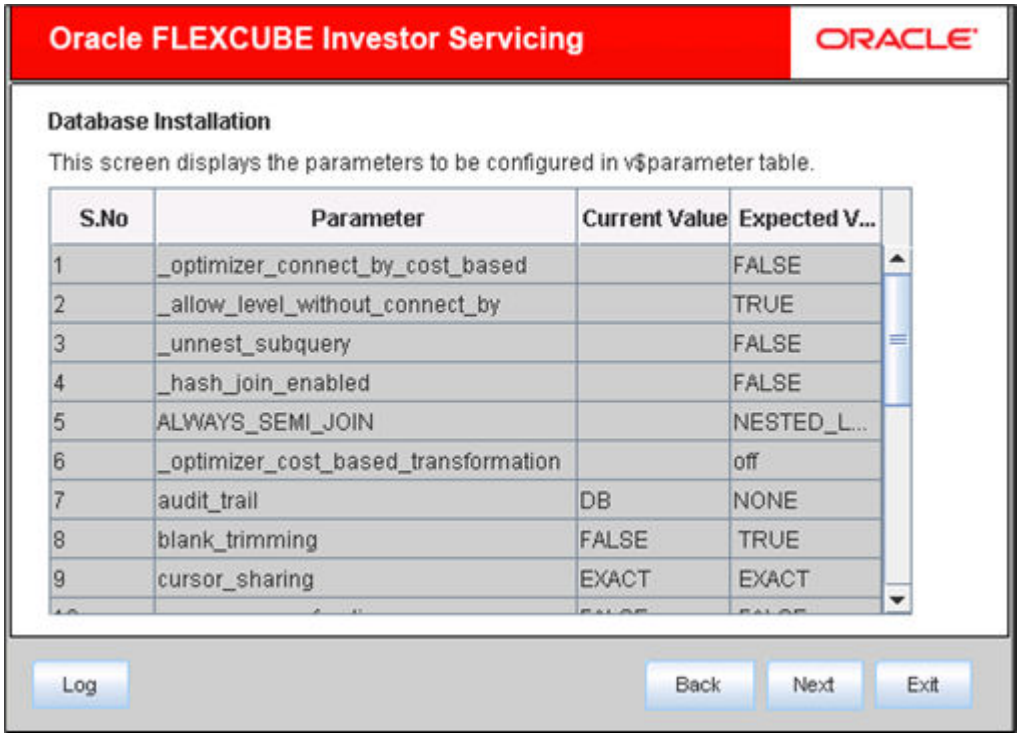
Figure 3-8 Information Message on Successful Connection



15. Click **Next** after testing the connection successfully.

    This screen displays the parameter details of the database. This is for information purpose and you cannot modify the parameters from this screen.

Figure 3-9 Parameter Table

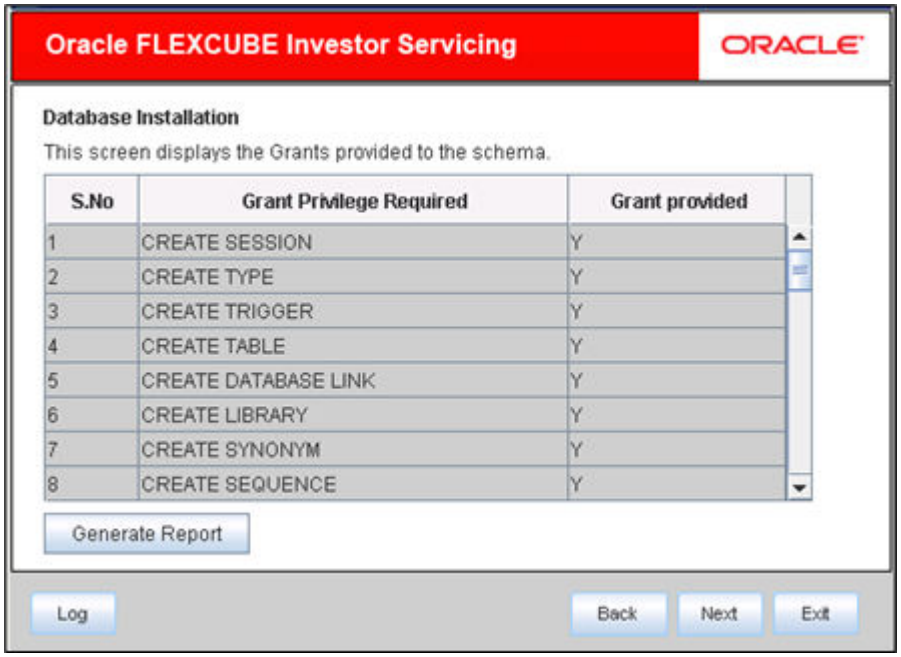


16. Click **Next**.

    If object compilation is required and the privilege is not given, then you can find that out from this screen.

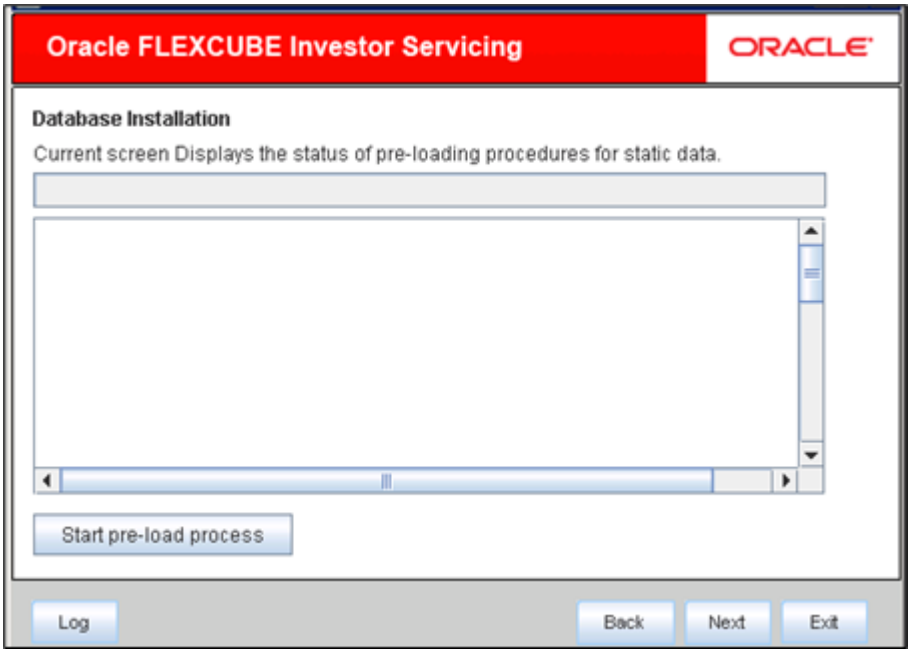
    The screen displays the grants provided to the schema. This is for information purpose only.

Figure 3-10 Grant Previlege Details



17. You can view the status of pre-loading procedures for static data.

Figure 3-11 Start Pre-Load Process



18. Click **Start Pre-Load Process**.

    The installer executes the procedures required before beginning static data compilation. All the triggers will be disabled during this process.

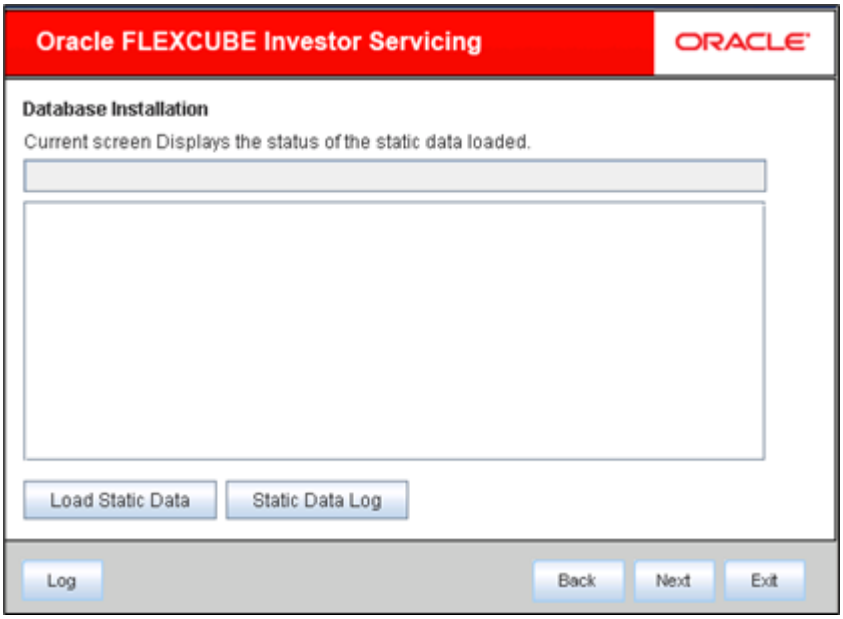
19. Click **Log** button.

    The installer executes the process log.

20. Click **Next** once the process is completed.

    The following screen is displayed.

Figure 3-12 Status of Static data loaded

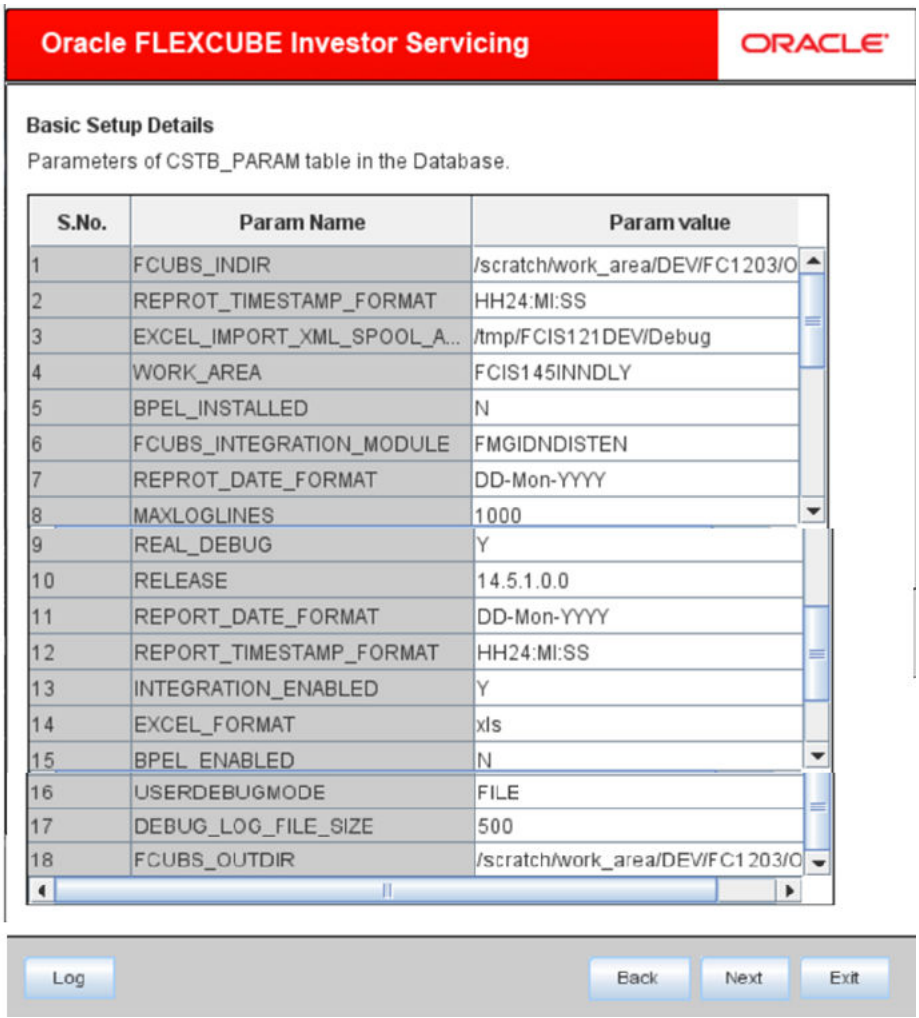


21. Click **Load Static Data** to load the static data to schema.
22. Click **Static Data Log** to view the static data log.
23. Click **Next** once the static data is loaded.

    You can do the basic maintenances for the table **CSTB_PARAM**. The above screen appears only when doing the db setup for a console source but not for a patch source(s).

    The following screen is displayed.

Figure 3-13 CSTB_PARAM Table

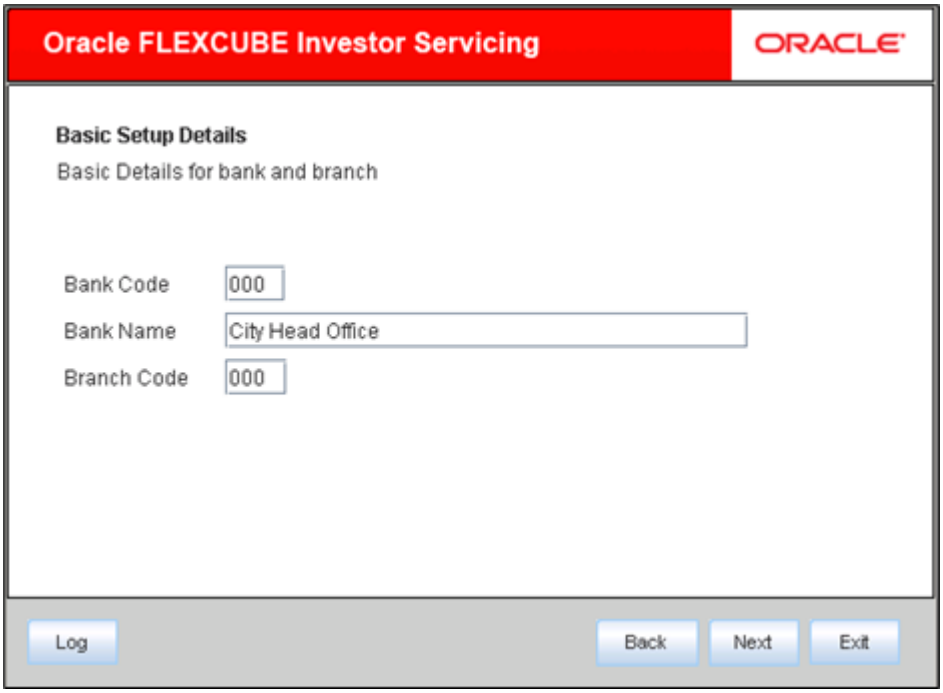


24. Click **Next** once the basic setup details are done.

    You can do the basic maintenances for the tables **STTM_BANK** and **STTM_BRANCH**.

    The following screen is displayed.

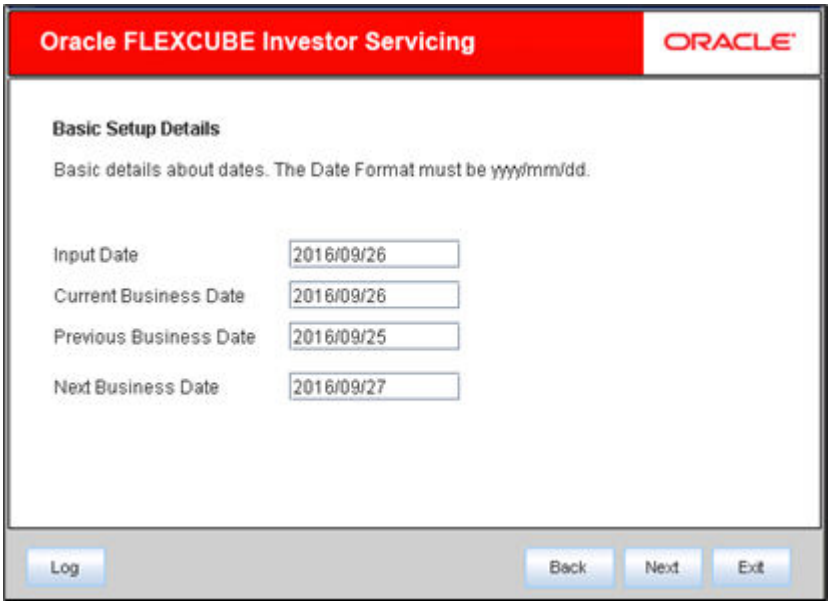
Figure 3-14 STTM_BANK and STTM_BRANCH Table



25. Click **Next** to do the basic maintenance for the table **STTM_DATES**.

    The following screen is displayed.

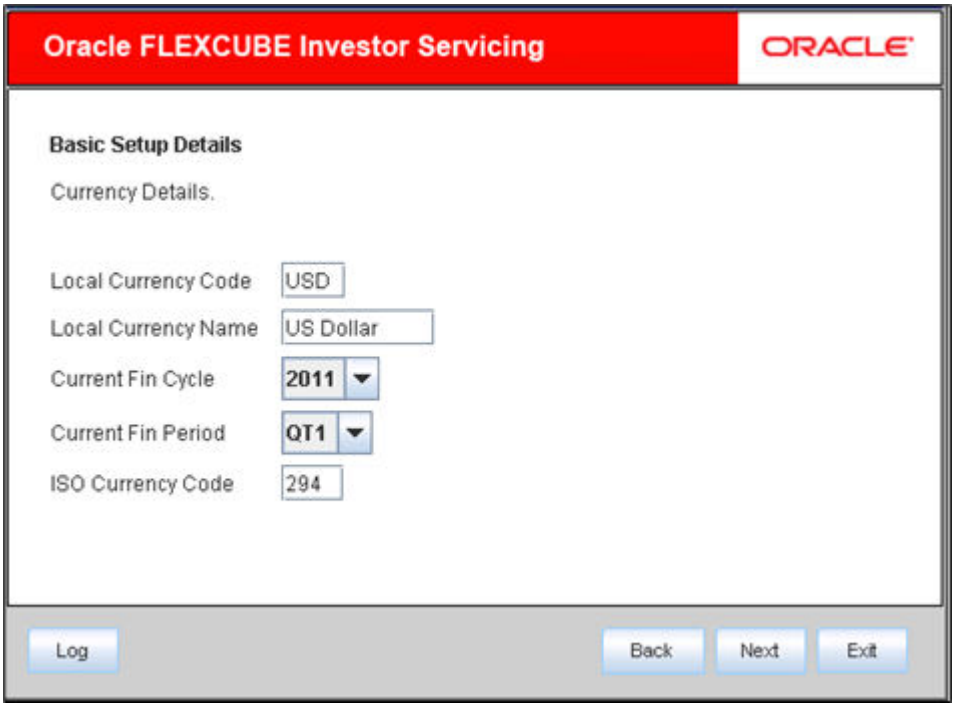
Figure 3-15 STTM_DATES Table



26. Click **Next** to do the basic maintenances for the table **CYTM_CCY_DEFN**.

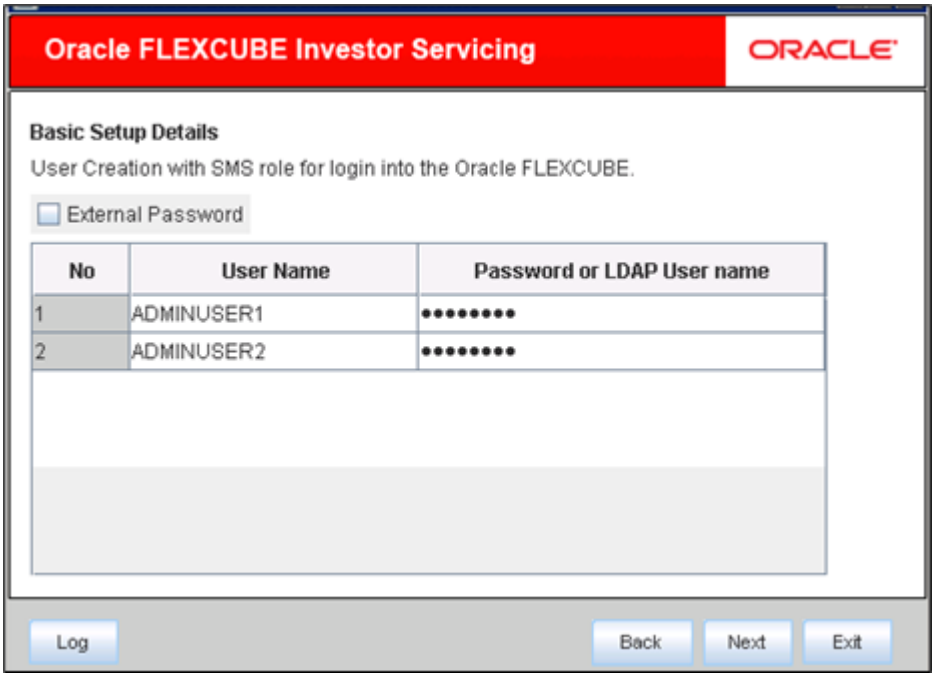
    The following screen is displayed.

Figure 3-16 CYTM_CCY_DEFN Table



27. Click **Next** for user creation with SMS role to log in to **Oracle FLEXCUBE**.
28. On **User Creation** screen, you can do the basic maintenances for the table **SMTB_USER** and **SMTB_USER_ROLE**.

Figure 3-17 SMTB_USER and SMTB_USER_ROLE Table



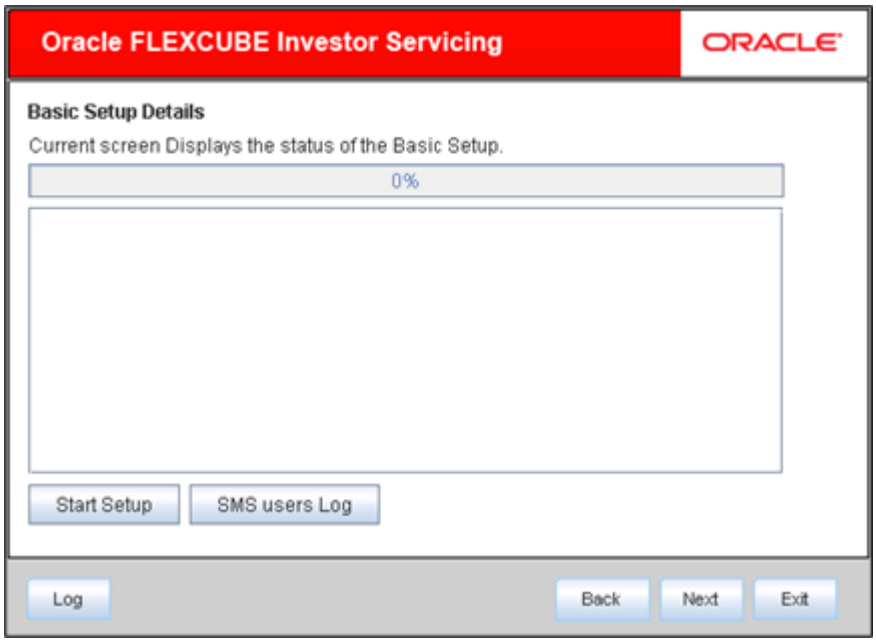
29. Specify the **Password**.

    You can use Uppercase, Lowercase, and Numerals in the password whereas you cannot use `_(underscore)` in the password.

30. Click **Next** to view the status of the basic setup.

    The following screen is displayed.

Figure 3-18 Status of Basic Setup



31. Click **Start Setup** button to compile the entries.

    This completes the static maintenance and basic setup process. The **STTM_HOST_DSN** entry is to be done with the **DSN Name** as **FCJSMS000DS** for SMS and the same is to be used during datasource creation in weblogic.

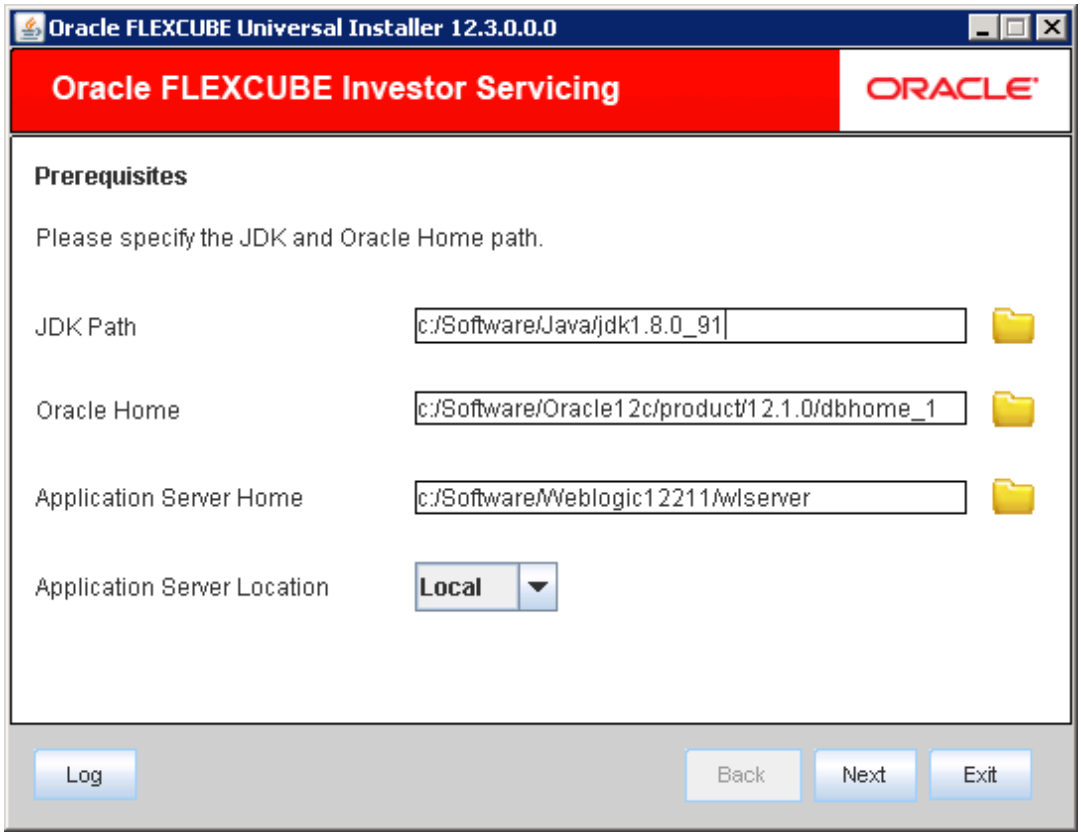
4
Import Data

This topic describes the process of importing data for installation.

1. Start **Oracle FLEXCUBE Universal Installer**.

   The **Oracle FLEXCUBE Universal Installer** is displayed.

Figure 4-1 Oracle FLEXCUBE Universal Installer



2. On **Oracle FLEXCUBE Universal Installer** screen, enter the following details.

   Refer to the table for JDK and Oracle Home path.

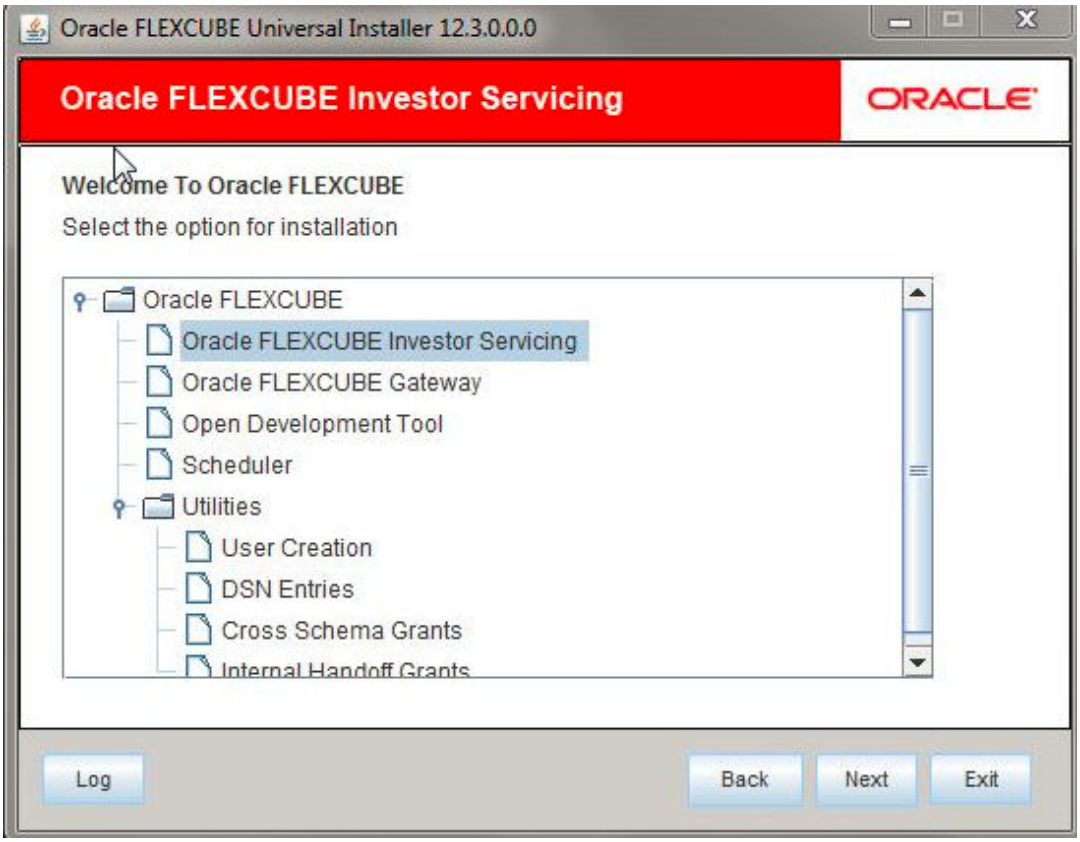
Table 4-1 JDK and Oracle Home path

Field	Description
JDK Path	Provide Home folder path of JDK1.8.
Oracle Home	Provide home folder path of Oracle Client or Database.
Application Server Home	Provide home folder path of Application Server.
Application Server Location	Select location of the application server either local or remote.

3. Click **Next** to select the option for installation.
4. Select **Oracle FLEXCUBE Investor Servicing** from the lists of **Oracle FLEXCUBE** options.

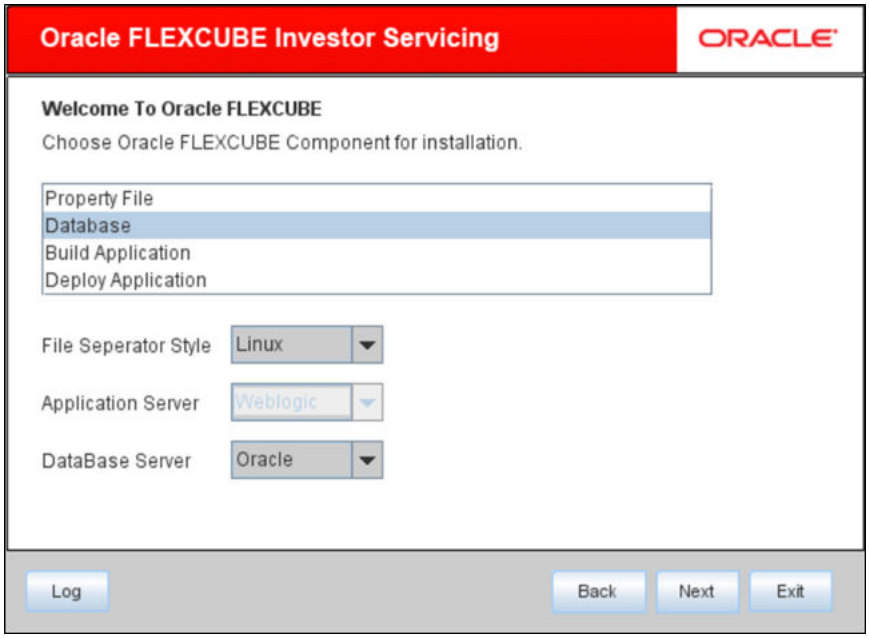
   The available options for installation are displayed.

Figure 4-2 Option for Installation



5. Click **Next** to choose **Oracle FLEXCUBE** component for installation.
6. Choose **Database**.

Figure 4-3 Choose Database



7. Choose installation option from the **Installation Type**.

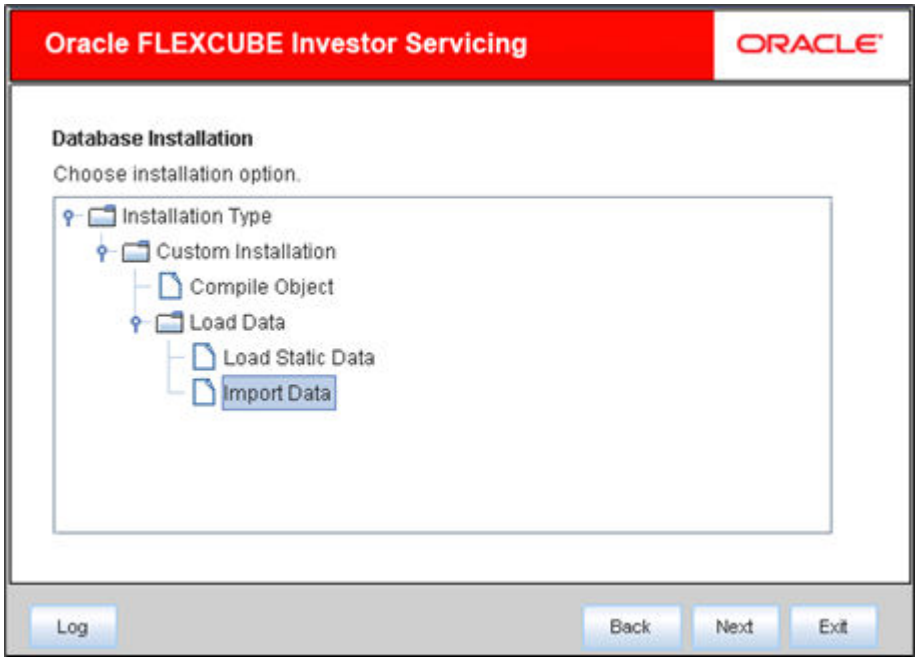
   The **Oracle FLEXCUBE Universal Installer** supports **Custom Installation** of **Oracle FLEXCUBE** in two methods.

   - Compile objects.
   - Load data.

8. Select **Import Data** under **Custom Installation** and click **Next**.

   The following screen is displayed.

Figure 4-4 Custom Installation_Load Data_Import Data



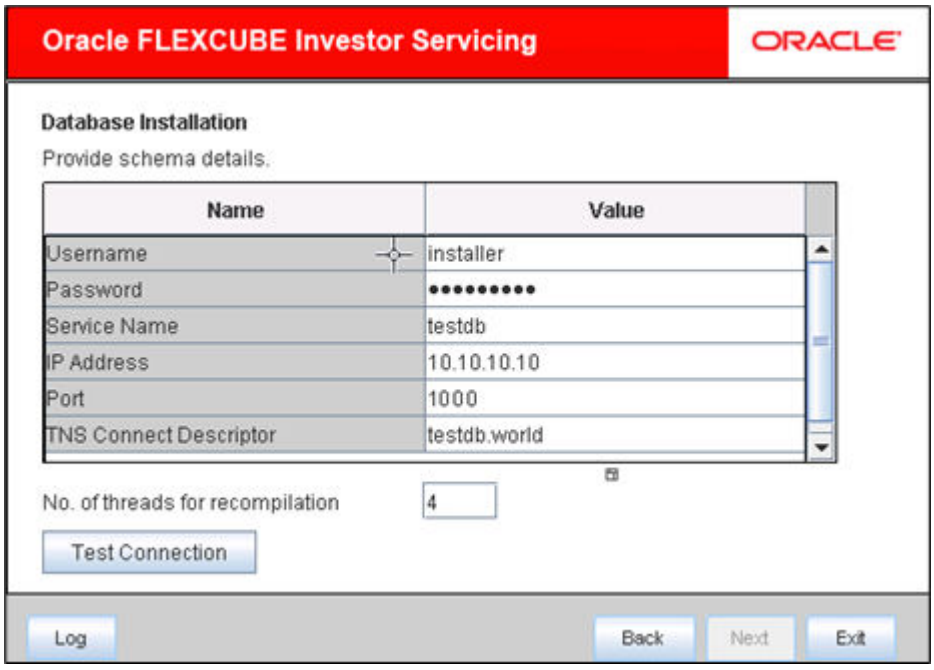
9. Specify schema details.

   Refer to the table for Schema details.

Table 4-2 Schema details

Field	Description
User Name	Specify the user name to access the schema.
Password	Enter the schema password.
Service Name	Provide service name of Database.
TNS Connect Descriptor	Specify a valid connect string that contains the details for database connectivity.
IP Address	Specify the IP address of the system where the database schema is installed.
Port	Specify the port number.

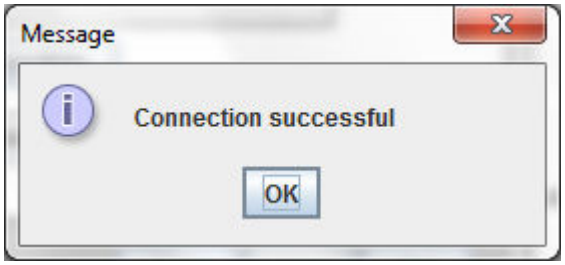
Figure 4-5 Schema Details



10. 9. Click **Test Connection** to test the connection with the Application server.

    If the connection is established, the installer displays the message `Connection Successful`.

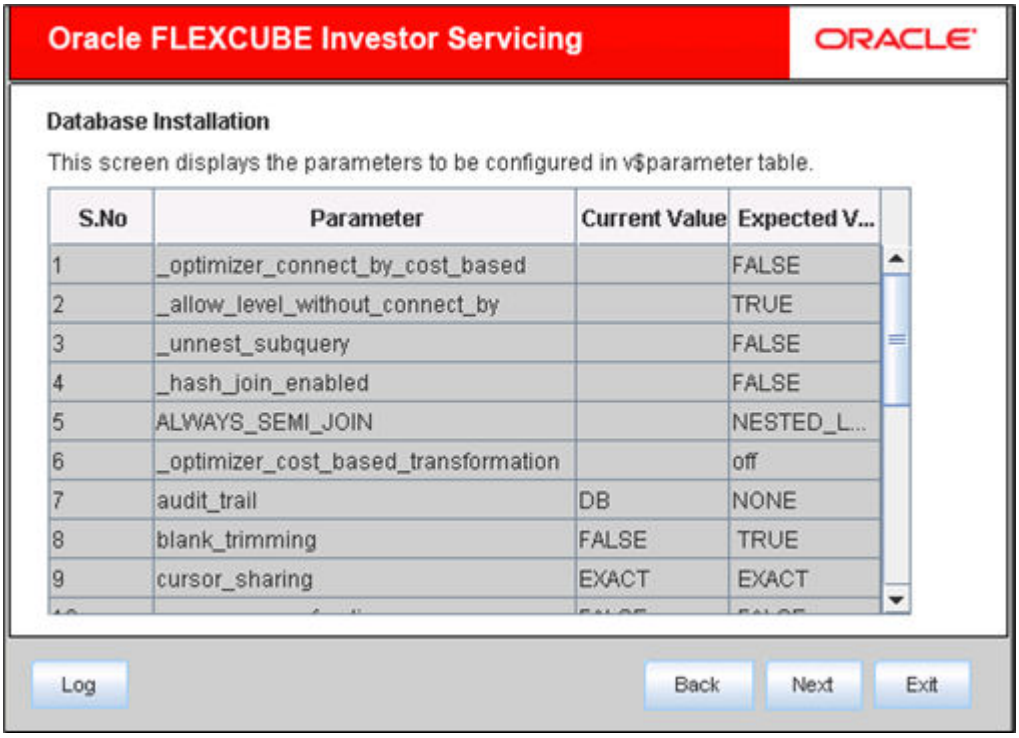
Figure 4-6 Information Message on Successful Connection



11. Click **Next** after testing the connection successfully.

    This screen displays the parameter details of the database. This is for information purpose and you cannot modify the parameters from this screen.

Figure 4-7 Parameter Table

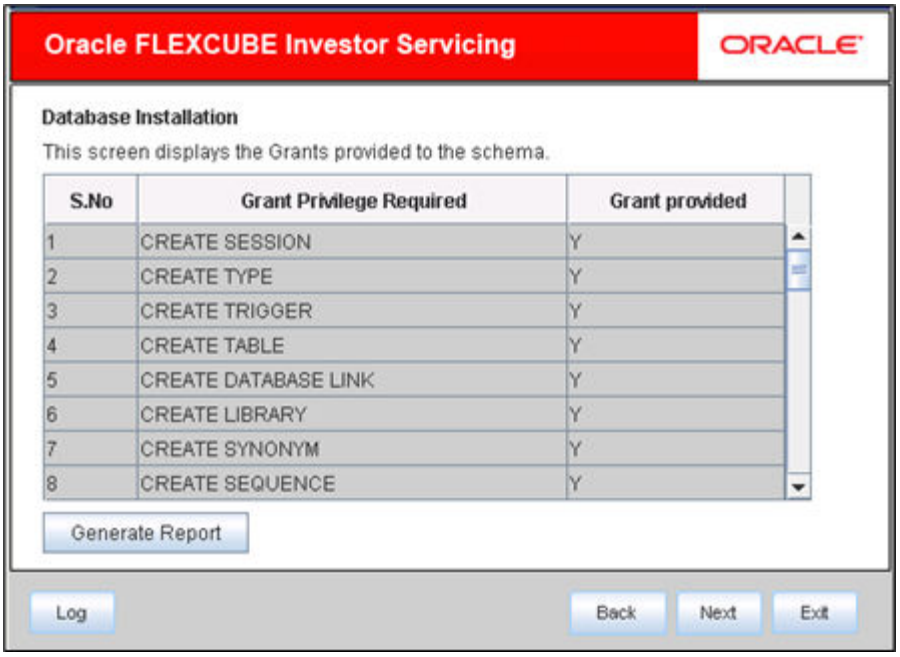


12. Click **Next**.

    If object compilation is required and the privilege is not given, then you can find that out from this screen.

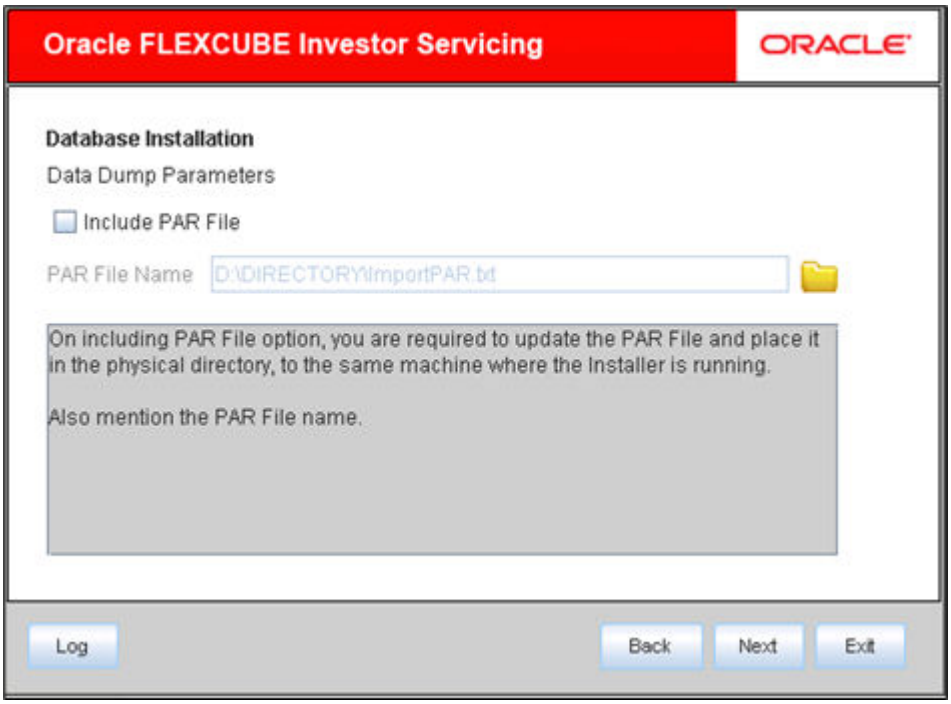
    The screen displays the grants provided to the schema. This is for information purpose only.

Figure 4-8 Grant Previlege Details



13. Click **Next** to include **PAR File**.

Figure 4-9 Include PAR File



14. Specify the PAR File details.

    Refer to the PAR File details table.

Table 4-3 PAR File Details

Field	Description
Include PAR File	Check this box to include the PAR file. If you check this box, you need to specify the PAR file name. PAR file stands for Parameter File. A PAR file is a text file that contains all valid parameters and their respective values. Maintaining the parameters in text format enables you to modify or reuse them easily.
PAR File Name	Specify the PAR file name if you have checked the box **Include PAR File**.

15. Specify the Oracle directory name. Ensure that the **Oracle Directory Name** mentioned is created in the server.

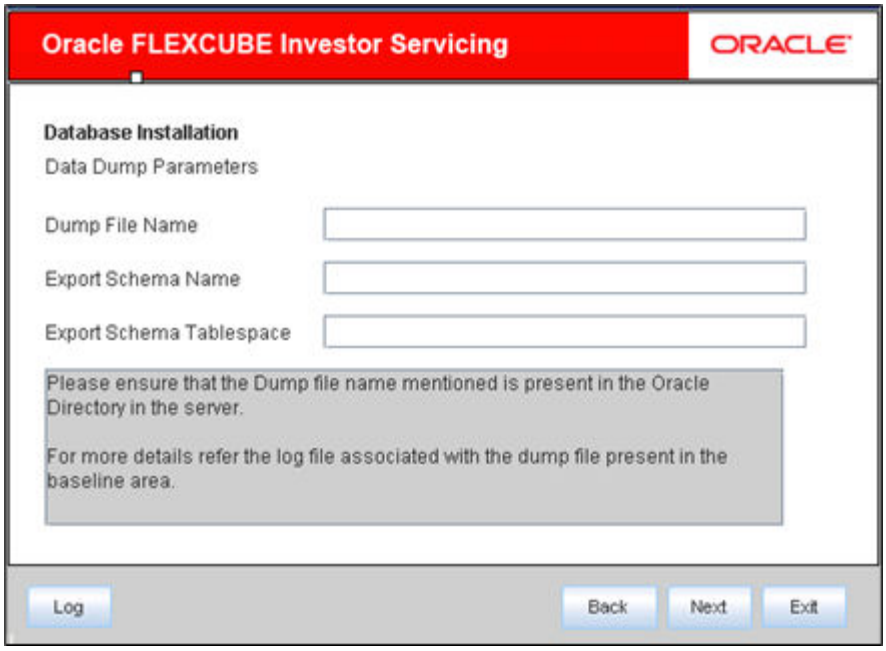
    This is the directory in the server machine where the import file is located.

Figure 4-10 Oracle Directory Name

16. Click **Next** after you have specified the Oracle directory details.

    The following screen is displayed.

Figure 4-11 Export Schema Name and Tablespace



17. For Export Data Dump Parameters, specify the following details.

    Refer to the table of Export Data Dump Parameters.

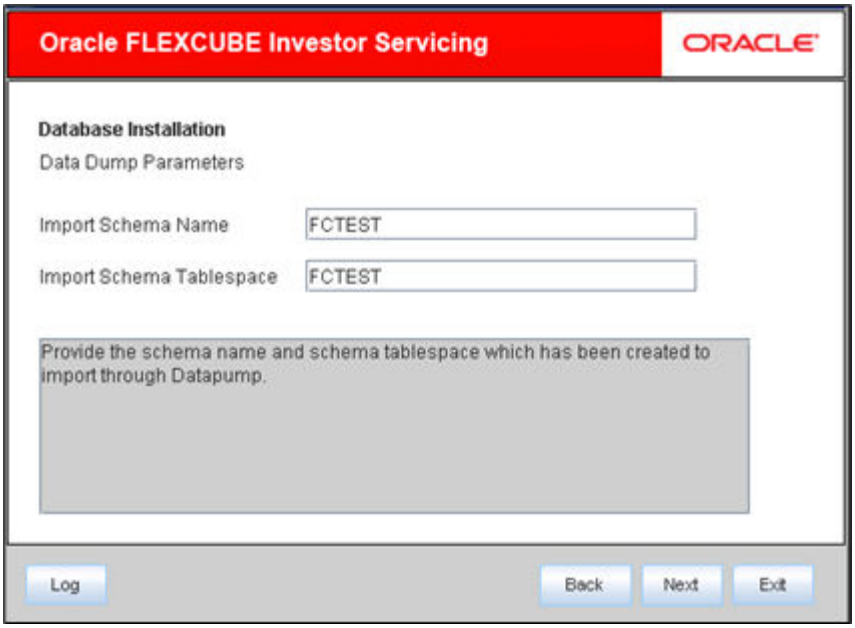
Table 4-4 Export Data Dump Parameters

Field	Description
Dump File Name	Specify the import file name.
Export Schema Name	Specify the export schema name from which the import file is imported.
Export Schema Tablespace	Specify the export schema tablespace from which the import file is imported.

18. Click **Next** after you have specified the above details.

    The following screen is displayed.

Figure 4-12 Import Schema Name and Tablespace



19. For Import Data Dump Parameters, specify the following details.

    Refer to the table of Import Data Dump Parameters.

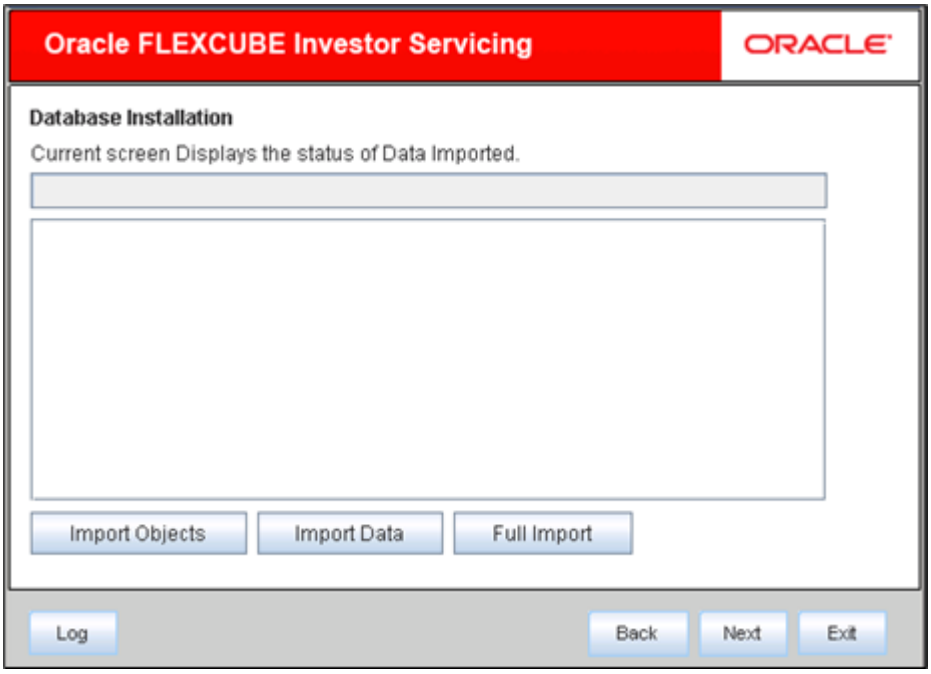
Table 4-5 Import Data Dump Parameters

Field	Description
Import Schema Name	Specify the import schema name to which the import file is loaded.
Import Schema Tablespace	Specify the import schema tablespace to which the import file is loaded.

20. Click **Next** and you can view the status of data imported.

    The following screen is displayed.

Figure 4-13 Status of Data imported



21. You can optionally import the objects, data or full set by using **Import Objects**, **Import Data** or **Full Import** buttons respectively.

    This triggers the import operation.