

Oracle Insurance Insight

**Oracle Insurance Insight
Administration Guide**

version 6.0

Part number: E15260-01

June 2009

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Preface

Welcome to the *Oracle Insurance Insight Administration Guide*. This guide presents the information you will need to manage data and user accounts in Oracle Insurance Insight (OII) using the administrative tools of Oracle Business Intelligence Enterprise Edition (OBIEE).

This is not a complete system administrator's guide for OBIEE. The purpose of this manual is to describe the basic administrative duties that you will need to perform in order to maintain the data in OII.

VERSION

This manual corresponds to Oracle Insurance Insight (OII) version 6.0.

INTENDED AUDIENCE

This manual is intended for experienced system administrators with advanced knowledge of OBIEE and OII.

RELEVANT ORACLE DOCUMENTATION

For complete documentation on OBIEE and its components, please go to the documentation section of the Oracle website to consult the following manuals:

- Oracle Business Intelligence Server Administration Guide
- Oracle Business Intelligence Presentation Services Administration Guide
- Oracle Business Intelligence Answers, Delivers, and Interactive Dashboards User Guide

The entire documentation set for OBIEE can be found on the Oracle Documentation page on the Oracle Technology Network at:

<http://www.oracle.com/technology/documentation/index.html>

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Address any additional inquiries to:

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Chapter 1

OII Administrator's Duties

Oracle Insurance Insight (OII) is a comprehensive business intelligence system created exclusively for the Property and Casualty (P&C) insurance industry that provides the following advantages:

- Consolidates data from multiple, disparate source systems to provide a strategic enterprise-wide view across operating units.
- Provides an underlying data model constructed specifically for the P&C insurance industry.
- Delivers information management, reporting and advanced analytics to end-users through the OBIEE interface.
- Accommodates all P&C lines of business and all states/provinces in the U.S. and Canada.

BASIC ADMINISTRATIVE TASKS

The OII system administrator is responsible for performing the following basic duties outlined in the table below. These tasks will be performed using components of the OBIEE and separate OII applications.

Table 1: Basic Administrative Tasks

| Task | Performed Using this Application: |
|---|---|
| <ul style="list-style-type: none">• Add users to the OII Repository• Edit the OII Repository | <ul style="list-style-type: none">• OBIEE Administration Tool |
| <ul style="list-style-type: none">• Add users to groups | <ul style="list-style-type: none">• OBIEE's Presentation Services Administration page |
| <ul style="list-style-type: none">• Manage Load Manager | <ul style="list-style-type: none">• Load Manager is a job scheduler designed to perform automated data loads into OII.• Load Manager is a separate Java based application that must be installed, configured, and run outside of the OBIEE system.• Instructions for installing and setting up Load Manager can be found in the <i>Oracle Insurance Installation Guide</i>.• For information on configuring and using Load Manager, refer to <i>Chapter 5: Using Load Manager</i>. |
| <ul style="list-style-type: none">• Create an ODBC Data Source to the OBIEE Server | <ul style="list-style-type: none">• Control Panel>Administration Tools>Data Sources on your desktop |

ADMINISTRATOR PREREQUISITES

Any system administrator should meet the following prerequisites:

- Strong Technical Skills
- Understanding of business data
- Understanding of OBIEE
- Understanding of OII

Chapter 2

Managing the OII Repository

This chapter describes the following OII administrative duties:

- Logging into the OBIEE Administration Tool
- Adding new users to the OII Repository
- Removing objects from the OII Repository

OPENING THE OII REPOSITORY

To open the OBIEE Administration Tool:

1. From the Start menu select **Oracle Business Intelligence > Administration**.

The Administration interface workspace opens:

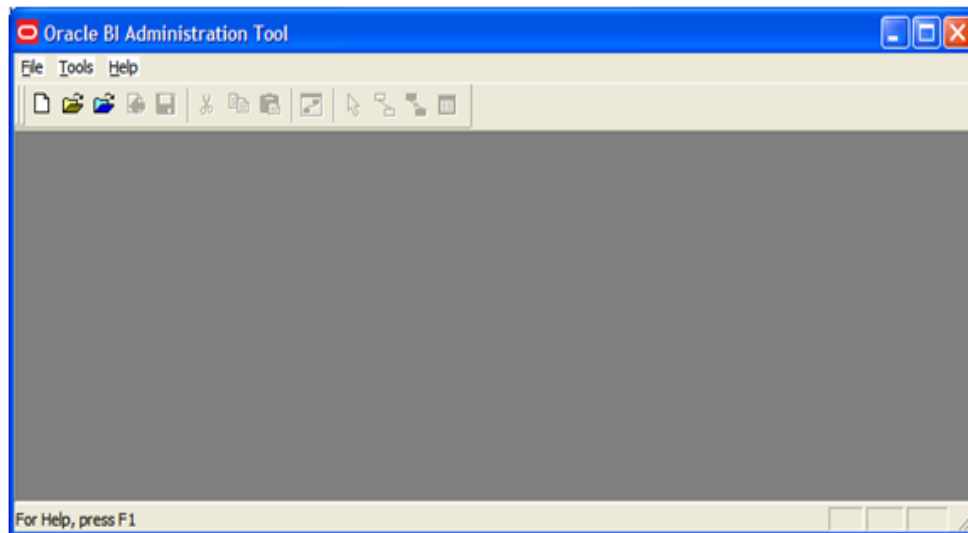


Figure 1: OBIEE Administration Workspace

2. Select **File>Open** from the menu or click on the Open icon. The login dialog box opens.

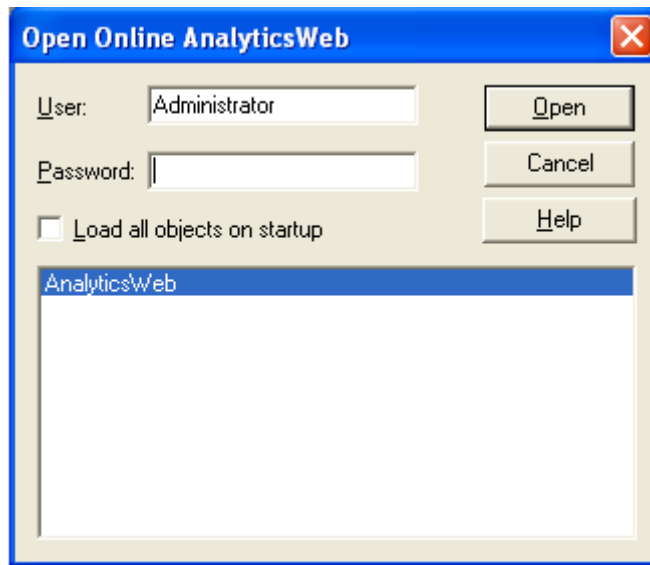


Figure 2: Open OII Repository (AnalyticsWeb)

3. Enter the Administrator ID and password
4. Select “AnalyticsWeb” and press **OK**. The OII repository opens.

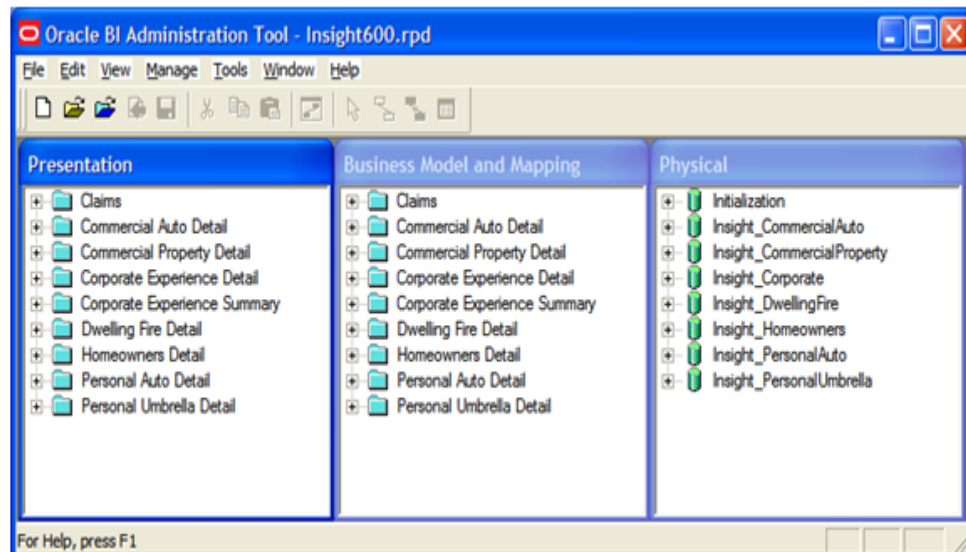


Figure 3: OII Repository in the OBIEE Administration Tool

The OII Repository contains three layers.

- **Presentation Layer** – this pane represents the physical structure of the OII repository. This layer shows each mart in the repository. When you expand a mart it will display a list of all metrics and fields contained in the mart. This is the layer you will be most concerned with and will be the one that you edit directly.
- **Business Model and Mapping layer** – this pane represents the logical structure of the information in the OII repository

- **Physical Layer** – this pane represents the physical structure of the data sources to which the OBIEE Server submits queries.

ADDING A NEW USER TO THE OII REPOSITORY

To add a new user to the OII Repository:

1. From the top menu, select **Manage>Security**. The Security Manager appears.

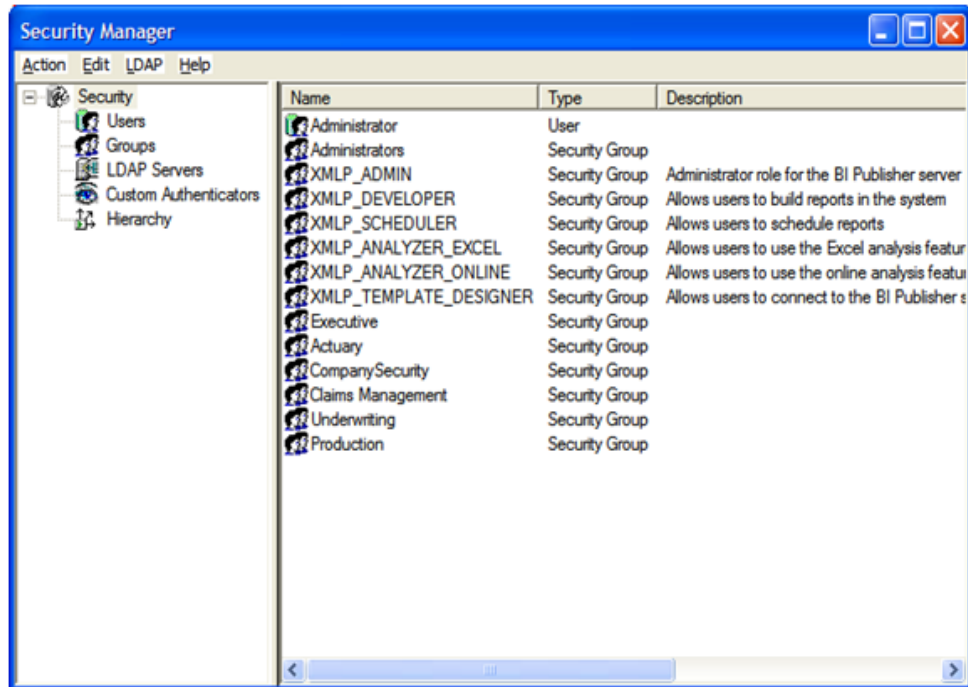


Figure 4: Security Manager

2. From the menu, select **Action>New>User**. The Add New User screen opens:

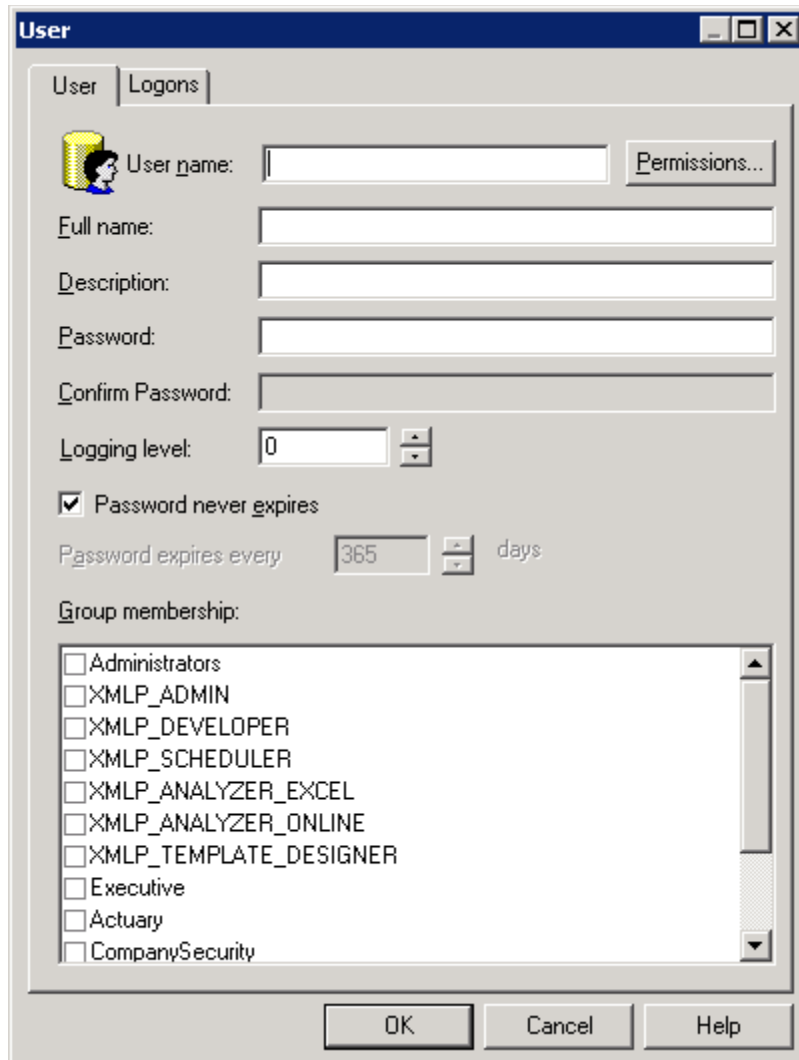


Figure 5: Add New User Screen

3. Enter the information at the fields on this screen as required.
4. Check the appropriate group(s) that you want to assign to the user. There are five OII groups:
 - Actuary
 - Claims Management
 - Executive
 - Production
 - Underwriting

Note The administrator can also add users to groups within OII.

- Click **OK** after you have entered the user information and selected the groups.

Figure 6: New User Information

- Close the Security Manager.
- On the top menu, click on the **Checkin** icon (the one with the red arrow).
- Save the OII repository.
- Close the OII repository and exit from the Administration Tool.
- Open the Oracle Business Intelligence screen for OII and login as the Administrator.
- Log out of the OBIEE.
- Log into OBIEE as the new user.
- Log out.

The new user has now been added to the OBIEE.

EDITING A USER

To edit a user in the OII Repository:

1. From the top menu, select **Manage>Security**. The Security Manager appears.

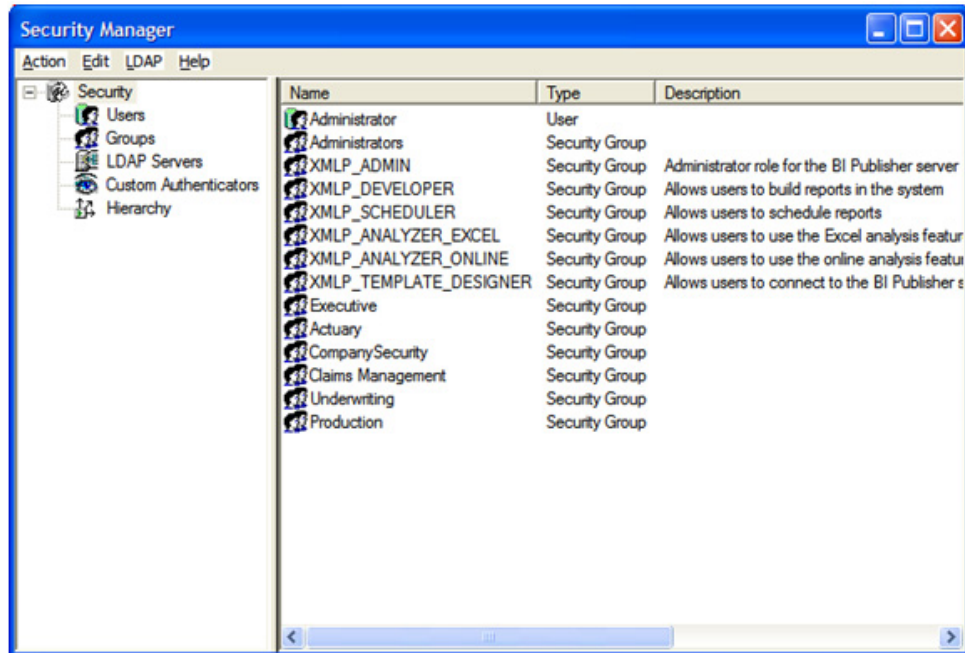


Figure 7: Security Manager

2. In the left frame click on the Users icon. The accounts in the frame of the right will be sorted alphabetically by user.
3. Double-click on a user. A dialog box will appear and ask you if you want to check out the selected user.
4. Select **Yes** and the **User** box opens:

Figure 8: Edit User

5. Edit the user's information and click the OK Button when you are through.

The checkout icon on the top menu will become active.

6. On the top menu, click on the **Checkin** icon (the one with the red arrow).
7. Save the OII repository.
8. Close the OII repository and exit from the Administration Tool.
9. Open the Oracle Business Intelligence screen for OII and login as the Administrator.

REMOVING A METRIC OR FILTER FROM THE REPOSITORY

On occasion, a need may arise to remove metrics or filter fields from the OII repository that are not applicable to users. The administrator can remove any metrics or fields from the Presentation Layer of the OII Repository so that they will not appear within the OBIEE.

Note The removal of any metric or filter from the OII Repository is permanent!
Before you delete any object from the Presentation Layer, ALWAYS make a backup of the OII Repository.

To Delete a Metric or Filter:

1. Expand the mart and category containing the metric or filter you want to delete.
2. Highlight the metric or filter and select **Edit>Delete** from the top menu.

A dialog box will appear asking if you want to check the item out.

3. If you're sure then click **Yes** in the dialog box.

The item will be deleted and the **Checkin** icon on the menu will become active.

4. Click on the **Checkin** icon.
5. Click the **Save** icon.
6. Close the repository and exit the Administration Tool.
7. Log into OBIEE and go to the mart that contained the metric or filter. The deleted item will no longer appear in the interface.

Chapter 3

Managing User Accounts in OBIEE

Once a user has been added to the OII Repository, the administrator will need to add them to the same group within OBIEE Presentation Catalog through the OBIEE Presentation Services Administration page within the OBIEE GUI.

OPENING THE OBIEE ADMINISTRATION PAGE

1. Log into OBIEE as an Administrator.

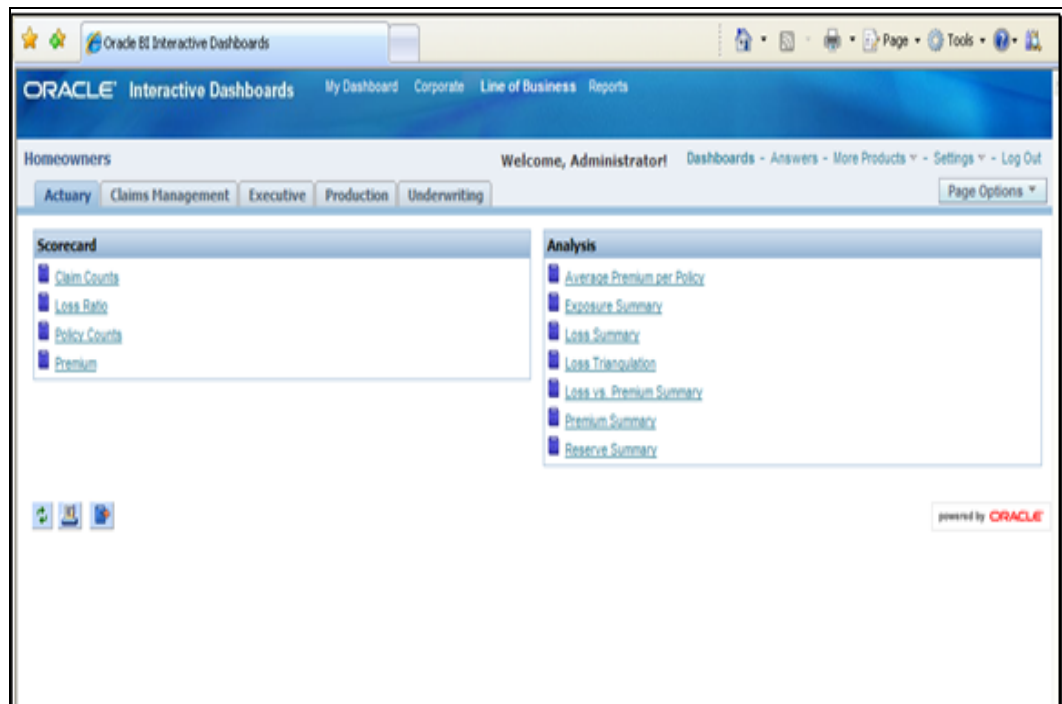


Figure 9: The OBIEE Home Page

2. Click on **Settings>Administration**.

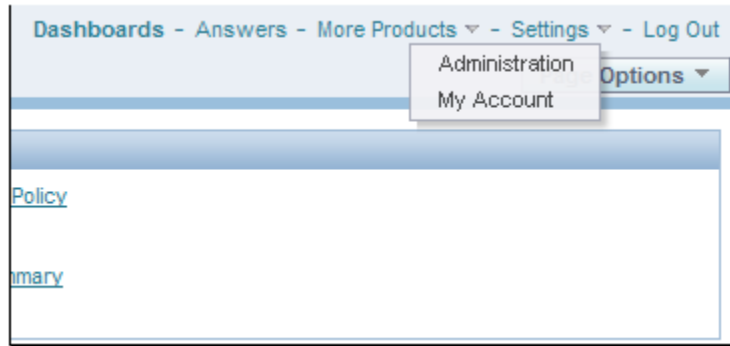


Figure 10: Administration Menu in OBIEE

The OBIEE Presentation Services Administration page opens:

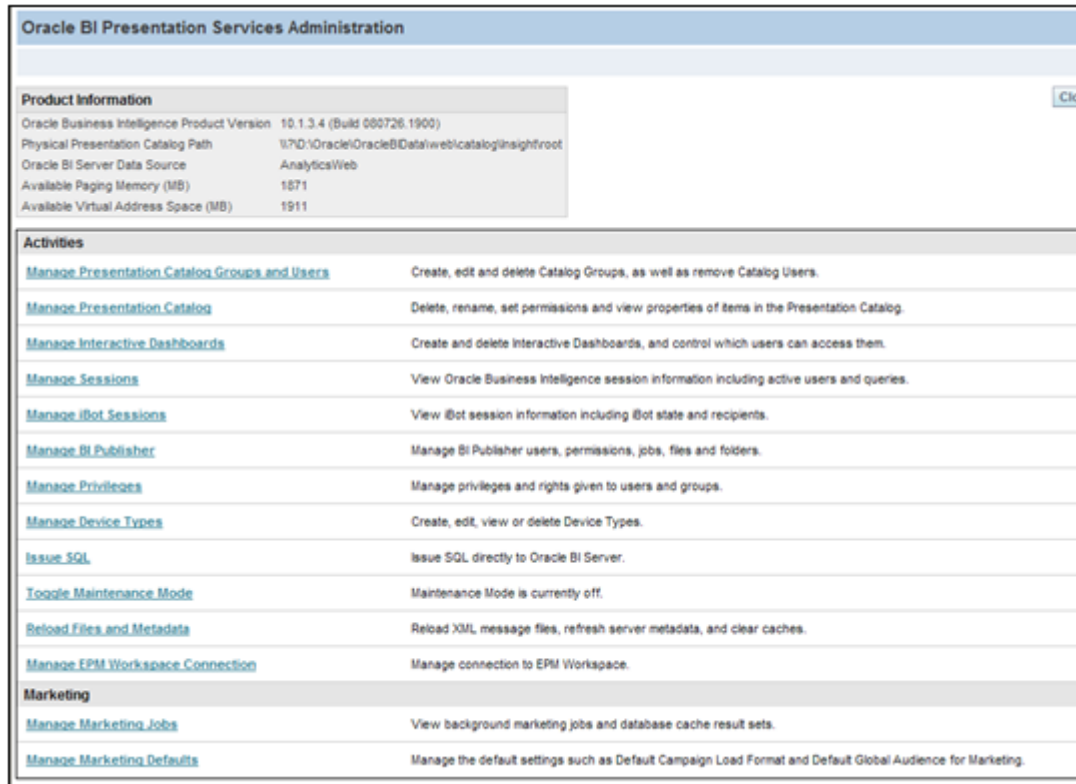


Figure 11: OBIEE Presentation Services Administration

This screen allows you to manage various aspects of the OBIEE interface. For our intents and purposes, this document only discusses the features that relate to managing user accounts.

For a comprehensive discussion of the OBIEE Presentation Services Administration screen, refer to the *Oracle Business Intelligence Presentation Services Administration Guide*.

ADDING A MEMBER TO A GROUP

Users can be assigned to one or more of the five OII groups when they are initially added to the OII repository using the Oracle Administrative Tool. After the user is created, you can use the Administrative link in OBIEE to assign them to other groups.

To add a member to a group, follow these instructions:

1. The new user account needs to be logged in at least once prior to this step so that it would be available in the Presentation Catalog Users List. Just login as that user with the matching password and logout. Then login as the Administrator again.
2. On the OBIEE Presentation Services Administration screen, click the [Manage Presentation Catalog Groups and Users](#) link under the **Activities** section.
3. The **Presentation Catalog Security: Groups and Users** screen opens.



Figure 12: Groups and Users Screen

This screen lists the five OII groups along with the Administrator group. To view all current users and groups in alphabetical order, click on the [Show users and groups](#) link:

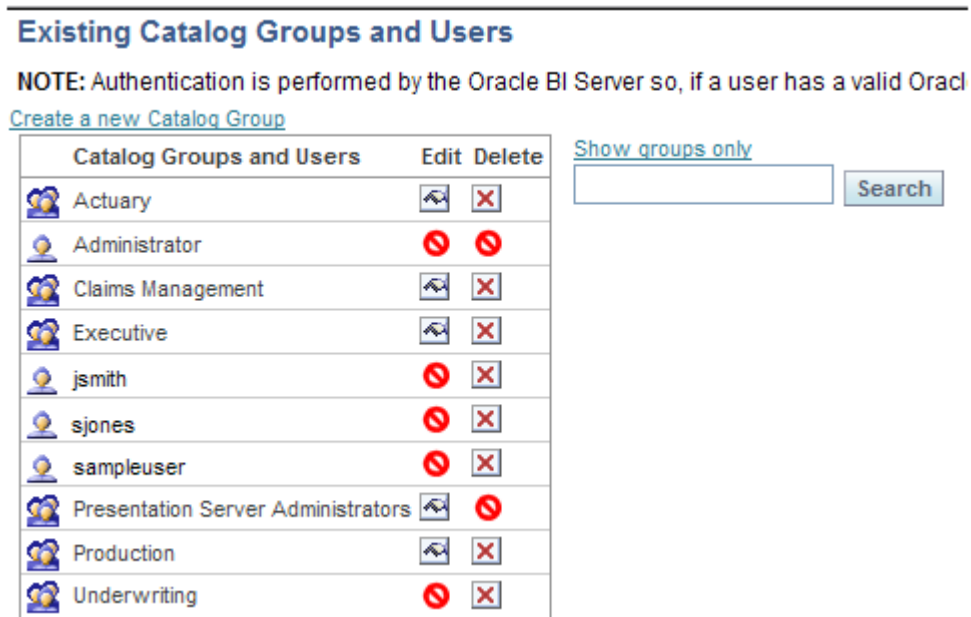



Figure 13: All Current Users and Groups in the System

4. Click on the  icon in the row of the group that you want to add a user to. For this example we will add a member to the Underwriting group.
5. The **Edit Catalog Group** screen opens.

The Group Membership section of the screen lists all of the current members of the selected group. In the figure below the Underwriting group has two other groups as members: Claims management and Executive. This means that all members of these two groups also belong to Underwriting.

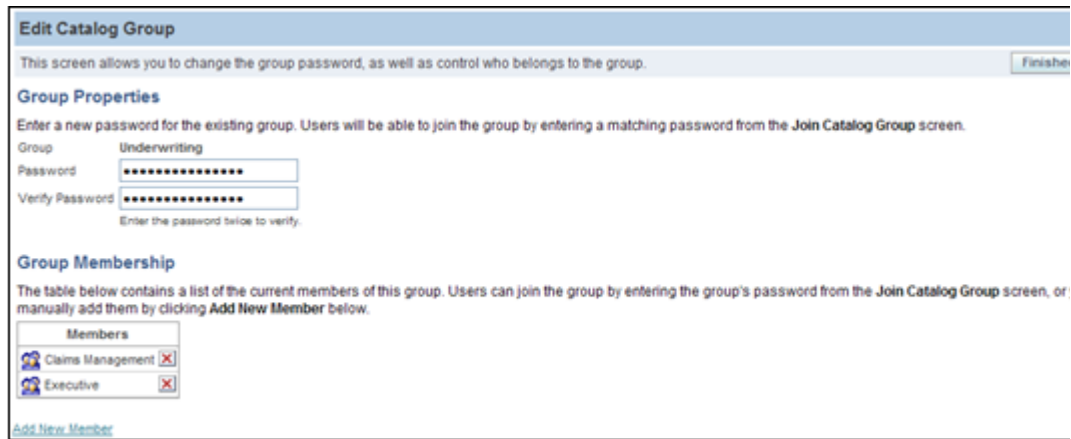


Figure 14: Edit Catalog Group Screen

6. Click on the Add New Member link.

The **Add Member to Group** screen opens.



Figure 15: Add Member to Group Screen

- Click on the [Add](#) link in the row of the group or user that you want to add to the group.

You will be returned to the **Edit Catalog Group** screen. Under the **Group Membership** section you will see the new user under the list of members.

Edit Catalog Group

This screen allows you to change the group password, as

Group Properties

Enter a new password for the existing group. Users will be

Group: Underwriting

Password:

Verify Password:

Enter the password twice to verify.

Group Membership

The table below contains a list of the current members of manually add them by clicking **Add New Member** below.

| Members | |
|-------------------|--------------------------|
| Claims Management | <input type="checkbox"/> |
| Executive | <input type="checkbox"/> |
| jsmith | <input type="checkbox"/> |

[Add New Member](#)

Figure 16: User is Added to the Group

- Click the **Finished** button in the right hand corner of the screen. You will be returned to the **Presentation Catalog Security: Groups and Users** screen.
- Click on the **Finished** button on this screen. You will be returned to the **OBIEE Presentation Services Administration Screen**.
- Click **Close Window** to close this window.



DELETING A MEMBER OF A GROUP

To delete a member from a group, follow these instructions:

1. Select the Manage Presentation Catalog Groups and Users link on the **OBIEE Presentation Services Administration** screen to open the **Presentation Catalog Security: Groups and Users** screen.



Figure 17: Presentation Catalog Security: Groups and Users Screen

2. Click on the  icon in the row of the group that contains the user that you want to delete. The **Edit Catalog Group** screen opens.
3. Under the Group Membership section of the screen, click the  icon in the row on the member. The screen will refresh and the user will be removed from the list.
4. Click the **Finished** button. You will be returned to the **Presentation Catalog security: Groups and Users** screen.
5. Clicked the **Finished** button on this screen. You will be returned to the **OBIEE Presentation Services Administration Screen**.
6. Click **Close Window** to close this window.

Chapter 4

Creating an ODBC Data Source for BI Server

OII requires an ODBC data source to connect to the OBIEE Server. This appendix walks you through the steps to configure a data source. There are a variety of data source interfaces available but for this example we will use an ODBC configuration to MS SQL 2005 using the “Insight” data source name.

1. Open the ODBC Data Source Administrator from **Control Panel>Administrative Tools**.

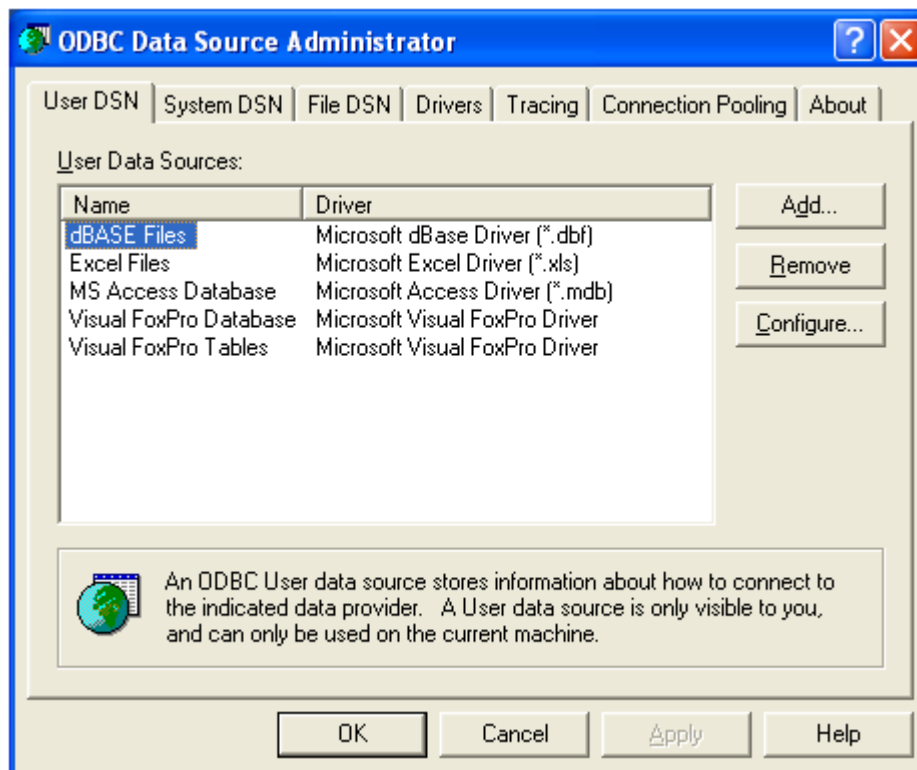


Figure 18: ODBC Data Source Administrator

2. Click the **System DSN** tab. The following screen appears.

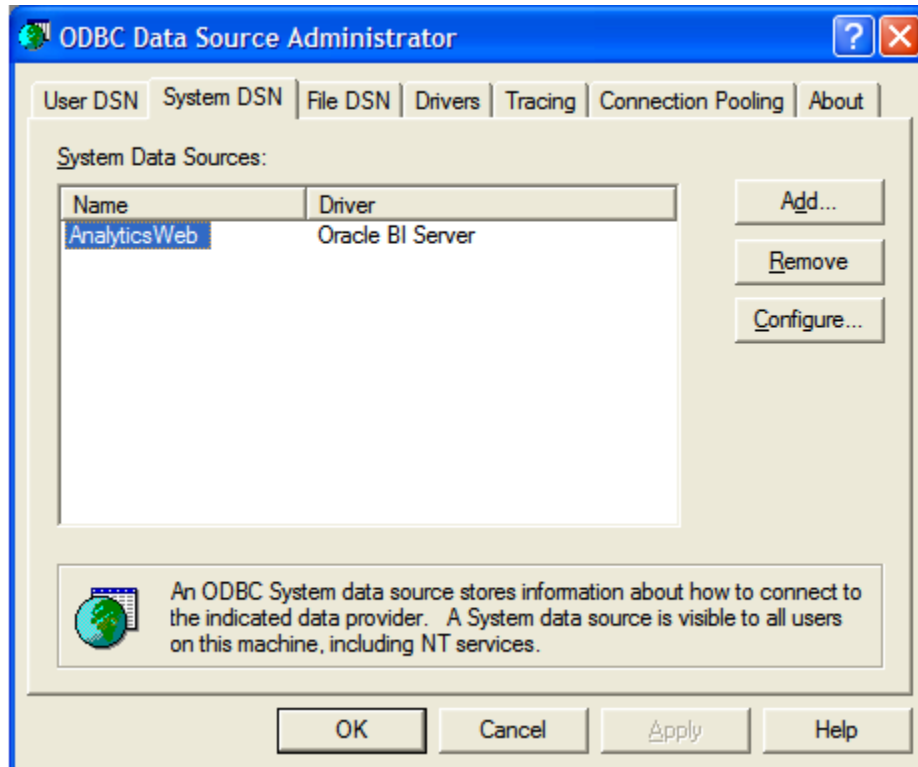


Figure 19: System DSN Tab

3. Highlight “AnalyticsWeb” and click the **Add...** button to add a data source available to all users on the computer. The following screen appears.

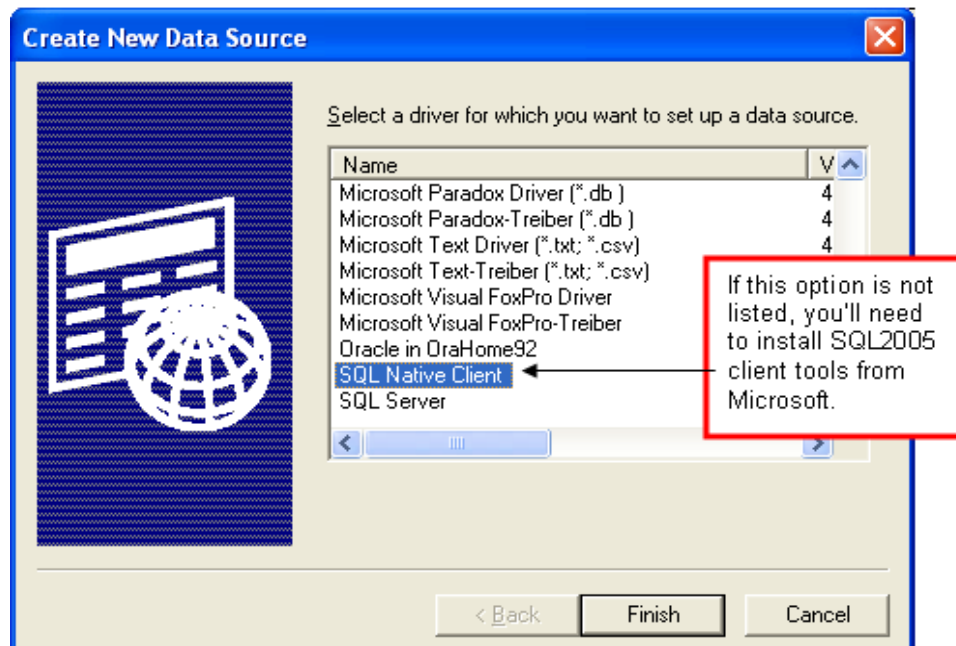


Figure 20: Creating a New Data Source

4. Select **SQL Native Client** and click the **Finish** button. The following screen appears.

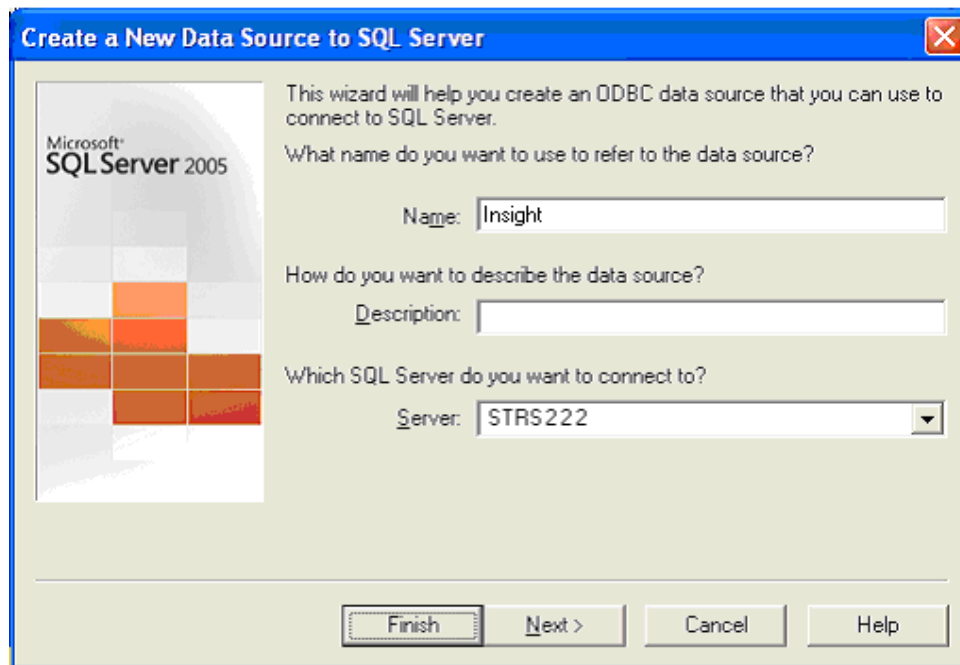


Figure 21: Naming New Data Source

5. Enter **Insight** for the “Name” and fill out the appropriate host name for your SQL database server.
6. Click the **Next >** button. The following screen appears.

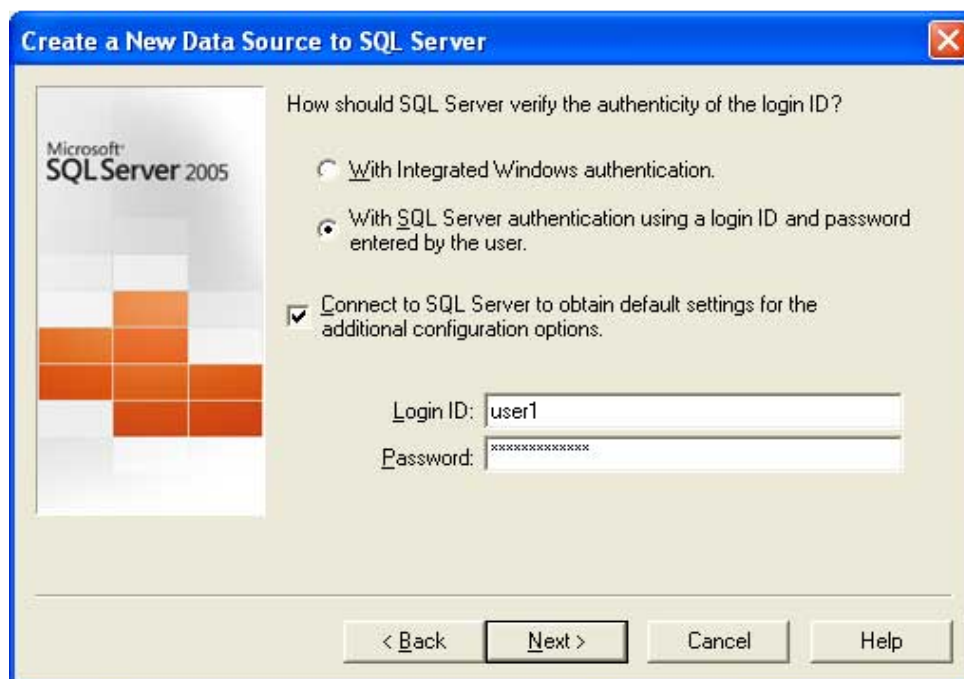


Figure 22: Setting SQL Server Authentication for New Data Source

7. Select the **With SQL Server Authentication...** radio button and enter a login ID and password.

8. Click the **Next >** button. The following screen appears.

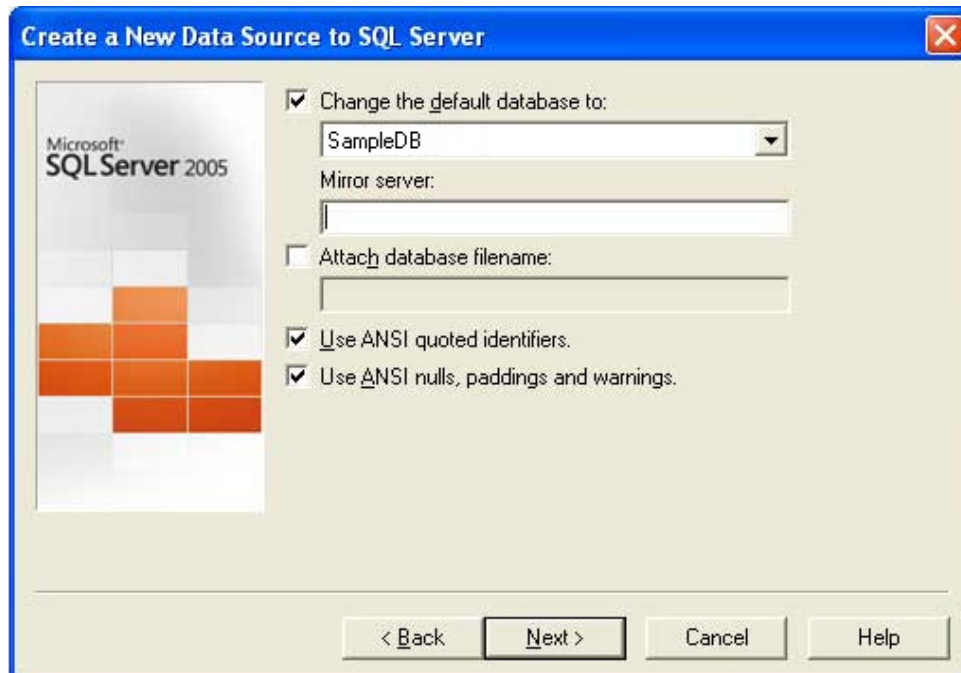


Figure 23: Setting Default for New Data Source

9. Select the default database for your database from the drop down menu.

10. Click the **Next >** button. The following screen appears.

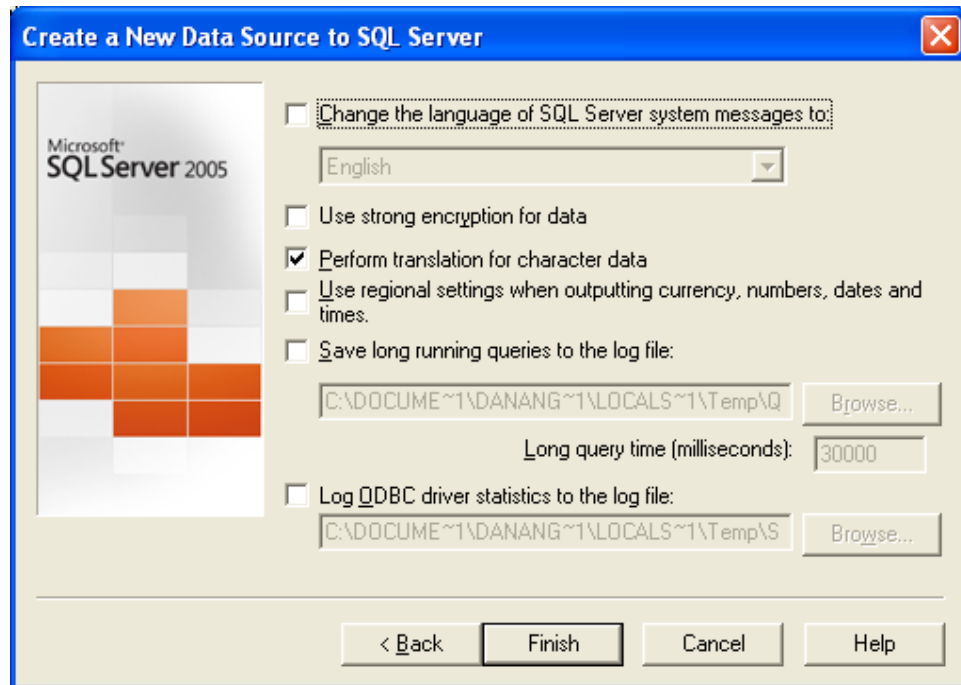


Figure 24: A New Data Source

11. Click **Finish**. The following message screen appears.

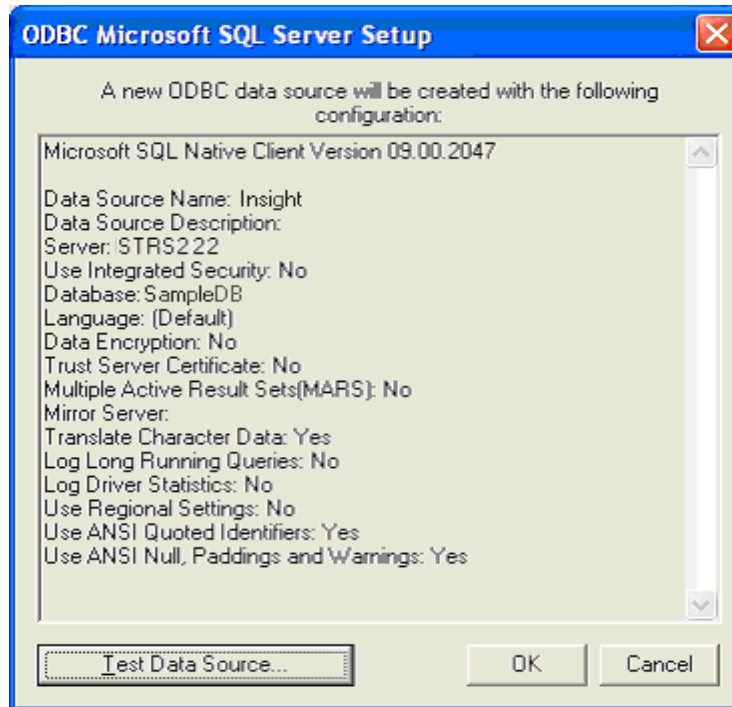


Figure 25: Testing New Data Source

12. Click **Test Data Source...** to test the data source. A successful test message similar to this one appears.

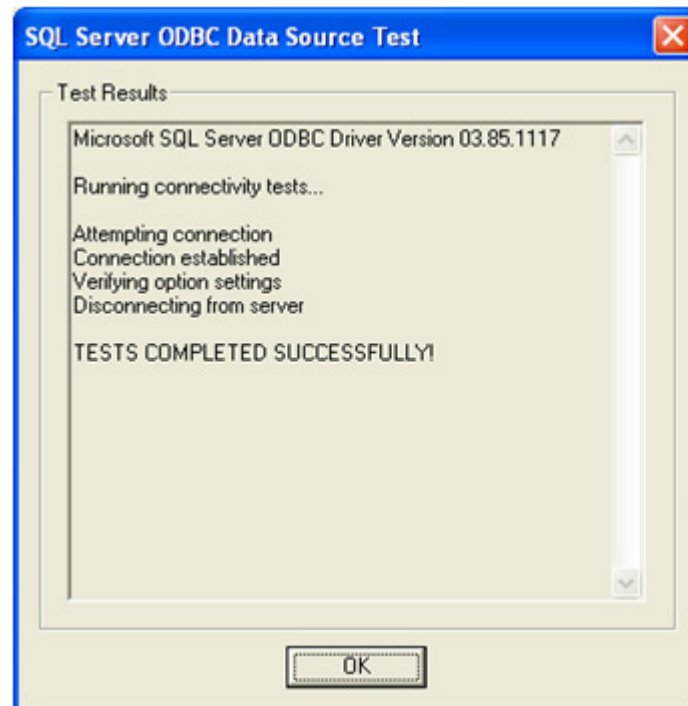


Figure 26: Successful Data Source

13. Click **OK** to complete the creation of the data source.

Chapter 5

Using Load Manager

The steps below provide an outline of the process to set-up, configure and run a Load Manager instance.

The first three items are required to set-up Load Manager and are performed one time per installation.

- Setup database tables.
- Install & configure the Load Manager Engine as a Windows Service.
- Install & configure the Load Manager GUI application on the Application Server.
- Login to the Load Manager application.
- Define the Jobs along with any attributes, such as, sequential, durable, scheduler string and scheduler start / stop time.
- Define the Job Steps and corresponding Job Step parameters.
- Assign defined Job Steps (newly defined or existing jobs).
- Start the Job.
- Monitor the Job.

USING THE LOAD MANAGER GUI

Once you have completed the installation of Load Manager you are now ready to set-up the jobs. There are three main components to setting up jobs in Load Manager:

- Define the Job
- Configure the Job
- Execute the Job

To set up a job, the job must first be defined by using the interface to set up the following job tables: Job_Step, Job_Step_Assignment and Job_Step_Parameter. After defining the job, the starting parameter must be defined either on a scheduled basis (specific day, month, time) or based on a trigger. Finally, the job must be set-up to execute on either a one-time basis or to run continuously based upon the job schedule. Each of these items will be explained in further detail below.

Note A Job with the Job Id 1 is reserved for refreshing all Load Manager jobs. It can be associated with any type of trigger or with any scheduler.

JOB SUMMARY

To use the Load Manager GUI, point your browser to <http://<machine>/load/Load.do> to see the Job Summary screen pictured below.

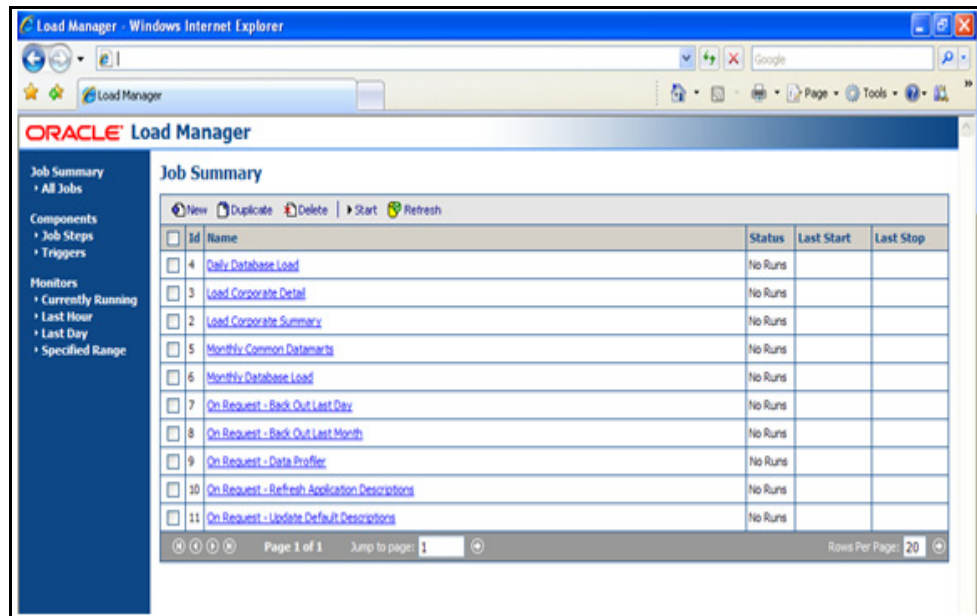


Figure 27: Initial Job Summary Screen

Base Configuration of Jobs

This version of Load Manager is delivered with the following base configuration of pre-defined jobs:

Table 2: Load Manager Jobs

| JOB | DESCRIPTION |
|--------------------------|--|
| Daily Jobs | |
| Daily Database Load | Daily job to load all lines of business daily and common marts (CSP, CXDP, CMP, DCSP, DCXDP, CDDP) |
| Monthly Jobs | |
| Monthly Common Datamarts | Monthly job to load all lines of business common marts (CSP, CXDP, CMP) |
| Monthly Database Load | Monthly job to load all lines of business monthly and common marts (CADP, CPDP, DFD, HODP, PADP, UPDP) |

Table 2: Load Manager Jobs (Continued)

| JOB | DESCRIPTION |
|---|---|
| On Request Jobs | |
| On Request Data Profiler | On request job to execute data profiler only |
| On Request Refresh Application Descriptions | On request job to refresh application descriptions |
| On Request Update Default Descriptions | On request job to translate all "Unknown" descriptions to equal their code values |
| On Request - Back Out Last Day | Backout job for the last day loaded into the warehouse and marts |
| On Request - Back Out Last Month | Backout job for the last month loaded into the warehouse and marts |
| Datamart Specific Loading Jobs | |
| Load Corporate Detail | Load only CXDP datamart |
| Load Corporate Summary | Load only CSP datamart |

Buttons

There are several buttons on the screen:

- **New:** Creates a new job.
- **Duplicate:** Duplicates a new job from an existing job. This feature saves time when setting up similar jobs.
- **Delete:** Deletes an existing job, if the job is not running. All corresponding job steps will also be deleted, if the steps are not associated with any other jobs.
- **Start:** Starts a job. If a job does not have a trigger or scheduled run time you can start it immediately from this screen. Otherwise, it will be executed based on the specified settings.
- **Refresh:** Refreshes all jobs. Each time a job is modified, it will be automatically updated in the job scheduler. However, the refresh button can be used for any reason to force an update.

Menu Items

The menu items along the left side will be described in more detail as the job setup is explained:

- **All Jobs:** This will bring you back to Job Summary page.
- **Job Steps:** This will list all available Job Steps.
- **Triggers:** This will list all available Job Triggers.
- **Monitors**

- **Currently Running:** Lists all running jobs.
- **Last Hour:** Lists all jobs started within the last hour.
- **Last Day:** Lists all jobs started within the last day.
- **Specified Range:** Lists all jobs in the user specified range.

NEW/EDIT JOB

To create a new Job or edit an existing Job, follow the steps below. To create a new Job, click on the button “New”.

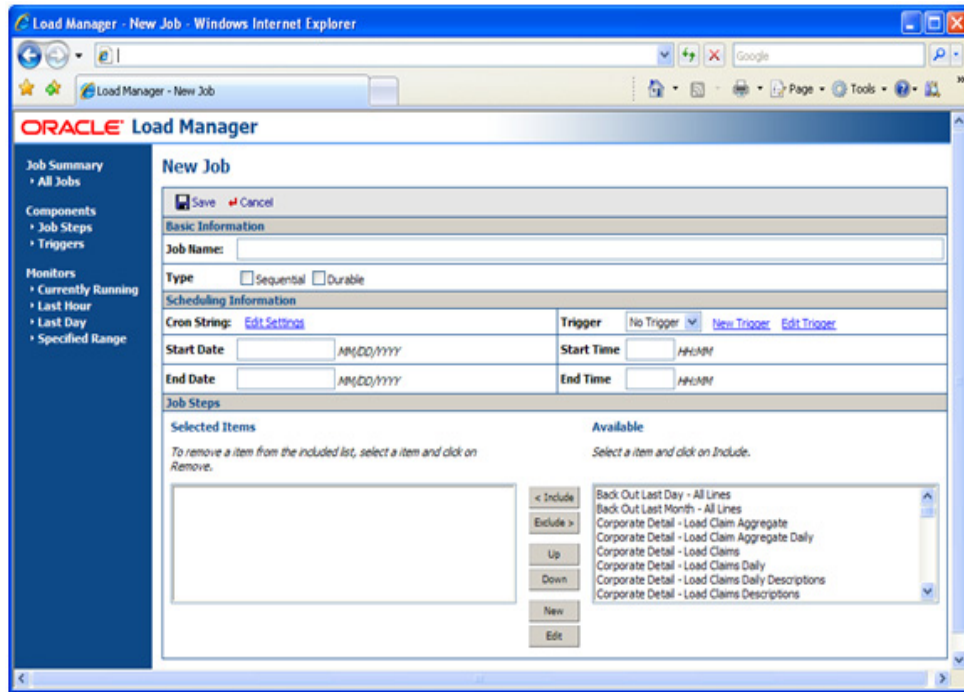


Figure 28: Creating a New Job

Job Attributes

- **Job Name:** Enter a Job Name. This field has a limitation of 50 characters. A Job with the Job Id 1 is reserved for refreshing all Load Manager jobs. It can be associated with any type of trigger or with any scheduler.
- **Type**
 - **Sequential:** All jobs defined as sequential will be executed one after another.
 - **Durable:** All jobs without durable specified will be executed only once. Otherwise, the job can be executed again and again based on the trigger and scheduler settings.

- **Scheduling Information**
 - **Start Date:** Start Date in the format of MM/DD/YYYY. No start date means start at the earliest possible date.
 - **End Date:** End Date is in the format of MM/DD/YYYY. No end date means it has no expiration date for execution.
 - **Start Time:** Start Time is in the format of HH:MM. No start time means start at the earliest possible time.
 - **End Time:** End Time is in the format of HH:MM. No end time means the end of the day.

Scheduler Settings (Cron String)

This is the most complicated portion of setting up a job. This will only be needed if the job is to be executed on a specific time schedule. Click on “Edit Settings” next to “Cron Strings” to access the Cron String Setting page. The screen will default to “Seconds”.

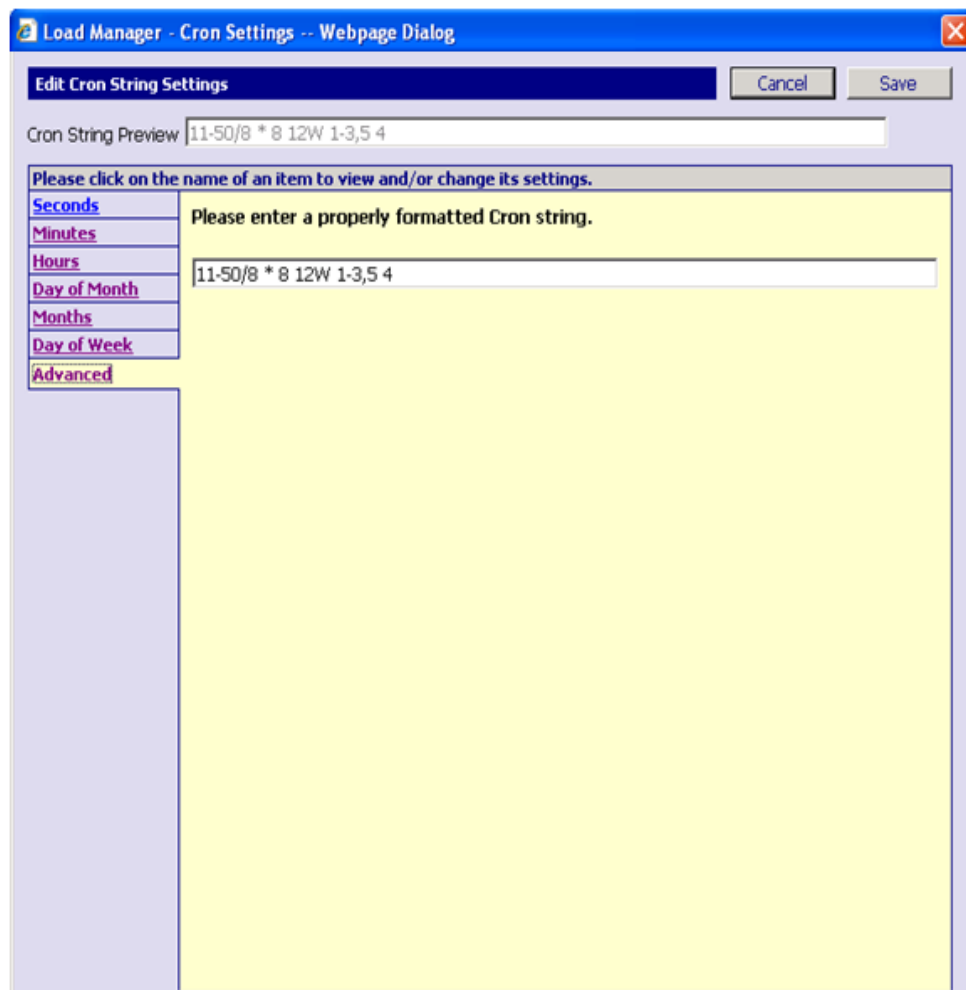


Figure 29: Editing Cron String Settings – Advanced Tab

If you know how to construct a cron string, use the “Advanced” tab to simply enter the final string, instead of following each step described in the Scheduler Settings section.

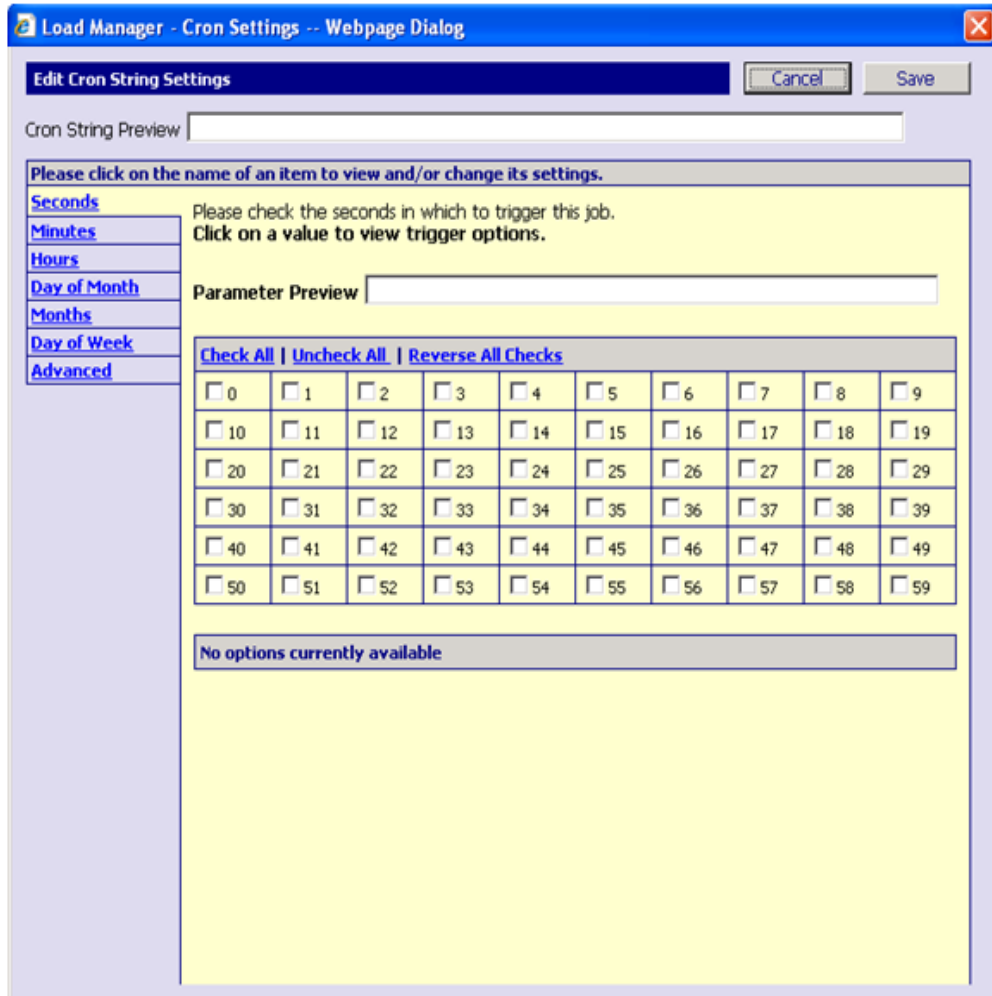


Figure 30: Edit Cron String Settings – Seconds Tab

Click on any of the seconds and the job will be setup to execute on the selected second. Marking a box brings up more options and displays the Cron String in the Cron String Preview area along the top of the screen:

Edit Cron String Settings [Cancel] [Save]

Cron String Preview: 11 * * * * ?

Please click on the name of an item to view and/or change its settings.

Seconds Please check the seconds in which to trigger this job. Click on a value to view trigger options.

Parameter Preview: 11

Check All | Uncheck All | Reverse All Checks

| | | | | | | | | | |
|-----------------------------|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | <input type="checkbox"/> 7 | <input type="checkbox"/> 8 | <input type="checkbox"/> 9 |
| <input type="checkbox"/> 10 | <input checked="" type="checkbox"/> 11 | <input type="checkbox"/> 12 | <input type="checkbox"/> 13 | <input type="checkbox"/> 14 | <input type="checkbox"/> 15 | <input type="checkbox"/> 16 | <input type="checkbox"/> 17 | <input type="checkbox"/> 18 | <input type="checkbox"/> 19 |
| <input type="checkbox"/> 20 | <input type="checkbox"/> 21 | <input type="checkbox"/> 22 | <input type="checkbox"/> 23 | <input type="checkbox"/> 24 | <input type="checkbox"/> 25 | <input type="checkbox"/> 26 | <input type="checkbox"/> 27 | <input type="checkbox"/> 28 | <input type="checkbox"/> 29 |
| <input type="checkbox"/> 30 | <input type="checkbox"/> 31 | <input type="checkbox"/> 32 | <input type="checkbox"/> 33 | <input type="checkbox"/> 34 | <input type="checkbox"/> 35 | <input type="checkbox"/> 36 | <input type="checkbox"/> 37 | <input type="checkbox"/> 38 | <input type="checkbox"/> 39 |
| <input type="checkbox"/> 40 | <input type="checkbox"/> 41 | <input type="checkbox"/> 42 | <input type="checkbox"/> 43 | <input type="checkbox"/> 44 | <input type="checkbox"/> 45 | <input type="checkbox"/> 46 | <input type="checkbox"/> 47 | <input type="checkbox"/> 48 | <input type="checkbox"/> 49 |
| <input type="checkbox"/> 50 | <input type="checkbox"/> 51 | <input type="checkbox"/> 52 | <input type="checkbox"/> 53 | <input type="checkbox"/> 54 | <input type="checkbox"/> 55 | <input type="checkbox"/> 56 | <input type="checkbox"/> 57 | <input type="checkbox"/> 58 | <input type="checkbox"/> 59 |

Trigger Options for 11 second

Please check the appropriate option(s).

Beginning at the selected second, trigger every 1 seconds and until 59 seconds.

Figure 31: Trigger Options for Seconds

The Trigger Options setting allows the job to be executed not only on the selected second, but to also be invoked on a recurring basis (for example, trigger job to start every 8 seconds until 50 seconds is reached). Mark the check box under Trigger Options and select the proper interval values, if desired.

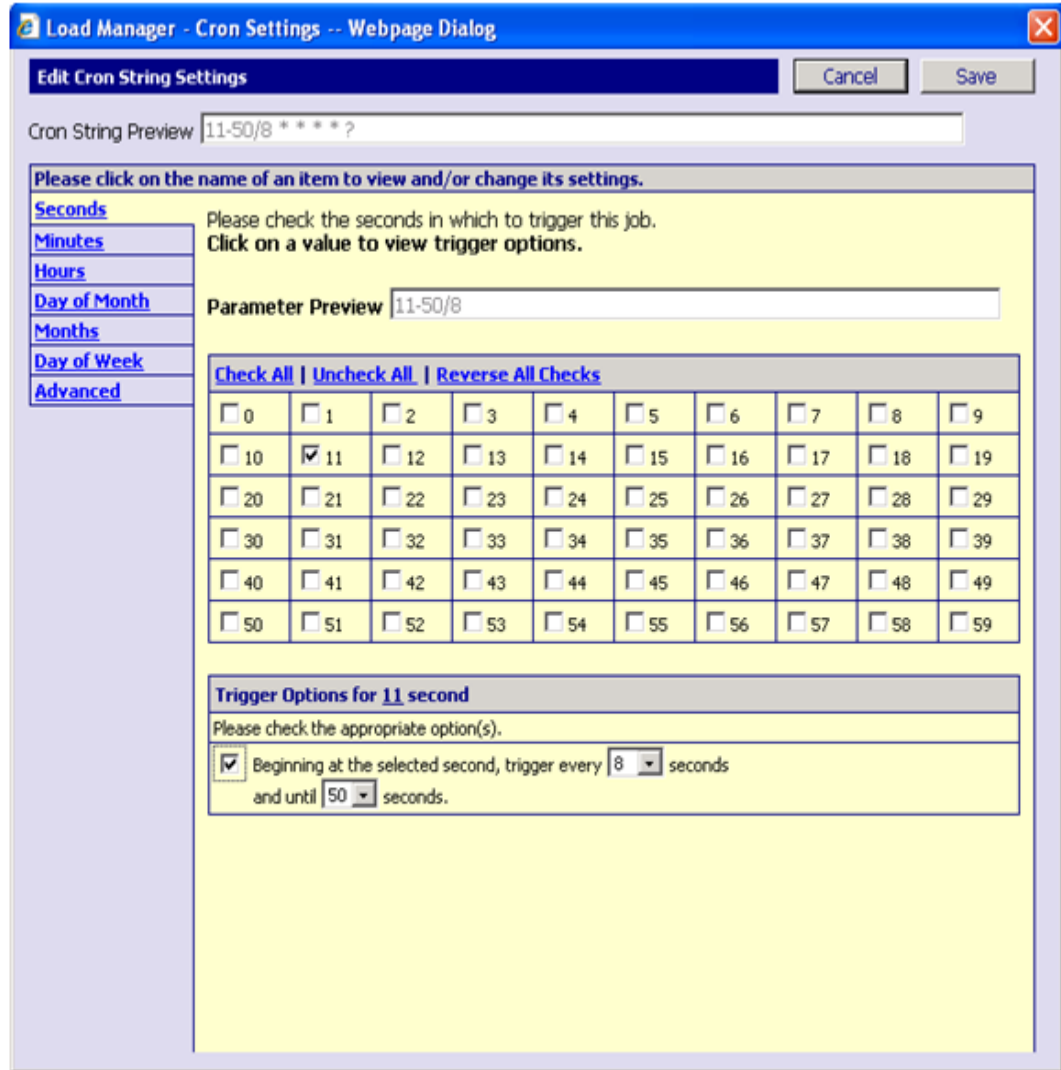


Figure 32: Cron String Preview

The Cron String Preview area is updated at the top with the values entered.

Repeat this same process with Minutes and Hours. The common settings are Seconds, Minutes, Hours and Day of Month.

Load Manager - Cron Settings -- Webpage Dialog

Edit Cron String Settings [Cancel] [Save]

Cron String Preview: 11-50/8 * 8 12 * ?

Please click on the name of an item to view and/or change its settings.

- Seconds
- Minutes
- Hours
- Day of Month**
- Months
- Day of Week
- Advanced

Please check the days in which to trigger this job.
Click on a value to view trigger options.

Parameter Preview: 12

Check All | Uncheck All | Reverse All Checks

| | | | | | | | | | |
|-----------------------------|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> 6 | <input type="checkbox"/> 7 | <input type="checkbox"/> 8 | <input type="checkbox"/> 9 | <input type="checkbox"/> 10 |
| <input type="checkbox"/> 11 | <input checked="" type="checkbox"/> 12 | <input type="checkbox"/> 13 | <input type="checkbox"/> 14 | <input type="checkbox"/> 15 | <input type="checkbox"/> 16 | <input type="checkbox"/> 17 | <input type="checkbox"/> 18 | <input type="checkbox"/> 19 | <input type="checkbox"/> 20 |
| <input type="checkbox"/> 21 | <input type="checkbox"/> 22 | <input type="checkbox"/> 23 | <input type="checkbox"/> 24 | <input type="checkbox"/> 25 | <input type="checkbox"/> 26 | <input type="checkbox"/> 27 | <input type="checkbox"/> 28 | <input type="checkbox"/> 29 | <input type="checkbox"/> 30 |
| <input type="checkbox"/> 31 | <input type="checkbox"/> Last Day of Month Options | | | | | | | | |

Trigger Options for day 12

Please check the appropriate option(s).

Beginning at the selected day, trigger every 1 days and until day 31.

Closest weekday (Monday - Friday) in the same month

Figure 33: Selecting Day of the Month Parameters

Next, select the ‘Day of Month.’ This option is used when executing jobs on a specific day of the month. Under ‘Day of Month’, an additional Trigger Option is available to choose “Closest weekday (Monday – Friday) in the same month.” When this is selected, if the day of the month checked is a weekday (for example “12”) that day will be used for execution. Otherwise, the closest weekday, either earlier or later within the same month, will be used to execute the job.

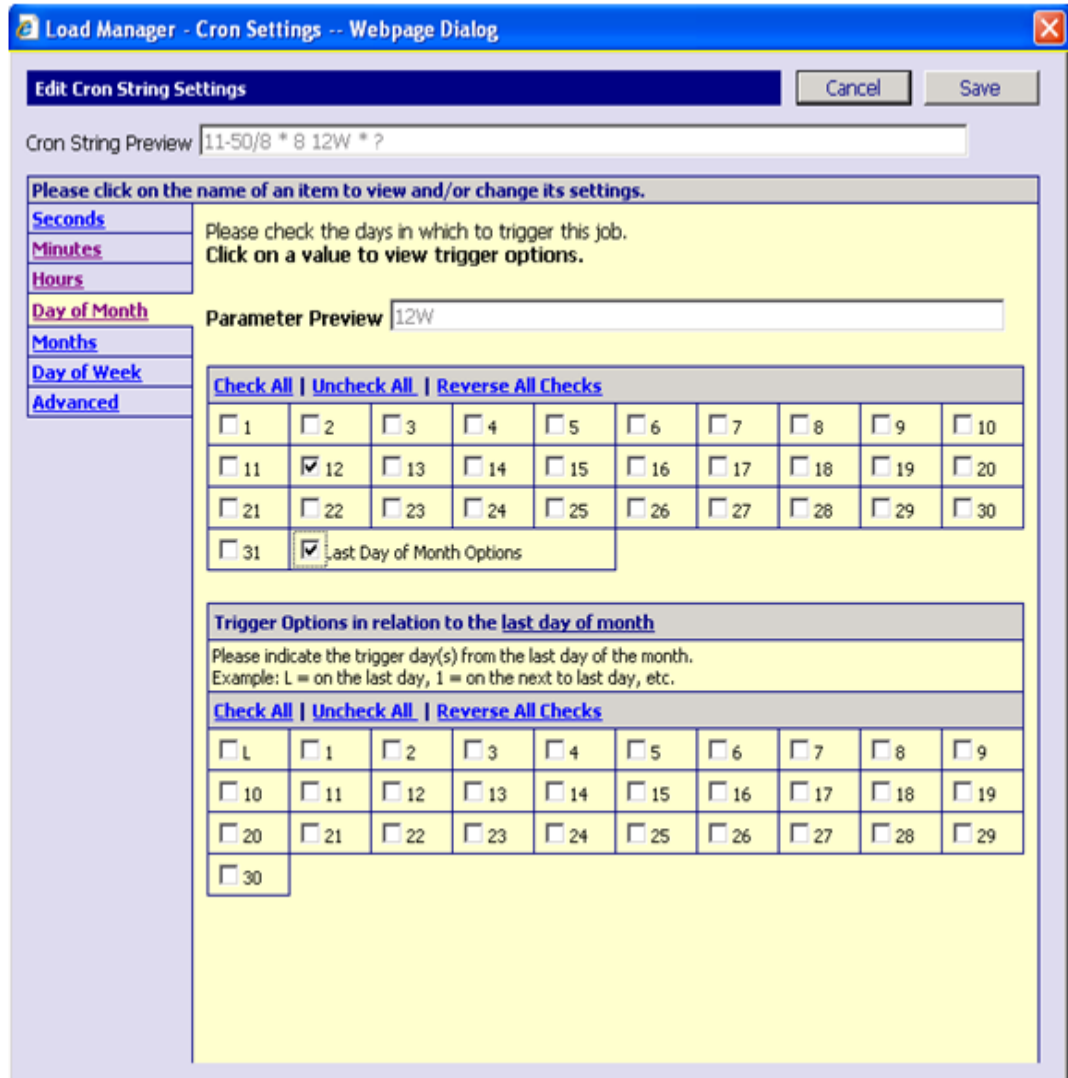
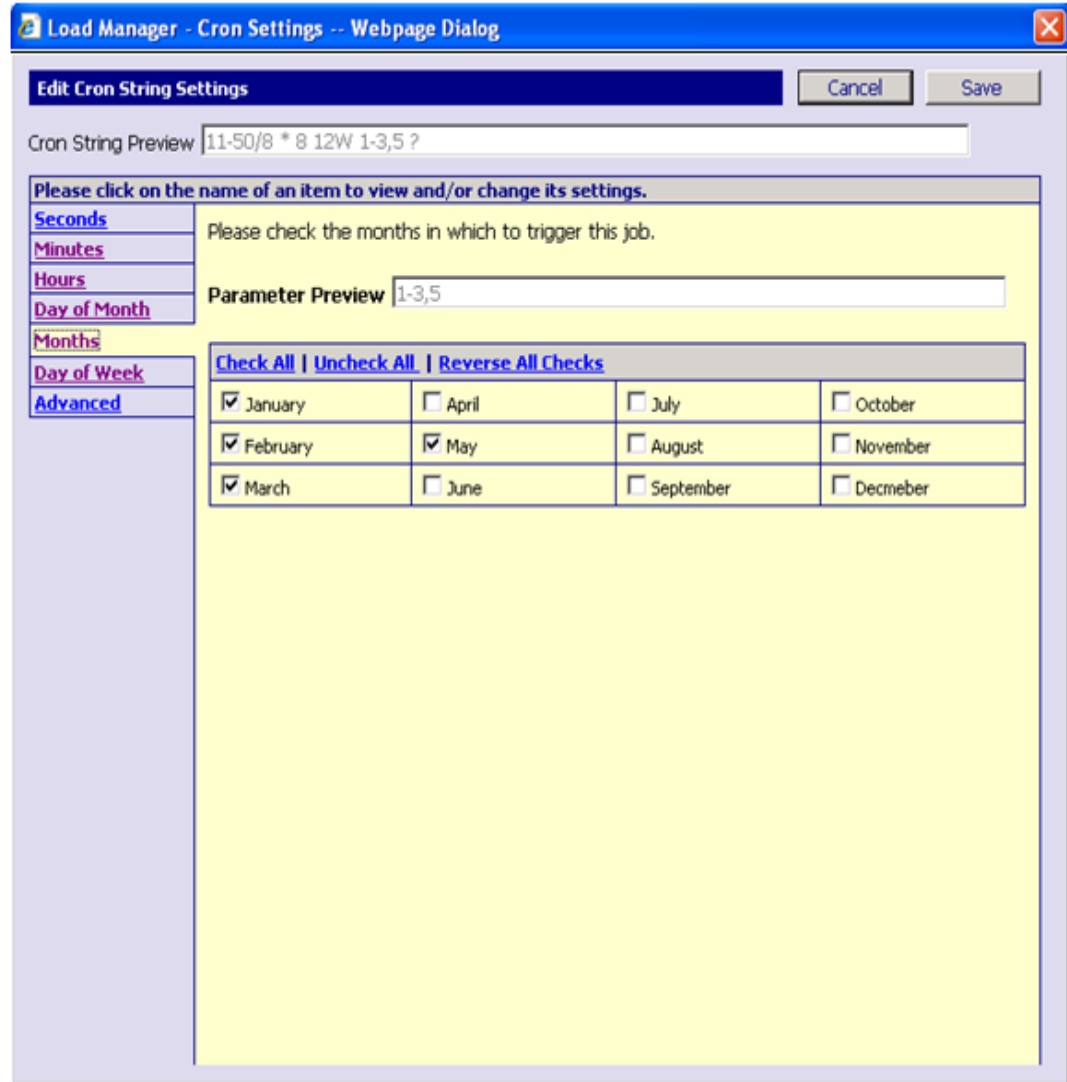


Figure 34: Last Day of the Month Option

Another option unique to “Day of Month” is the “Last Day of Month Options.” When this option is checked, you can set the Trigger Option as a specific number of days from the end of the month you wish to execute the Job. For example, if you select “2” the Job will execute 2 days prior to the last day of the month. Selecting “L” will execute the Job on the last day of the month.



Edit Cron String Settings [Cancel] [Save]

Cron String Preview: 11-50/8 * 8 12W 1-3,5 ?

Please click on the name of an item to view and/or change its settings.

- Seconds
- Minutes
- Hours
- Day of Month**
- Months
- Day of Week
- Advanced

Please check the months in which to trigger this job.

Parameter Preview: 1-3,5

[Check All](#) | [Uncheck All](#) | [Reverse All Checks](#)

| | | | |
|--|---|------------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> January | <input type="checkbox"/> April | <input type="checkbox"/> July | <input type="checkbox"/> October |
| <input checked="" type="checkbox"/> February | <input checked="" type="checkbox"/> May | <input type="checkbox"/> August | <input type="checkbox"/> November |
| <input checked="" type="checkbox"/> March | <input type="checkbox"/> June | <input type="checkbox"/> September | <input type="checkbox"/> Decreber |

Figure 35: Selecting the Month

After you have selected the “Day of Month” select the Month(s).

For Day of Week, there is a special type of control shown below:

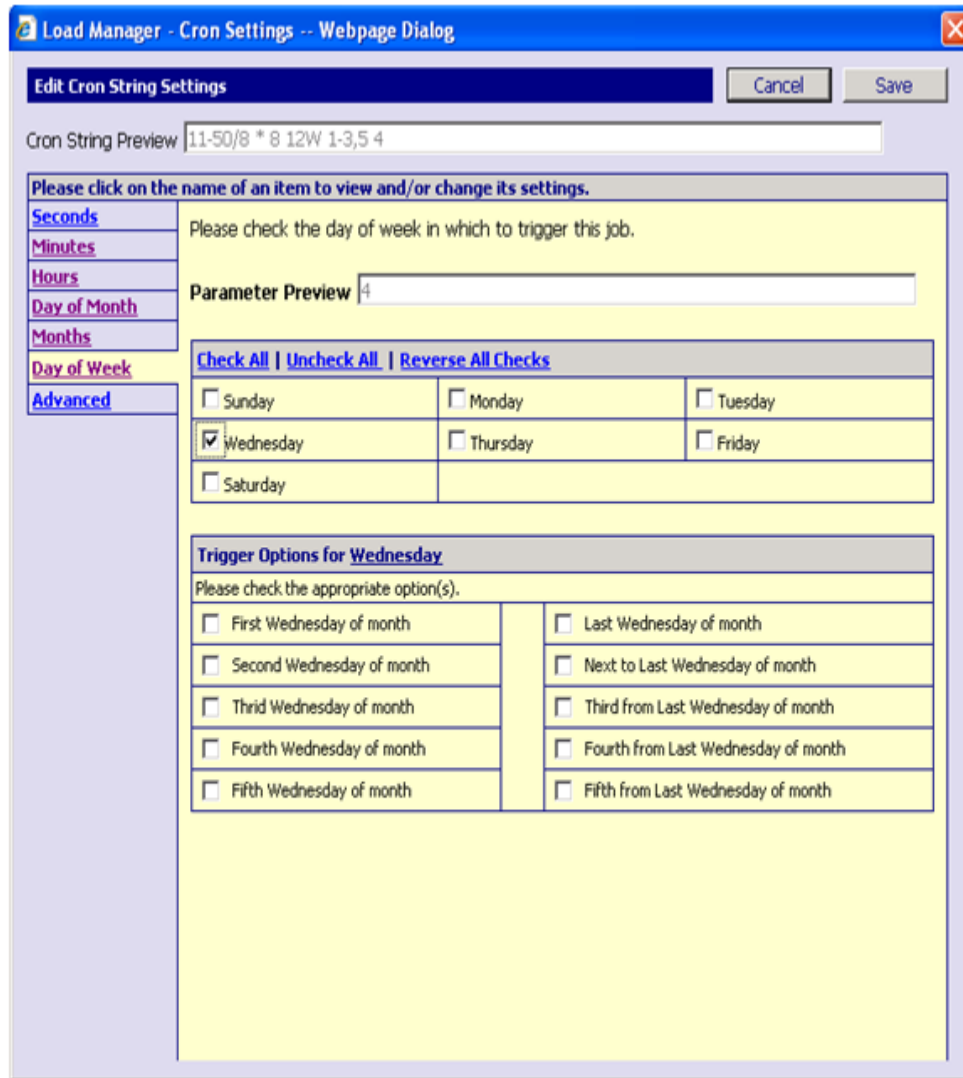


Figure 36: Selecting Day of the Week

Select Day(s) of the Week. More than one Trigger Options box can be checked to specify the week during the month for the Day of Week selected. If no Trigger Options are checked the job will repeat on every Day of the Week selected.

Job Steps

There are two ways to set up Job Steps:

- On the Job New/Edit page, click on the New button, or
- Click on the Job Steps menu on the left side to see the list of available Job Steps. Then click on New to create new step or click on an existing step to edit it.

| Id | Name | Type | Call Name | Job Summary Program Name | Description |
|----|--|-----------|------------------------------------|--------------------------|-------------|
| 80 | Back Out Last Day - All Lines | PROCEDURE | thz3.BackoutDaily | | |
| 81 | Back Out Last Month - All Lines | PROCEDURE | thz3.BackoutMonthly | | |
| 16 | Corporate Detail - Load Claim Aggregate | PROCEDURE | thz3.cagg_loadclaimaggregate | | |
| 15 | Corporate Detail - Load Claim Aggregate Daily | PROCEDURE | thz3.CAGGD_loadclaimaggregateDaily | | |
| 19 | Corporate Detail - Load Claims | PROCEDURE | thz3.CMP_LoadCMP | | |
| 23 | Corporate Detail - Load Claims Daily | PROCEDURE | thz3.CDDP_LoadCDDP | | |
| 24 | Corporate Detail - Load Claims Daily Descriptions | PROCEDURE | thz3.LoadDescriptions | | |
| 20 | Corporate Detail - Load Claims Descriptions | PROCEDURE | thz3.LoadDescriptions | | |
| 17 | Corporate Detail - Load Dimension | PROCEDURE | thz3.dm_load | | |
| 13 | Corporate Detail - Load Earned Premium | PROCEDURE | thz3.EP_loadearnedpremium | | |
| 14 | Corporate Detail - Load Exposures | PROCEDURE | thz3.exps_loadexposures | | |
| 22 | Corporate Detail Detail Portal - Load Descriptions | PROCEDURE | thz3.LoadDescriptions | | |
| 21 | Corporate Detail Detail Portal - Load Mart | PROCEDURE | thz3.CXDP_LoadCXDP_Set | | |
| 4 | Corporate Summary - Load Claim Aggregate | PROCEDURE | thz3.cagg_loadclaimaggregate | | |
| 3 | Corporate Summary - Load Claim Aggregate Daily | PROCEDURE | thz3.CAGGD_loadclaimaggregateDaily | | |
| 7 | Corporate Summary - Load Claims | PROCEDURE | thz3.CMP_LoadCMP | | |
| 11 | Corporate Summary - Load Claims Daily | PROCEDURE | thz3.CDDP_LoadCDDP | | |
| 12 | Corporate Summary - Load Claims Daily Descriptions | PROCEDURE | thz3.LoadDescriptions | | |
| 8 | Corporate Summary - Load Claims Descriptions | PROCEDURE | thz3.LoadDescriptions | | |
| 10 | Corporate Summary - Load Descriptions | PROCEDURE | thz3.LoadDescriptions | | |
| 5 | Corporate Summary - Load Dimension | PROCEDURE | thz3.dm_load | | |

Figure 37: Job Steps

Save the Job once the setup is completed for All Job Attributes, Cron String, Trigger, and Job Steps. The job will automatically be scheduled for the next run. If the job does not have an associated Cron String or Trigger, it will be executed immediately.

NEW/EDIT JOB STEP

There are two types of Job Steps for Load Manager to execute and include in a Job. The first type of Job Step is an External Program, which is also the default type when you open the New/Edit Job Step page. The second type is a Stored Procedure. Any combination of the two types of job steps can be used in a job. There are no limitations on the number of steps.

Step Type – External Programs

Select 'External Programs' as the Step Type and enter a Job Step Name. The Job Step Name is the only required field. However, to make a Job Step useful you need to provide at least two Parameter Types: one DIRECTORY and one COMMAND. The parameters will let Load Manager know both the working folder (DIRECTORY) and the command to execute (COMMAND). This can be a single application as well as a batch file.

| Type | Value | Order | |
|-------------|-------|-------|-----|
| COMMAND | | | Add |
| DIRECTORY | | | |
| COMMAND | | | |
| ENVIRONMENT | | | |

Figure 38: External Program Type Job Step

Step Type – SQL Stored Procedures

New Job Step [Cancel] [Save]

Basic Information

Step Type: SQL Stored Procedures

Job Step Name:

Step Details

Stored Procedure Name:

Job Summary Program Name:

Description:

Parameters

| Type | Value | Order | |
|--------|----------------------|-------|-----|
| OWNER | <input type="text"/> | | Add |
| OWNER | | | |
| STRING | | | |
| DATE | | | |
| NUMBER | | | |
| OTHER | | | |

Figure 39: Stored Procedure Type Job Step

Select 'SQL Stored Procedures' as the Step Type and enter a Job Step Name. You will notice that the Step Details and available Parameters Type change based on SQL Stored Procedures being selected. The Job Step Name is the only required field, but the Stored Procedure Name must be specified for the Job Step to properly run.

| Type | Value | Order | |
|--------|-----------|-------|--------|
| OWNER | someowner | ↓ | Delete |
| STRING | Hello | ↑ ↓ | Delete |
| NUMBER | 5 | ↑ | Delete |
| OTHER | | | Add |

Figure 40: Setup Input Parameters for Stored Procedure

If you have any parameters, please specify them in the order shown. Use the up and down arrow buttons under the “Order” column to adjust the order of the parameters. For String parameters, you do not need to provide single quotes. The special characters, single quote (‘), exclamation sign (!) and pound sign (#) are prohibited. If you do not know the type of parameter, specify OTHER.

NEW/EDIT JOB TRIGGER

There are two ways to set up a Job Trigger:

- In the Job New/Edit page, click on New Trigger or Edit Trigger, or
- Click on the Triggers menu on the left side to view the list of available Triggers. Then, click on New to create a new Trigger or click on an existing Trigger to edit it.

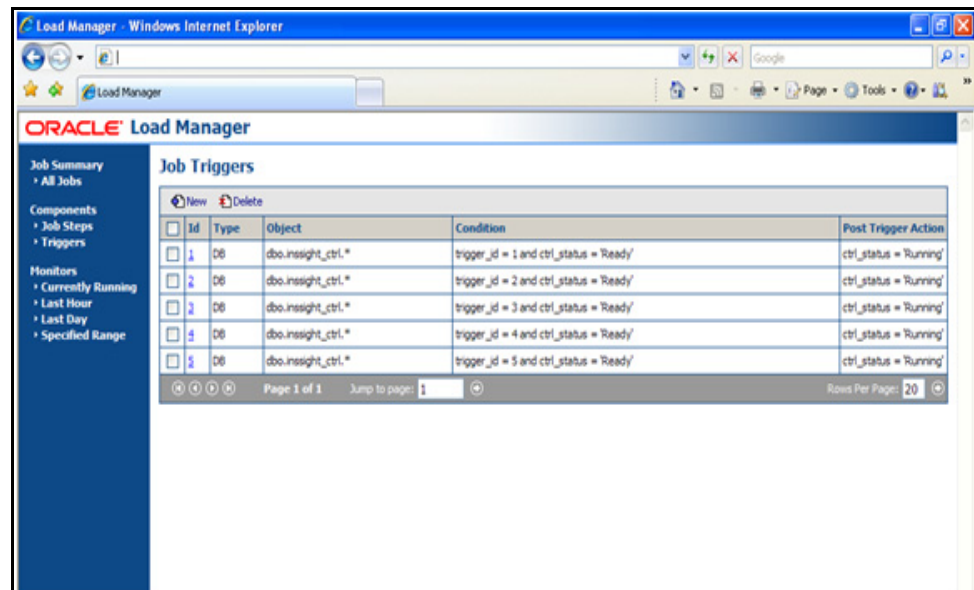


Figure 41: Setting Up a Job Trigger

On the Trigger New/Edit page, there are two types of Triggers, File Based Triggers and Database Based Triggers. An example of a File Based Trigger is shown below:

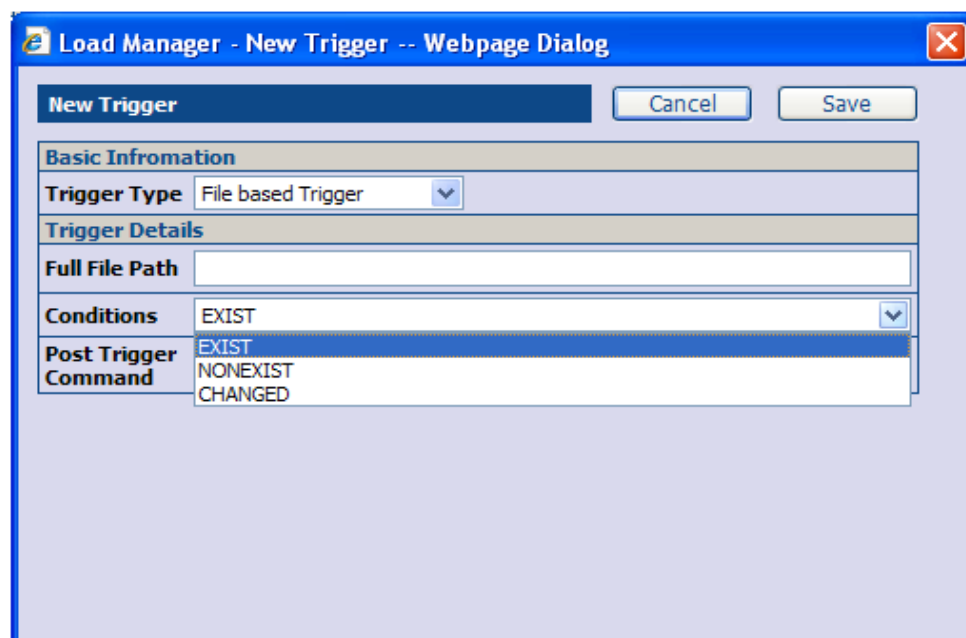


Figure 42: File Based Trigger

To set up a File based Trigger you will need to provide:

- **Full File Path:** The full file path for the file used as the signal for this file based trigger. The file path is referenced as to where Load Manager has been installed. For example, if you are using “C:\file.name”, it is located at the C drive on the machine where you installed Load Manager.
- **Conditions:** Could be EXIST, NONEXIST or CHANGED as shown above. The default value is EXIST, which means if Load ManagerSM detects the existence of this file it will fire the Trigger invoking the Job associated with the Trigger.
- **Post Trigger Command:** This is a command that is executed after the associated Job. Normally, a command is used to clear the conditions that fire the trigger. For example, for conditions EXIST, normally the command will be “del” to remove the file. This will prevent the file from triggering the job again by mistake. Load Manager will automatically add the file name to the command to complete it.

For Database Based Triggers, click on the Trigger Type drop down list box and change the type to Database based Trigger as shown below:

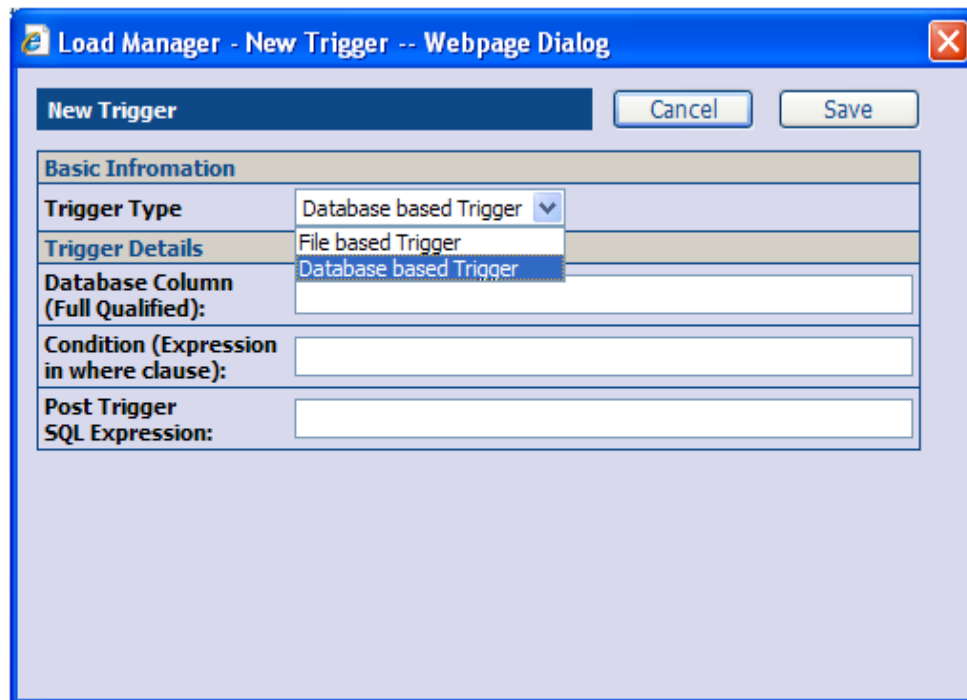


Figure 43: Database Based Trigger

To set up a Database based Trigger you will need to provide:

- **Database Column (Full Qualified):** The column name starts with schema and database table name, can use * if not specified.
- **Condition (Expression in where clause):** The Condition is the expression which will be put into the where clause in the SQL statement. For example, the condition could be “id=2 and value=’Updated’”. If any column is mentioned in the Condition it needs to be in the database table specified in Database Column (Full Qualified) field.

- **Post Trigger SQL Expression:** This is, as the name implies, a post trigger SQL expression that is executed.

ASSIGN JOB STEPS

Once the Job Steps have been defined, go back to the Job New/Edit page. If you are entering the Job Step New/Edit page from there simply saving the Job Step will return you to the correct page. Otherwise, go to the Job Summary page to assign steps to a job. Click to select the job. At the bottom of Job New/Edit page, there are two lists. The right side contains a list of all available job steps and the left side contains a list of all assigned job steps for the current job. Use the up and down arrow button to change the order of the job steps.

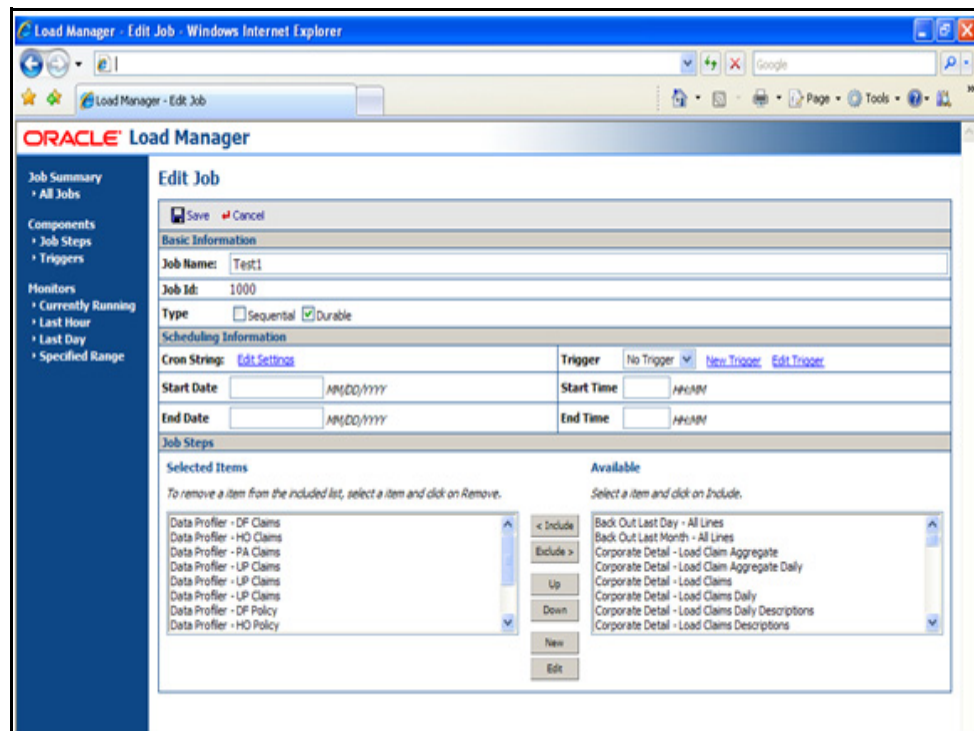


Figure 44: Assigning Job Steps

START JOB

On the Job Summary page, there is a button called Start. You can start a job immediately, if the job selected does not have an associated trigger or schedule. Otherwise, the job will be invoked when the specified trigger is fired or the job will execute at the scheduled time as defined in the setup.

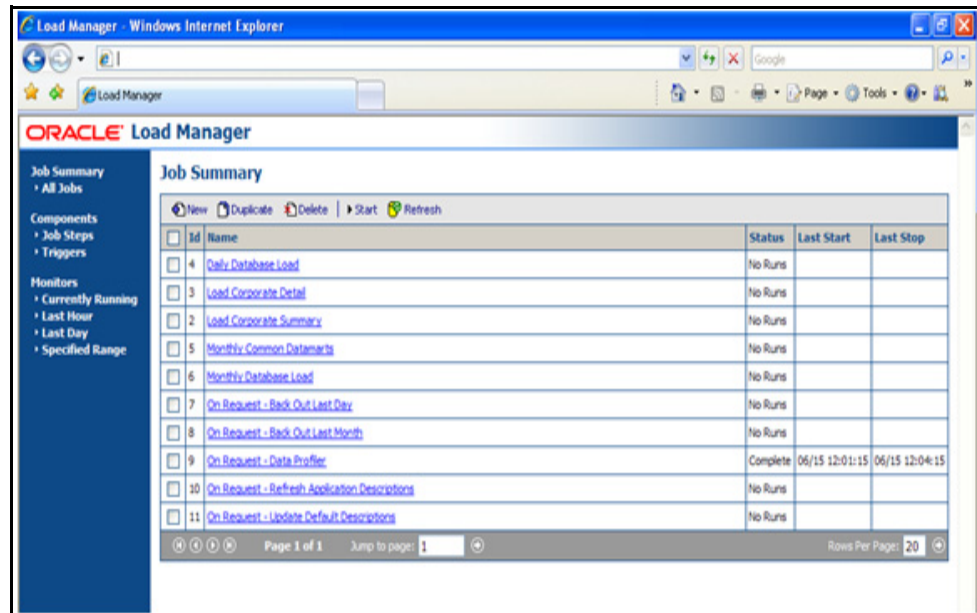


Figure 45: Starting a Job

MONITOR JOB EXECUTION

After starting a job, you can monitor the job execution process.

Running Jobs

All running jobs are listed with Job Id, Job Name, Time started and Job Status. The Job Monitor also has a multiple page control at the bottom of the page. If there is more than one page (depend on the size of the page, default to 20) of running jobs, they will be broken into multiple pages. By clicking on the proper button, you will be directed to the page you want to access. Also you can jump to the page you like by simply entering the page number.

For running jobs, you have an option to stop a particular execution by clicking the Stop button after you select the job to stop.

Also for running jobs, if you click on Run Id, you will be able to check the more detailed job step status inside the job.

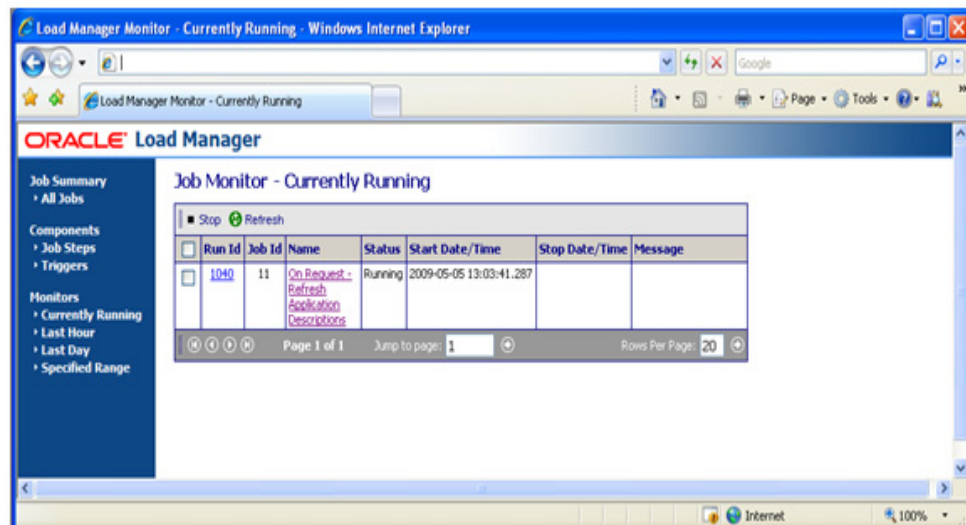
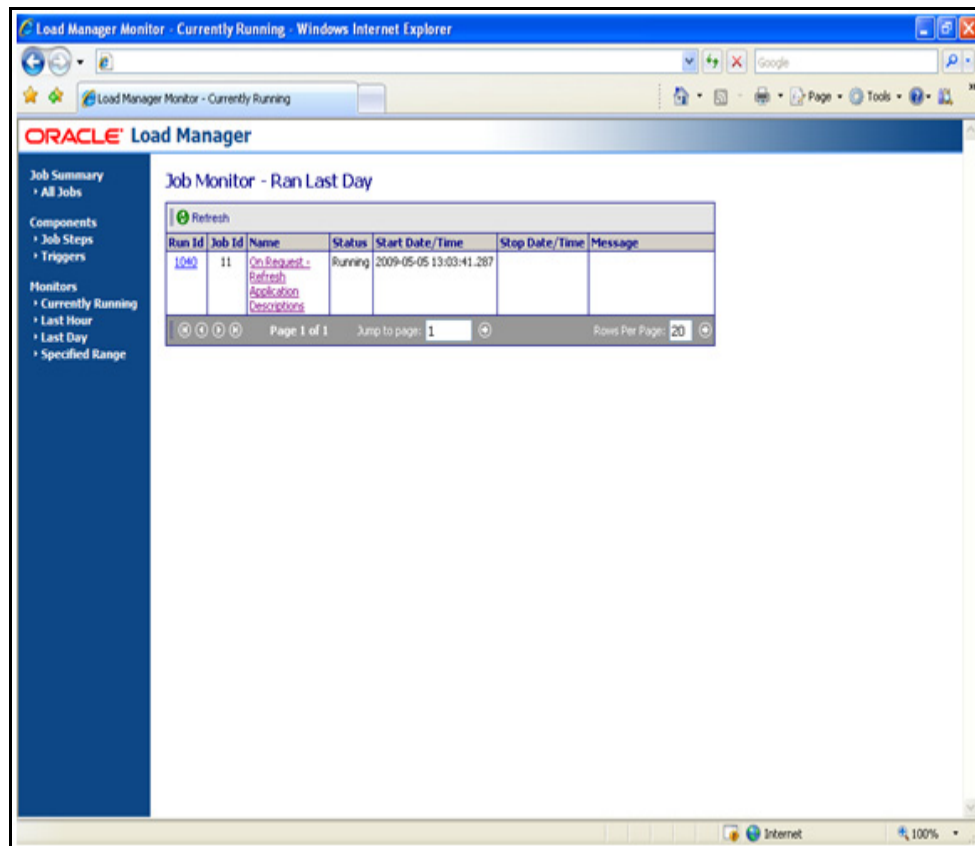


Figure 46: Running a Job

Job Ran Within Last Hour / Last Day

These are convenient shortcuts to view a Job Ran within the last hour or last day. The difference between these options and the one above is that all jobs shown here would have already been executed with either a success or failure status. The Stop button would not be available.



The screenshot displays the Oracle Load Manager Job Monitor interface. The main content area is titled "Job Monitor - Ran Last Day" and features a table with the following data:

| Run Id | Job Id | Name | Status | Start Date/Time | Stop Date/Time | Message |
|--------|--------|---|---------|-------------------------|----------------|---------|
| 1040 | 11 | On Request - Refresh Application Descriptions | Running | 2009-05-05 13:03:41.287 | | |

The interface includes a navigation sidebar on the left with sections for Job Summary, Components, and Monitors. The "Monitors" section is expanded to show "Last Day". At the bottom of the table, there is a pagination control showing "Page 1 of 1", "Jump to page: 1", and "Rows Per Page: 20".

Figure 47: Jobs Run Within Last hour or Last Day

Job Ran Any Time

Use this option if you want to check on an earlier transaction. If you have a wider range of transactions to view, you can use this option to retrieve the job status.

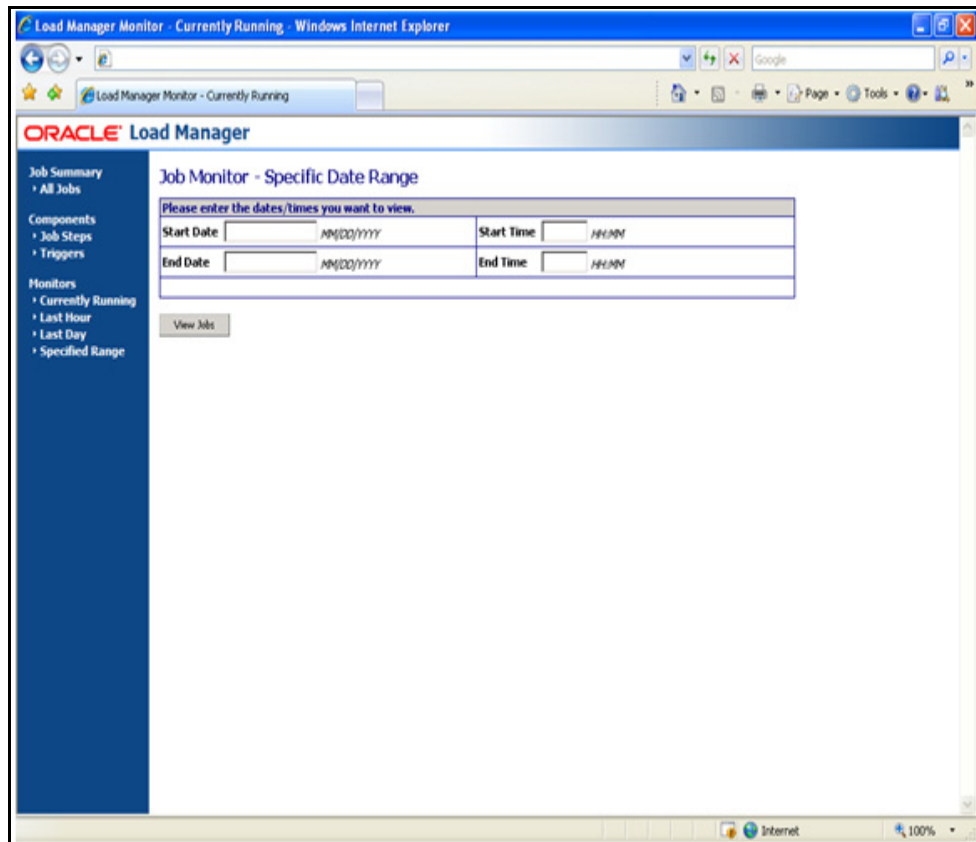


Figure 48: Jobs Run Within a Specific Date Range

Chapter 6

Integrating Data Profiler with Load Manager

Data Profiler is a Java based utility used to analyze data loaded to the Templates for quality and adherence to OII business rules. When Data Profiler is run, exceptions to data conformity rules are generated in a PDF report for evaluation.

The **{OII}\Applications\DataProfiler** directory contains a set of batch files designed to run data profiler for Policy and Claims template tables for each line of business.

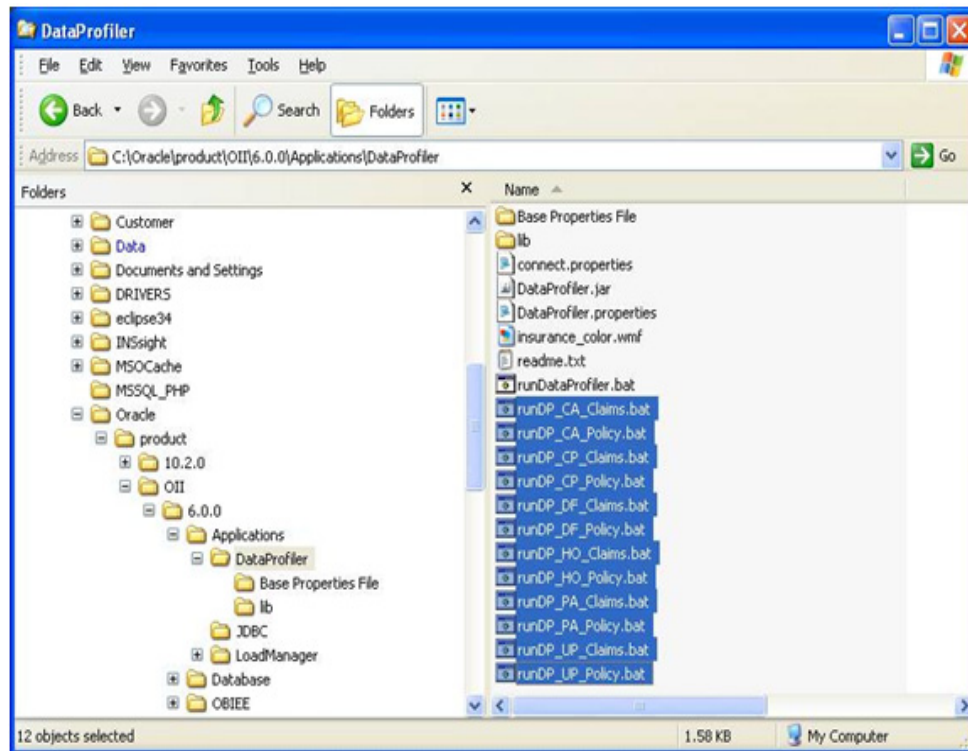


Figure 49: Data Profiler Batch Files

Load Manager contains a job step configured to run each batch file as an External Program. There is a job called "On Request – Data Profiler", that is configured to run all of the Data Profiler job steps.

When Load Manager executes a Job Step, the corresponding batch file is executed. A PDF file is generated in the DataProfiler base directory for each batch that is run.

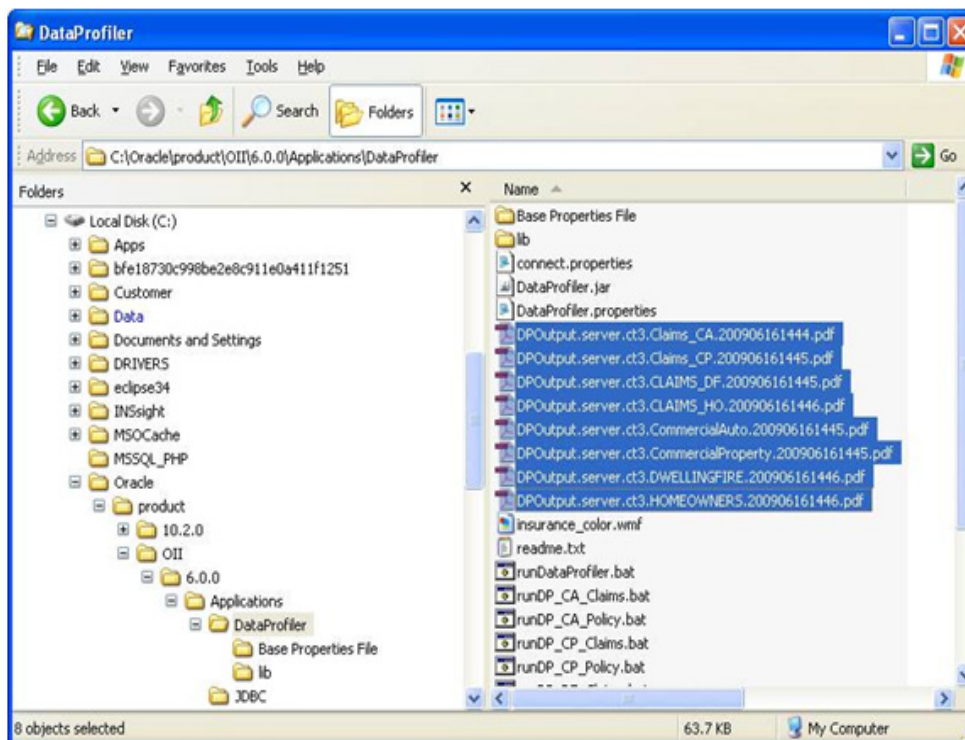


Figure 50: Data Profiler PDF Reports

Each step passes or fails in Load Manager after the External Program logic captures and analyzes the 0-5 code that Data Profiler outputs. If the output code is 0, then the running Load Manager job proceeds to the next sequential step. Any other code that is returned, 1-5, the step fails and the administrator must check the generated PDF to resolve the errors.

MANUAL EXECUTION EXAMPLE

If the automatic execution step is disabled in Load Manager, you can run Data Profiler manually.

1. Open CMD window -- (START>Run>cmd)
2. Change directory to "{OII Root}\Applications\DataProfiler\ "
3. Type and execute the database name and template name as follows at the command prompt line> runDataProfiler **server.ct3** **PersonalAuto**

where server.ct3 equals the prefix of the properties for the database you want to access.

In item 3 above, there are 2 arguments needed to run this program and a third optional argument called "Scan Mode" that can be used.

#1:Specify Database connection name/alias. Example: "server.ct3"

This is the name of the database and its ip address. This name/alias can be created/modified by editing DataProfiler.properties file.

Example of a connection property:

```
server.ct3.type=SQL Server 2005
server.ct3.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
server.ct3.user=
server.ct3.pass=
server.ct3.url=jdbc:sqlserver://
<db_host_name>;instanceName=<db_instance_name>;databaseName=<db_name>
server.ct3.functions=false
server.ct3.autocommit=true
```

#2: Specify **Tablename alias**. Example: "**PersonalAuto**"

This is the name of the template file to be profiled for errors. This name can be created/modified by editing DataProfiler.properties file.

Example of a tablename property:

```
validation1.name=PersonalAuto
validation1.sourcetable=CT3.PERSONALAUTO
validation1.sourcetablekey=RowNumber
validation1.ruleset=1
```

Note Sourcetable is the actual template table name highlighted above in yellow.

#3. Specify if Data Profiler should be run in Scan Mode by typing `-S` after arguments #1 and #2.

Scan mode finds all distinct errors and displays recurring errors (errors that occur on more than 1 row within the data template) only once. An error message will be displayed for each distinct error. The Scan Mode option is useful when profiling large data templates and avoids displaying an error message for every row encountered.

4. A report in PDF format will be generated at the end of the program in the same directory as Data Profiler. This report lists the row number and the column name of all the records that do not meet the data rules. The code setting the data rules is proprietary and should not be modified. If Scan Mode has been used, the error report displays the distinct errors without row numbers.

DATA CONFORMITY RULES

This table contains examples of some of the rules Data Profiler uses to validate template data. There is a validation rule for every column in each data template. When data does not conform to the established rules as set forth in the applicable Claims or line of business Properties file, Data Profiler will write the appropriate message to an error report arranged by corresponding row number.

Table 3: Data Conformity Rules

| Type | Column Name | Column Name | Business Rule |
|---------------|------------------------|------------------------|---|
| Single Column | BookDate | --- | Cannot be NULL; mm/dd/yyyy |
| Single Column | CycleDate | --- | Cannot be NULL; mm/dd/yyyy |
| Single Column | [Policy]EffectiveDate | --- | Cannot be NULL; mm/dd/yyyy |
| Single Column | [Policy]ExpirationDate | --- | Cannot be NULL; mm/dd/yyyy |
| Single Column | NewRenewalCd | --- | Code must equal "N" or "R" (default) |
| Single Column | ActiveCancelledCd | --- | Code must equal "A" (default) or "C" |
| Single Column | DirectCededAssumedCd | --- | Code must equal "A," "C," or "D" (default) |
| Single Column | DeleteCd | --- | Code can be BLANK (default), "N", or "D." |
| Single Column | PolicyNumber | --- | Cannot be NULL; Must < or = to varchar(25) |
| Single Column | RatedDriverCd | --- | Code must equal "Y" or "N" (default) |
| Single Column | StateCd | --- | Can be BLANK or Column can contain codes from the StateCode Standard Codes table. varchar(2). |
| Single Column | ThazarCoverageCd | --- | Column must contain codes from the ThazarCoverageCd Standard Codes table. |
| Single Column | ThazarTransactionCd | --- | Column must contain codes from the ThazarTransactionCd Standard Codes table. |
| Cross Column | BookDate | CycleDate | BookDate must be = or > CycleDate |
| Cross Column | CoverageEffectiveDate | CoverageExpirationDate | CoverageEffectiveDate must be < or = to CoverageExpirationDate |
| Cross Column | CoverageExpirationDate | [Policy]ExpirationDate | CoverageExpirationDate must be < or = to [Policy]ExpirationDate |

Table 3: Data Conformity Rules (Continued)

| Type | Column Name | Column Name | Business Rule |
|--------------|------------------------|------------------------|--|
| Cross Column | CoverageEffectiveDate | [Policy]EffectiveDate | CoverageEffectiveDate must be > or = to [Policy]EffectiveDate |
| Cross Column | CoverageEffectiveDate | [Policy]ExpirationDate | CoverageEffectiveDate must be < or = to [Policy]ExpirationDate |
| Cross Column | CoverageExpirationDate | PolicyTermKey | All Coverage Expiration Dates must be the same for same PolicyTermKey in same cycle. |

DATA PROFILER OUTPUT

The sample reports generated by the Data Profiler show:

- The date/time and template table name at the top of the page.
- Error messages arranged by corresponding row number.
- Column name(s) that indicate where the error occurred.
- Error messages that include the invalid code contained in the column or indicate what condition was not met by the value in the column.
 - Such as “LE” means “Less Than or Equal To,”
 - Where “GE” means “Greater Than or Equal To”
 - Where “MLE” means MO/YR of the first date (Cycle Date) must be “Less Than or Equal To” the MO/YR of the second date (Batch Date)
- The total number of errors at the end of the report.

The report below shows a result report with no errors.

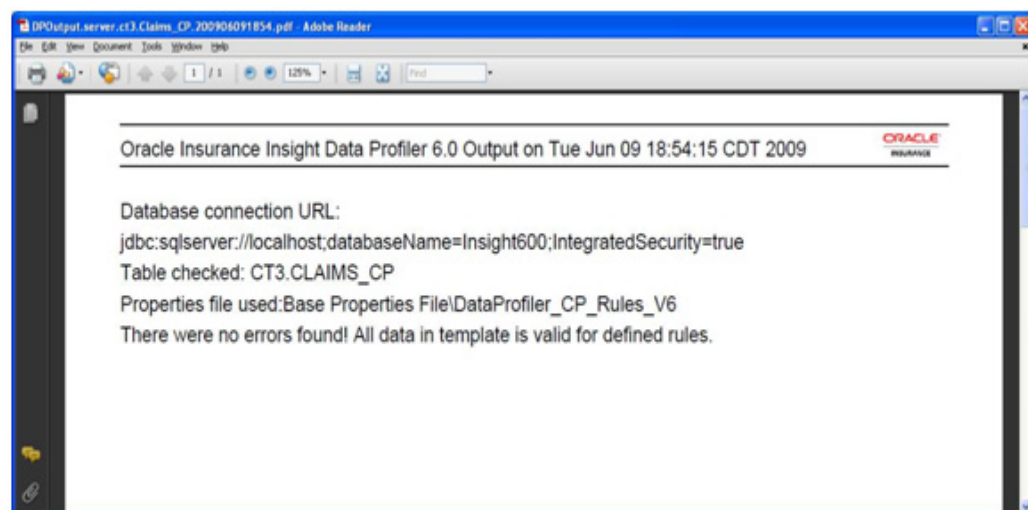


Figure 51: Data Profiler Sample Report

GENERAL BUSINESS RULES

Listed below are the basic rules contained within the Data Profiler Properties file. This utility reads the various templates and flags rows of data that violate these rules. Single column rules and cross column rules can be added depending on each client's needs. After new rules are added to the properties file, be sure to add the new rule number to one or both of the validation rule sets at the beginning of the properties file.

Single Column Rules:

1. **ActiveCancelledCd** must = "A" (default) or "C"
2. **Book Date** cannot be null and must be date format
3. **Cycle Date** cannot be null and must be date format
4. **DeleteCd** must be "N" (default) or "D"
5. **DirectCededAssumedCd** must = "A", "C", OR "D" (default to Direct)
6. **LossSuitCd** must be blank (default), "A", "B", "C", "O", "P", "Q", "R", "S", "T", "U", "W"
7. **NewRenewalCd** must = "N" or "R"(default)
8. **Policy Number** cannot be null and must < or = varchar (25)
9. **[Policy] Effective Date** cannot be null and must be date format
10. **[Policy] Expiration Date** cannot be null and must be date format
11. **RatedDriverCd** must be "N" (default) or "Y" (auto lines only)
12. **StateCd** if not blank must be varchar(2). See State Code List attached. Use alpha abbreviations unless otherwise specified by the client.

If the client has chosen to map Thazar codes from source to templates, then these rules also would apply to the data.

13. **ThazarClaimTransactionCd** must = "AC", "AE", "AR", "DC", "DE", "DR", "ED", "FA", "FC", "FR", "LC", "LR", "NF", "PL", "RC", "RS", "SB", "SC", "SL", "SR", "UC", "UE", "UR", "YC", "YD", "YR", "ZC", "ZD", "ZR".
14. **ThazarCoverageCd** must = See list of ThazarCoverageCds later in this document.
15. **ThazarCoveragePartCd** must = "BM", "BP", "CA", "CG", "CP", "CR", "GA", "GL", "HO", "IM", "KK", "PA", "PL", "UC", "UP", "WC"
16. **ThazarLOBCd** must = "BM", "BP", "CA", "CF", "CG", "CP", "CR", "DF", "GA", "GL", "HP", "IM", "KK", "MP", "PA" (default), "PK", "PL", "PR", "UC", "UP", "WC"
17. **ThazarLOBSubCd** must = See list of ThazarLOBSubCd later in this document.
18. **ThazarPolicyTypeCategoryCd** must = "AR", "P", "S"
19. **ThazarPolicyTypeCd** must = "I", "V"
20. **ThazarStatusReasonCd** must = "AR", "CF", "CO", "IA", "IC", "IR", "NP", "NR", "OR", "RW"

21. **ThazarTransactionCd** must = “AA”, “AP”, “CF”, “CN”, “CO”, “NB”, “NP”, “RA”, “RB”, “RE”, “RP”

Cross Column Rules:

1. **Book Date** must be = or > **Cycle Date**
2. **Coverage Effective Date** must be = or < **Coverage Expiration Date**
3. **CoverageExpirationDates** for same PolicyTermKey in same cycle must be same (equal), i.e., all Coverage Expiration Dates must be same for same policytermkey in same cycle.
4. **CoverageExpirationDate** must be < or = to **Policy Expiration Date**
5. **CoverageEffectiveDate** must be > or = **Policy Effective Date**

STATECODES:

Table 4: StateCd

| State Abbreviation | State Code | State Name |
|--------------------|------------|----------------------|
| "Blank" | | Unknown |
| AL | 1 | Alabama |
| AZ | 2 | Arizona |
| AR | 3 | Arkansas |
| CA | 4 | California |
| CO | 5 | Colorado |
| CT | 6 | Connecticut |
| DE | 7 | Delaware |
| DC | 8 | District of Columbia |
| FL | 9 | Florida |
| GA | 10 | Georgia |
| ID | 11 | Idaho |
| IL | 12 | Illinois |
| IN | 13 | Indiana |
| IA | 14 | Iowa |
| KS | 15 | Kansas |

Table 4: StateCd (Continued)

| State Abbreviation | State Code | State Name |
|--------------------|------------|----------------|
| KY | 16 | Kentucky |
| LA | 17 | Louisiana |
| ME | 18 | Maine |
| MD | 19 | Maryland |
| MA | 20 | Massachusetts |
| MI | 21 | Michigan |
| MN | 22 | Minnesota |
| MS | 23 | Mississippi |
| MO | 24 | Missouri |
| MT | 25 | Montana |
| NE | 26 | Nebraska |
| NV | 27 | Nevada |
| NH | 28 | New Hampshire |
| NJ | 29 | New Jersey |
| NM | 30 | New Mexico |
| NY | 31 | New York |
| NC | 32 | North Carolina |
| ND | 33 | North Dakota |
| OH | 34 | Ohio |
| OK | 35 | Oklahoma |
| OR | 36 | Oregon |
| PA | 37 | Pennsylvania |
| RI | 38 | Rhode Island |
| SC | 39 | South Carolina |
| SD | 40 | South Dakota |
| TN | 41 | Tennessee |

Table 4: StateCd (Continued)

| State Abbreviation | State Code | State Name |
|--------------------|------------|---------------|
| TX | 42 | Texas |
| UT | 43 | Utah |
| VT | 44 | Vermont |
| VA | 45 | Virginia |
| WA | 46 | Washington |
| WV | 47 | West Virginia |
| WI | 48 | Wisconsin |
| WY | 49 | Wyoming |
| HI | 52 | Hawaii |
| AK | 54 | Alaska |

THAZARCOVERAGECDS:

Table 5: ThazarCoverCd

| Code | Description |
|-------|---------------------------------------|
| ADB | Accidental Death Benefit |
| ACCTS | Accounts Receivable |
| ADDIN | Additional Insured |
| ADDLL | Additional Liability (BOP Only) |
| ALEXP | Additional Living Expense |
| APIP1 | Additional Personal Injury Protection |
| ADLLI | Advertising Legal Liability |
| AOP | All Other Perils |
| ACOLL | Auto Collision |
| ACOMP | Auto Comprehensive |
| AHIBI | Auto Hired Liability Bodily Injury |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|--|
| AHIPD | Auto Hired Liability Property Damage |
| LEASE | Auto Lease |
| ALIBI | Auto Liability Bodily Injury |
| ALIPD | Auto Liability Property Damage |
| LOAN | Auto Loan |
| AUMED | Auto Medical Payments |
| AUNBI | Auto Non-Owned Bodily Injury |
| AUNPD | Auto Non-Owned Property Damage |
| AUPIP | Auto Personal Injury Protection |
| ARENT | Auto Rental Reimbursement |
| ATOWG | Auto Towing |
| AUUBI | Auto Underinsured Motorist Bodily Injury |
| AUUPD | Auto Underinsured Motorist Property Damage |
| AUTBI | Auto Uninsured Motorist Bodily Injury |
| AUTPD | Auto Uninsured Motorist Property Damage |
| AL | Automobile Liability CSL |
| BALS | B&M Actual Loss Sustained |
| BAMO | B&M Ammonia Contamination |
| BSBB | B&M -Basic- Small Business Policy |
| BSBR | B&M -Broad- Small Business Policy |
| BCAL | B&M Combined Actual Loss Sustained/Extra Expense |
| BCVE | B&M Combined Value Business/Extra Expense |
| BMCD | B&M Consequential Damage |
| BEXP | B&M Expediting Expense |
| BMEE | B&M Extra Expense |
| BFEX | B&M Furnace Explosion |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|--|
| BMGE | B&M Gross Earnings |
| BMHS | B&M Hazardous Substance |
| BIUR | B&M In Use or Connected Ready For Use |
| BCCE | B&M Limited Coverage Extension |
| BMRN | B&M Marine Equipment Extension |
| BMOP | B&M Ordinary Payroll Expense |
| BMPD | B&M Property Damage |
| BMSP | B&M Service Piping |
| BSBS | B&M -Spoilage- Small Business Policy |
| BMUI | B&M Utility Interruption |
| BVAL | B&M Valued Business |
| BMWD | B&M Water Damage |
| BAILE | Bailees |
| BAIFL | Bailees Customers Floater |
| BASIC | Basic |
| BASI | Basic Group I - Detail |
| BASII | Basic Group II - Detail |
| BLKAI | Blanket Additional Insured |
| BLKVN | Blanket Vendor |
| BI | Bodily Injury Liability CSL |
| BIPUN | Bodily Injury Punitive Damages |
| BISIL | Bodily Injury-Single Limit |
| BISPL | Bodily Injury-Split Limit |
| BFPRD | Broad Form Products |
| THEFA | Broad Form Theft - Loss Away From Premises |
| BCOL | Broadened Collision |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|---|
| BRDCV | Broadened Coverage |
| BPIP | Broadened PIP |
| BLDRK | Builders Risk |
| BLDG | Building |
| BAEC | Building - Additional Extended Coverage |
| BEQK | Building - Earthquake |
| BEC | Building - Extended Coverage |
| BFL | Building - Fire & Lightning |
| BAAD | Building Alterations and Additions Deletion |
| BCEG | Building Code Effectiveness Grade |
| BDGNP | Building Items Coverage (Named Perils) |
| BDGIT | Building Items Coverage (Special Coverage) |
| BOLAW | Building Ordinance or Law Coverage |
| BURMN | Burglary & Robbery (Money) |
| BIAOL | Business Income Any Other Location |
| BUSPR | Business Property |
| CAMFL | Camera Floater |
| CCCLL | Care, Custody Or Control Legal Liability |
| CHNUR | Church with Day Nursery (BOP Only) |
| COLAP | Collapse Coverage Endorsement |
| COLPD | Collapse Property Damage |
| COLL | Collision |
| CDW | Collision Deductible Waiver |
| CACOV | Combined Additional Coverages |
| BOLCC | Combined Building Ordinance or Law and Increased Cost of Construction |
| BOLDC | Combined Demolition Cost and Increased Cost of Construction |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|--|
| CCAFL | Commercial Fine Arts Floater |
| CUMBR | Commercial Umbrella |
| COMBI | Completed Operations Bodily Injury |
| COMPD | Completed Operations Property Damage |
| COMP | Comprehensive |
| XCBUL | Comprehensive Business Liability Exclusion (BOP Only) |
| CONEO | Consultants Errors & Omissions |
| PPEQK | Contents - Earthquake |
| BPP | Contents (Personal Property) |
| CNBUS | Contingent Business Income |
| CEQFL | Contractor's Equipment Floater |
| CL | Contractual Liability |
| COC | Course of Construction |
| CCF | Credit Card Forgery |
| CDTCD | Credit Card Forgery & Counterfeit Money Increased Limits |
| DMGPO | Damage to Property of Others |
| DO | Directors & Officers Liability |
| DOCON | Directors and Officers of Residence\Office Condos (BOP Only) |
| DRPLB | Doctors excl. Professional Liability |
| DRACL | Drive Away Collision |
| DOC | Driver of Other Car |
| DWELL | Dwelling (Cov. A) |
| EAOCC | Each Occurrence |
| EQ | Earthquake |
| ERKSP | Earthquake - Sprinkler |
| ERQKF | Earthquake and Flood (Mobile Homes) |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|---|
| EQSL | Earthquake Sprinkler Leakage |
| ELP | Economic Loss Protection |
| EDPEQ | EDP Equipment |
| EEFL | Electronic Equipment Floater |
| EBLIA | Employee Benefits Liability |
| EMPDH | Employee Dishonesty |
| ERISA | Employee Retirement Income Security Act |
| EL | Employer's Liability |
| XEMP | Employment Related Practices Exclusion (BOP Only) |
| ENGEO | Engineers Errors & Omissions |
| EQDFL | Equipment Dealer Floater |
| EQPFL | Equipment Floater |
| ERROM | Errors and Omissions |
| EXBFL | Exhibition Floater |
| EXFSH | Exhibition, Fair, Show |
| EXP | Explosion |
| EXPBI | Explosion Bodily Injury |
| EXPPD | Explosion Property Damage |
| EE | Extra Expense |
| EXMED | Extraordinary Medical Payment |
| FPRCO | False Pretense Coverage |
| FCPL | Farmers CPL |
| FILFL | Film Floater |
| FIART | Fine Arts Floater |
| FAINT | Fine Arts in Transit |
| FIRE | Fire |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|--|
| PFRTH | Fire & Theft |
| FIRDM | Fire Damage |
| FLL | Fire Legal Liability |
| FTHWD | Fire, Theft, Windstorm |
| FPB | First Party Benefits |
| FLOOD | Flood |
| FPDFL | Floor Plan Dealer Floater |
| FOOD | Food Spoilage |
| FORRE | Foreign Reparations Expense & Increased Limits |
| FORGN | Foreign Workers Compensation Coverage |
| FORMA | Form A |
| FORMB | Form B |
| FORMC | Form C |
| FORMD | Form D |
| FORME | Form E |
| FORMF | Form F |
| FORMG | Form G |
| FORMH | Form H |
| FORMI | Form I |
| FORMJ | Form J |
| FORMM | Form M |
| FORMN | Form N |
| FEB | Funeral Expense Benefits |
| FURFP | Fur Floater (personal lines) |
| FURFL | Furriers Floater |
| GARBC | Garage Broadened Coverage |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|-------------------------------------|
| GCOLL | Garage Collision |
| GCOMP | Garage Comprehensive |
| GFIRE | Garage Fire |
| GFRTH | Garage Fire & Theft |
| GLIAB | Garage Liability |
| GLSP | Garage Limited Specified Perils |
| GMEDP | Garage Medical Payments |
| PERIN | Garage Personal Injury |
| GPERL | Garage Specified Perils |
| TEMLL | Garage Temporary Location Limit |
| GTHFT | Garage Theft |
| TRANL | Garage Transit Limit |
| DIREB | Garagekeepers Direct Excess Basis |
| DIRPB | Garagekeepers Direct Primary Basis |
| GKLLI | Garagekeepers Legal (BOP Only) |
| LGLLI | Garagekeepers Legal Liability |
| GASP | Gas Pump Liability |
| GL | General Liability |
| GCM | General Liability Claims Made |
| GLASS | Glass |
| GLABR | Glass Breakage |
| GOLFL | Golf Floater |
| GOLF | Golfcart Physical Damage |
| GRPRP | Grain Properties |
| GUNFL | Gun Floater |
| HNA | Hired/Non-Owned Automobile Combined |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|---|
| HHCPL | Home Health Care Professional Liability |
| HABCD | Homeowners Form 7 |
| HOPRL | Hospitals Professional Liability |
| HULMT | Hull and Motor |
| HULL | Hull Coverage - Physical Damage |
| HURR | Hurricane |
| HSCRB | Hurricane Buy Back Coverage for Screened Enclosures |
| GLASH | Hurricane Resistant Glass |
| FRAUD | Identity Fraud Expense Coverage |
| IAADD | Improvements Alterations and Additions |
| ITRST | In Transit |
| IHBUS | In-Home Business Coverage |
| INTFL | Installation Floater |
| INSFL | Installment Sales Floater |
| JWRFL | Jewelers Floater |
| JEWFC | Jewelers Floater (commercial inland marine) |
| JWYFL | Jewelry Floater |
| JEWFP | Jewelry Floater (personal inland marine) |
| LNDMV | Land Movement |
| LEADC | Lead Contamination |
| LEAD | Lead Liability |
| LEADX | Lead Liability Exclusion |
| GAP | Lease/Loan Gap |
| LRCCC | Leasing or Rental Concerns - Contingent Coverage |
| LIAB | Liability |
| GOAO | Liability - Garage Operations Auto Only |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|--|
| GOOTA | Liability - Garage Operations Other than Auto Only |
| LLL | Liquor Law Legal Liability |
| LIQUR | Liquor Liability |
| LAP | Loss Assessment Property |
| LAPEQ | Loss Assessment Property (Inc. Earthquake/Volcanic Eruption) |
| LRRC | Loss of Rental Income - Replacement Cost |
| LUSE | Loss of Use |
| BOIMB | Machinery Breakdown |
| MEDEX | Medical Expense |
| MEDPM | Medical Payments |
| MEXCO | Mexico Coverage |
| MINS | Mine Subsidence |
| MINP | Minimum Premium |
| MIMFL | Miscellaneous Inland Marine Floater |
| MILLI | Miscellaneous Legal Liability |
| MSEC | Money & Securities |
| MSOFF | Money & Securities Off Premises |
| MSECP | Money & Securities on Premises |
| MTCFL | Motor Truck Cargo Floater |
| MIDFL | Musical Instrument Dealers Floater |
| MUSFL | Musical Instrument Floater |
| NBUSL | Non Business Liability (BOP Only) |
| BOLEQ | Ordinance or Law Coverage Earthquake |
| VACCL | Ordinary Vacancy Clause |
| OTC | Other Than Collision |
| WCRFT | Owned Watercraft Liability |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|--|
| OCP | Owners Contractors Protective |
| PDNM | Pattern, Dies and Molds |
| PS | Peak Season (Old Plan) |
| PIADV | Personal and Advertising Injury |
| PAFLO | Personal Articles Floater |
| PIHOM | Personal Injury |
| PIP | Personal Injury Protection |
| PL | Personal Liability |
| PP | Personal Property |
| PPAEC | Personal Property - Additional Extended Coverage |
| PPEC | Personal Property - Extended Coverage |
| PPFL | Personal Property - Fire and Lightning |
| PPAOL | Personal Property Any Other Location |
| PPEFT | Personal Property Exhibition, Fair, Tradeshow |
| PPRFL | Personal Property Floater |
| PCL | Personal Umbrella |
| PFIRE | Physical Damage Fire |
| PHYFL | Physician Surgeon Equipment Floater |
| PULBB | Pollution Buy Back |
| POLUT | Pollution Liability |
| PLIAB | Premises Liability |
| LIABA | Premises Liability Additional Locations |
| PREM | Premises/Operations |
| PEROM | Printers Errors & Omissions |
| PROFL | Processing Floater |
| PRDBI | Products Bodily Injury |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|--|
| PRDPD | Products Property Damage |
| PRDCO | Products/Completed Operations |
| PRFBI | Professional Bodily Injury |
| PROF | Professional Liability |
| PRFPD | Professional Property Damage |
| PD | Property Damage |
| PDBY | Property Damage Buy Back |
| PPI | Property Protection Insurance |
| PRML | Property Removal |
| FORMP | Public Employee Dishonesty - Per Employee |
| FORMO | Public Employee Dishonesty - Per Loss |
| PRPAI | Public Relations Personal & Advertising Injury |
| PUBEO | Publisher Errors & Omissions |
| PUNI | Punitive Damage |
| RTVFL | Radio-Television Policy Floater |
| RRPRL | Railroad Protective Liability |
| REAE0 | Real Estate Agents Errors & Omissions |
| RLESO | Real Estate Operations |
| RENL | Renewal Plan |
| BOIRT | Rental Income |
| RREIM | Rental Reimbursement |
| RENTV | Rented Vehicles |
| RR | Repair/Replacement |
| RCC | Replacement Cost Contents |
| RESPR | Residence Premises 3 or 4 Family Dwell. |
| RJUA | Residence Property and Casualty Joint Underwriting Association |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|--|
| RCCMT | Riot and Civil Commotion |
| FORMQ | Robbery/Safe Burglary - Money and Securities |
| SLSMP | Salespersons Samples |
| SCHPP | Scheduled Personal Property |
| 2NDIN | Second Injury Fund |
| SDB | Sewer or Drain Backup |
| SIGN | Sign |
| CPIP | Single Limit PIP |
| SINK | Sinkhole Collapse |
| SNOWM | Snowmobile |
| SNOWL | Snowmobile Liability |
| SORCV | Sound Receiving |
| SOUND | Sound Receiving & Transmitting Equip. |
| SPCDT | Special (Including theft) - Detail |
| SPE | Special Equipment |
| SPPP | Special Personal Property |
| SPPRV | Special Provisions |
| SCL | Specified Causes of Loss |
| PERIL | Specified Perils |
| PERTI | Specified Perils with Trailer Interchange |
| SPOIL | Spoilage |
| SL | Sprinkler Leakage (Old Plan) |
| STAFL | Stamp Floater |
| STOPG | Stopgap |
| STK | Storekeeper Liability |
| SWMPL | Swimming Pool |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|---|
| TR | Tapes and Records |
| THEFT | Theft |
| XPOLU | Total Pollution Exclusion (BOP Only) |
| TL | Towing and Labor |
| TRANS | Transit |
| TRNFL | Transit Floater |
| TRNFC | Transit Floater (commercial inland marine) |
| TRNFP | Transit Floater (personal inland marine) |
| TRNEX | Transportation Expense |
| TRLIA | Truckers Liability |
| USLH | U.S. Longshore & Harbor Workers' Compensation Act |
| UMBRL | Umbrella |
| UNDBI | Underground Bodily Injury |
| UDRPD | Underground Property Damage |
| UNDUM | Underinsured Motorist Liability |
| UNDPD | Underinsured Motorist Property Damage |
| UEFS | Uninsured Employers Fund |
| UM | Uninsured Motorist |
| UNK | Unknown |
| VAC | Vacancy |
| PAPER | Valuable Papers |
| VMM | Vandalism |
| VOL | Voluntary Comp |
| SEWER | Water Backup of Sewers & Drains |
| WDE | Water Damage Extension |
| WATER | Watercraft |

Table 5: ThazarCoverCd (Continued)

| Code | Description |
|-------|---------------------------------------|
| WINDX | Wind Exclusion |
| WIND | Wind/Hail |
| WNDST | Windstorm |
| WJUA | Windstorm Underwriting Association |
| WCEL | Workers Comp and Employer's Liability |

THAZARLOBSubCd:

Table 6: ThazarLOBSubCode

| Code | Description |
|-------|--|
| ARP | Assigned Risk Plan |
| AUTL | Business Automobile Liability (for Loss History) |
| AUTP | Business Automobile Physical Damage (for Loss History) |
| CGL | Comprehensive General Liability |
| CNTB | Contract Bonds |
| CNTR | Contractual |
| CRFD | Court and Fiduciary Bonds |
| CRT | Court Bonds |
| DISC | Discovery |
| FRPS | FAIR Plan (Subcharged) |
| FRPU | FAIR Plan (Unsurcharged) |
| FIDU | Fiduciary Bonds |
| FSB | Florida Sub-Standard |
| GARAG | Garage and Dealers |
| GCM | General Liability Claims Made |
| INRV | Internal Revenue Bonds |

Table 6: ThazarLOBSubCode (Continued)

| Code | Description |
|-------|--------------------------------|
| LCPT | License and Permit Bonds |
| LP | License Bonds |
| LSUD | Loss Sustained |
| MANC | Manufacturers and Contractors |
| MASS | Massachusetts Automobile |
| MSCB | Miscellaneous Bonds |
| NOND | Named Non-Owned |
| NPC | New Plan - Claims Made |
| NPO | New Plan - Occurrence |
| NSTD | Non-Standard Automobile |
| OCCUR | Occurrence |
| OLT | Owners, Landlords and Tenants |
| OCP | Owners/Contractors Protective |
| PROD | Products/Completed Operations |
| PROF | Professional Liability |
| PO | Public Official Bonds |
| FAC | Reinsurance Facility |
| SPEC | Special Automobile |
| STOR | Storekeepers |
| SUB | Sub-Standard Automobile |
| TXAR | Texas Assigned Risk Automobile |
| TXFR | Texas Fire |
| TXHO | Texas Homeowner |
| TXVL | Texas Voluntary Automobile |
| US | United States Bonds |
| VOL | Voluntary |

Table 6: ThazarLOBSubCode (Continued)

| Code | Description |
|------|-----------------|
| WARE | Warehouse Bonds |

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