

DATA IN SYNCH

User Guide

ver 1.0

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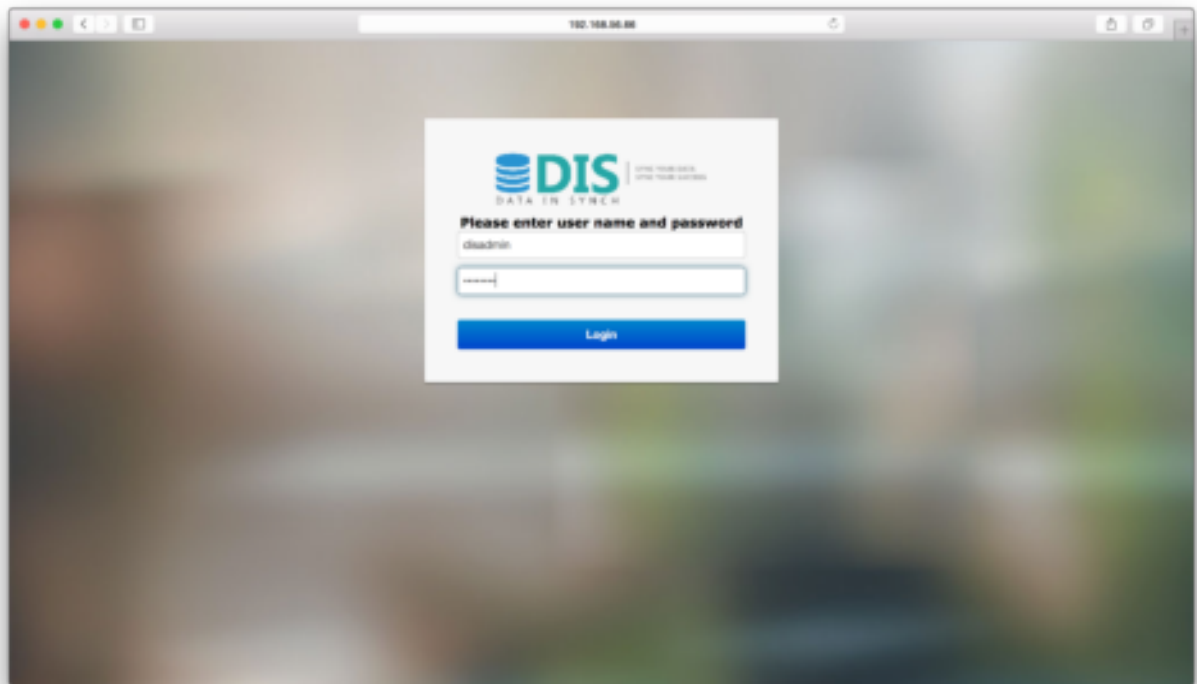
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INTRODUCTION

DataInSynch is high speed, reliable and web-based solution to compare and repair data. It provides fast, east and reliable tool to detect data vacations across heterogeneous databases. It verifies data similarities and fixes dissimilarities online without interrupting ongoing operations. It is utilised to compare and maintain massive amount of data outside database engine to avoid any performance impacts. It is vital to assure data integrity in data integration and data replication solutions.

DataInSynch V1.0 is released in two editions (STANDARD and ENTERPRISE) to be adequate to satisfy all customer needs in small, medium and enterprise business. Main features are available for both editions. In both of them, user can define databases, comparing pairs and jobs. Also, user can run jobs, monitor all running jobs and configure users and settings.

DataInSynch ENTERPRISE edition has two unique features FastTrack and Schedule. FastTrack utilises user time to define thousands of comparing pairs, jobs and schedule in a single click. Schedule is an amazing feature enables user to schedule jobs to run automatically in a specific time regularly.



Open application using url <http://<hostname>:<port>/dismanager> and enter

User Name: disadmin

Password: disadmin

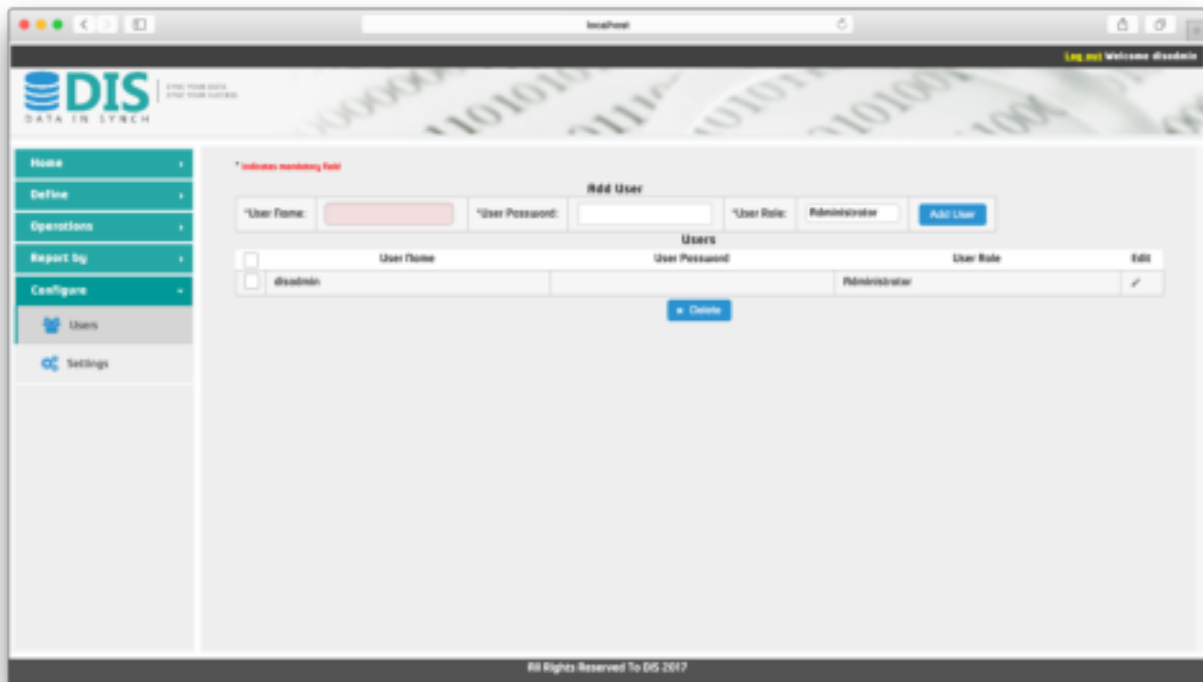
Home page contains menu and pi chart to represent results of today running jobs.



This document shows required steps that user has to follow to define details of agent, database, comparing tables, jobs and scheduled execution times; configure features and user accessibility roles; run and monitor jobs.

CONFIGURATION

Users



This page allows user to create multiple users. Different permission can be assigned to each user that is matched with his role.

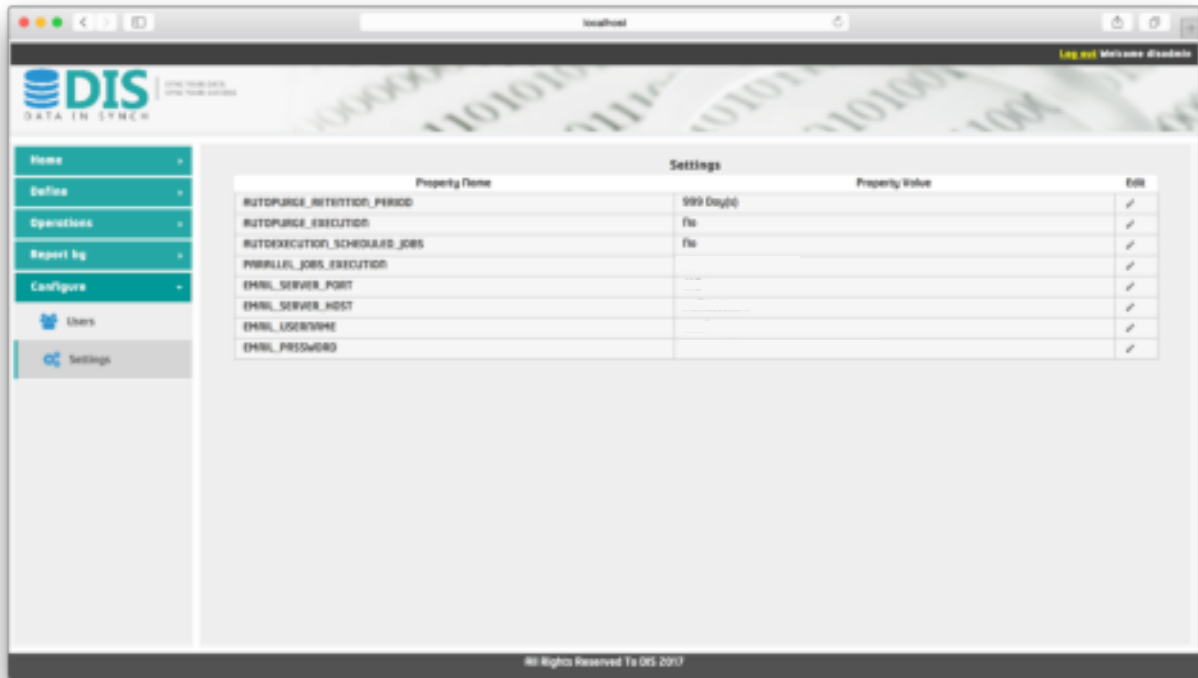
1. Open **Users** link from **Configure** menu
2. To add user, enter:
 - I. User Name: user name that is used to login DIS
 - II. Password: password that is used to login DIS
 - III. User role: role of the user that is one of the following:
 - A. Administrator: The user is enabled to define and run jobs; configure system; and generate reports
 - B. Superuser: The user is enabled to define and run jobs; and generate reports.
 - C. User: The user is enabled to define and run jobs; and generate reports

D. Operator: The user is enabled to run and monitor jobs; and generate reports

IV. then press Add User

3. To delete user, select corresponding checkbox then press Delete. Confirmation message will appear. Press Yes to delete or No to cancel.
4. To edit user, press pencil mark corresponding to it then enter new information. After that, press “correct” mark to save or “wrong” to cancel

Settings



This page enables user to set DIS configurations such as: performance tuning, scheduled jobs auto execution, threshold of storing results and email server parameters:

1. Open **Settings** link from **Configure** menu
2. To edit property value, press pencil mark corresponding to it then enter new information. After that, press “correct” mark to save or “wrong” to cancel
3. Set of configurable properties are appeared. These options are described as following table:

Property Name	Property Description
AUTOPURGE_RETENTION_PERIOD	Specify retention period in days. All results stored before these days will be removed automatically if AUTOPURGE_EXECUTION is enabled.
AUTOPURGE_EXECUTION	Yes to enable purging stored results to save memory space. No to disable auto purge.
AUTOEXECUTION_SCHEDULED_JOBS	Yes to enable executing scheduled jobs. No to disable auto execution. Note: Enterprise Edition
PARALLEL_JOBS_EXECUTION	Yes to enable executing multiple jobs parallel. No to disable parallel execution.
EMAIL_PASSWORD	Password of email account which used to send results of scheduled jobs execution Note: Enterprise Edition
EMAIL_SERVER_HOST	Email account server which used to send results of scheduled jobs execution Note: Enterprise Edition
EMAIL_SERVER_PORT	Email account server port which used to send results of scheduled jobs execution Note: Enterprise Edition
EMAIL_USERNAME	Password of email account which used to send results of scheduled jobs execution Note: Enterprise Edition

DEFINE

Database



This page enables user to register and edit connection information of databases which store comparable tables to be reachable during definition, verification and maintenance process.

1. Open **Database** link from **Define** submenu
2. To add database, press **Add Database** and enter the following:
 - I. Database Name: The name of your database in DIS
 - II. Database Type: Type of database Oracle, DB2, MySQL or MS SQL Server.
 - III. Database Host: Host name or IP of server where you installed your database
 - IV. Database Port: Port number to used to connect to database
 - V. Database Service: Instance name of database to be used to connect to it
 - VI. Database Username: User name that is used to connect database. He must have access permission on data dictionary tables

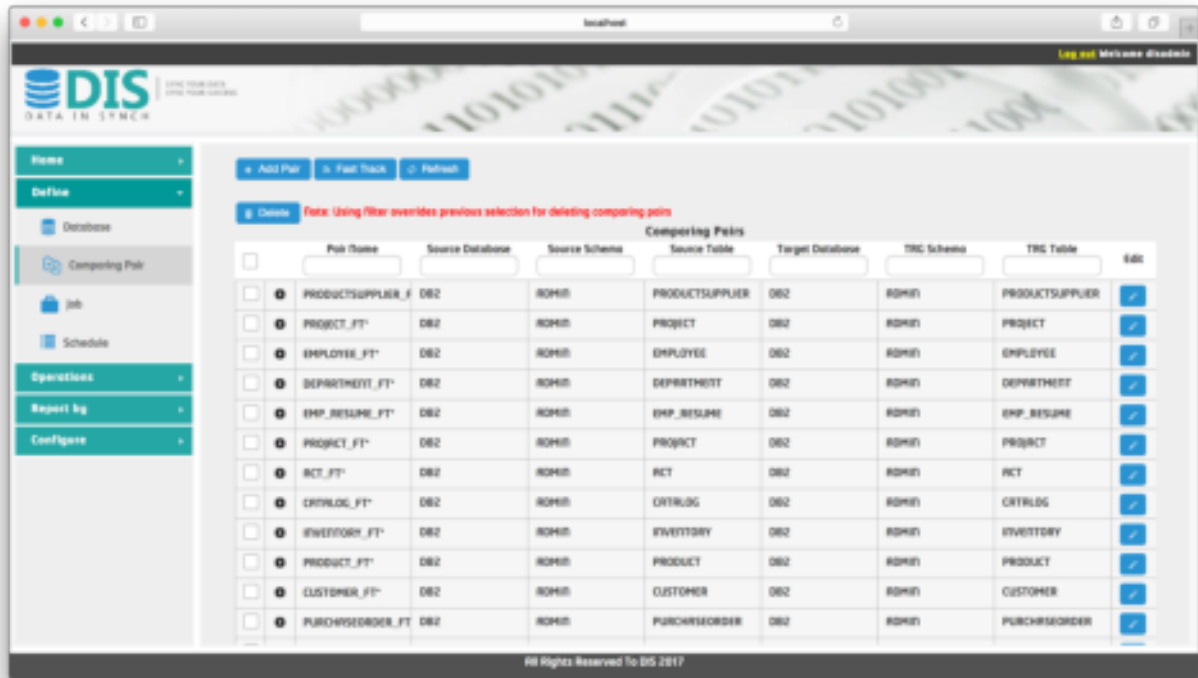
VII.Database Password: Password that is used by database username

VIII.then press Add Database.

3. Test connectivity option is important to test connectivity between DIS Manager server and registered database. Test connectivity can be used by pressing one of two buttons:
 1. Button next to Save button in add database dialog to check connectivity before saving new database. To use it, just enter database parameters then press it.
 2. Button before Delete button is used to check connectivity for registered databases. To use it, just check databases and then press it to test selected databases connectivities.
4. To delete database, select corresponding checkbox then press Delete. Confirmation message will appear. Press Yes to delete or No to cancel. Database should not be deleted if it is used by any comparing pair.
5. To edit job, press **Pencil** mark corresponding to popup dialog and enter new information. After that, press **Save** to save new information.

Note: Job should not be deleted if it is used by any schedule.

Comparing Pairs

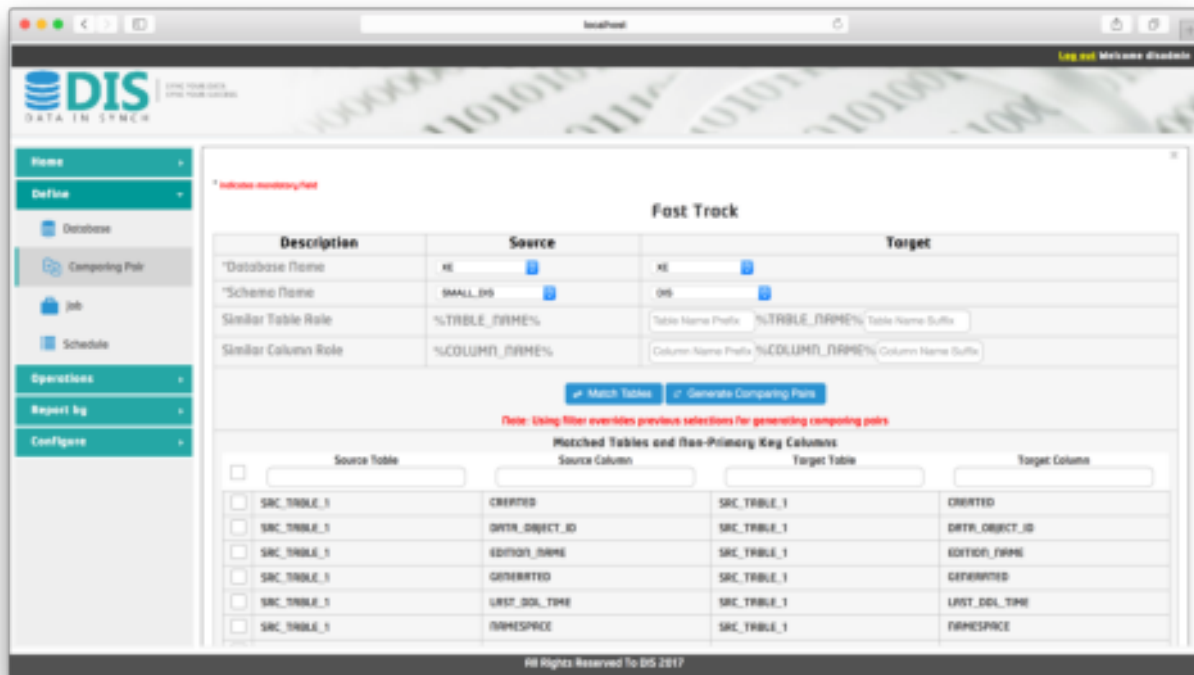


Comparing pairs page enables user to define comparing pairs which describe in details tables and columns to be compared. There are two options here to use, **Add Pair** in which user enter all required information manually table by table and **Fast Track** which is available only in Enterprise edition. It enables user to create comparing pairs for several tables by a single click. The following steps explains the steps of first option:

- I. Open **Comparing Pair** link from **Define** menu
2. To add comparing pair, press **Add Pair** button then enter the following information for source and target to specify comparing tables, columns and datasets:
 - I. Name: The name of your comparing pair. It is mandatory field.
 - II. Database Name: Database for source and target which stores comparable tables. Source and target can use different or same database. It is mandatory field.
 - III. Schema Name: Schema name of source and target comparable tables. It is chosen from list of schemas. This list is generated based on the selected database. Source and target can use different or same schemas. It is mandatory field.

- IV. Table Name: Table name of source and target to be compared. List of available tables are populated as per schema name selection. It is mandatory field.
- V. Partition Name: Partition name of selected source and target tables. List of partitions are populated as per schema name selection. It is optional field.
- VI. Index Name: Unique index name of source and target tables. If there is no unique index on the table, generated list will be empty and comparing pair will not be saved. It is mandatory field.
- VII. Unique Columns: It displays columns of unique index.
- VIII. Values Columns: It displays columns of table other than columns of unique index. It is selective checkboxes to determine which columns involved in verification process.
- IX. Selected Columns: It displays selected columns in same order of selection. To be populated, select required columns in the required orders from values columns then press select. This field is optional.
- X. Where Condition: It specifies dataset to be compared by entering where condition for source and target. It is optional field.
- XI. then press Add button



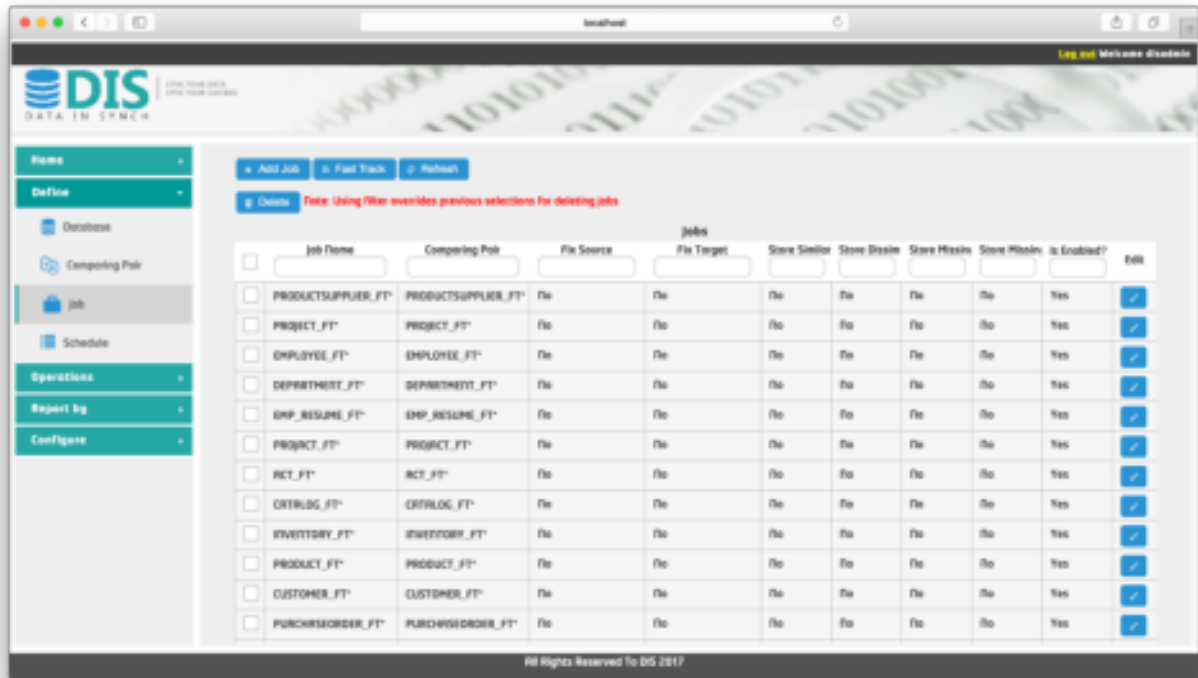


3. Using ENTERPRISE edition, Fast Track button is available to enable user to create comparing pairs for several tables by a single click. Follow the following steps to use it:
 1. Press **Fast Track** button
 2. Choose source and target databases
 3. Choose source and target schemas
 4. (Optional) Enter table name prefix and table name suffix to match tables names in source and target according to it
 5. (Optional) Enter column name prefix and column name suffix to match tables names in source and target according to it
 6. Click **Match Tables** to generate list of matched columns
 7. Select columns to be involved in comparing pairs.
 8. Click **Generate Comparing Pairs** to generate comparing pairs for selected columns
4. To update comparing pair, display it on the screen by pressing **pencil** icon. Dialog will popup to enable you modify comparing pair configuration. After, modifying press **update** button.
5. To delete comparing pair, display it on the screen by pressing arrows then press **Delete**. Confirmation message will appear. Press Yes to delete or No to cancel.

Notes:

- Comparing pair cannot be saved in the following conditions:
 1. Any mandatory field is not filled
 2. The number of primary or selected columns in source or target are different
 3. Syntax error in where condition
- On the column level, warning message is shown to highlight that there is datatype or data length difference between source and target
- Comparing pair cannot be deleted if it is used by any jobs

Job



User uses this page to put comparing pair in executable frame named job. There are two options here to create the job, **Add Job** in which the user creates jobs for comparing pairs one by one. The second option is **Fast Track** which is available only in Enterprise edition. It enables user to create several jobs through a single click. The following steps explains the first option:

1. Open **Job** link from **Define** menu
2. To add job, press **Add Job** button and enter the following:
 - I. Job Name: The name of your job in DIS
 - II. Comparing Pair: Comparing pair which used to perform verification
 - III. Fix Source: Determine the action that will be followed to fix data concerns in source table:
 - I. **No** to disable fixing data issues
 - II. **Insert Into Source** to enter missing records into source table
 - III. **Delete From Target** to delete from target table missing records in source

IV. Fix Target: Determine the action that will be followed to fix data concerns in target table:

I. **No** to disable fixing data issues

II. **Insert** to enter missing records only

III. **Insert and Update** to enter missing records and update mismatched fields

V. Store Similar: It enables storing details of similar records.

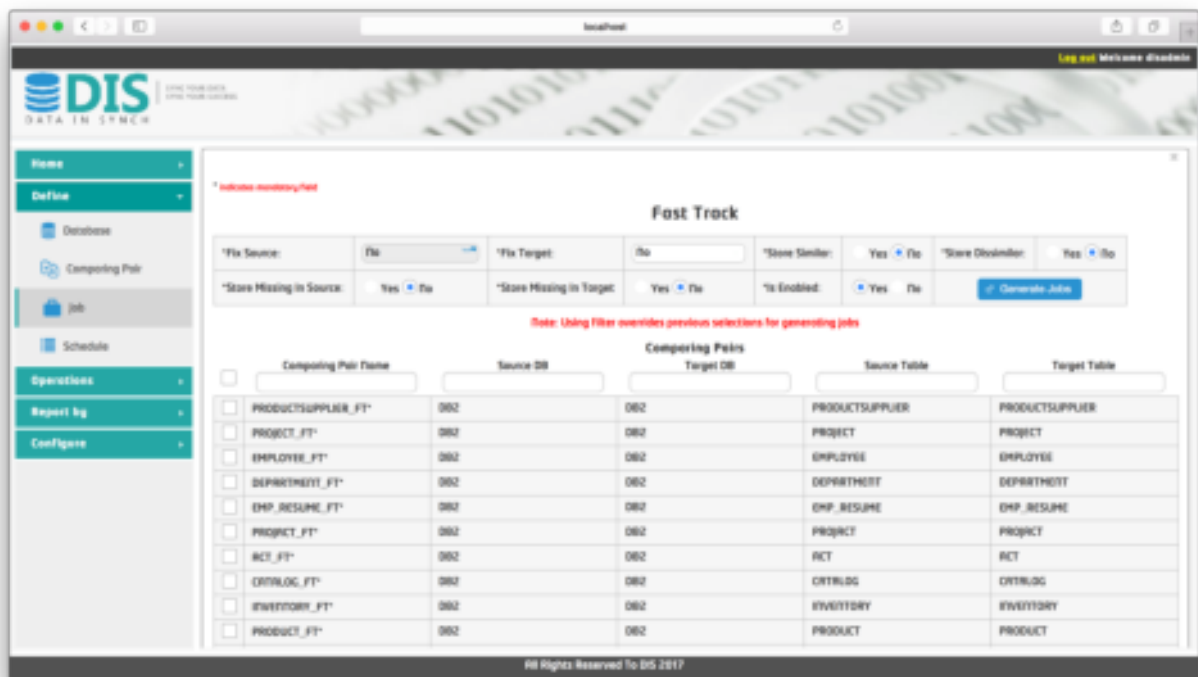
VI. Store Dissimilar: It enables storing details of dissimilar records.

VII. Store Missing In Source: It enables storing details of missing in source records.

VIII. Store Missing In Target: It enables storing details of missing in target records.

IX. Is Enabled: It enables to disable job execution

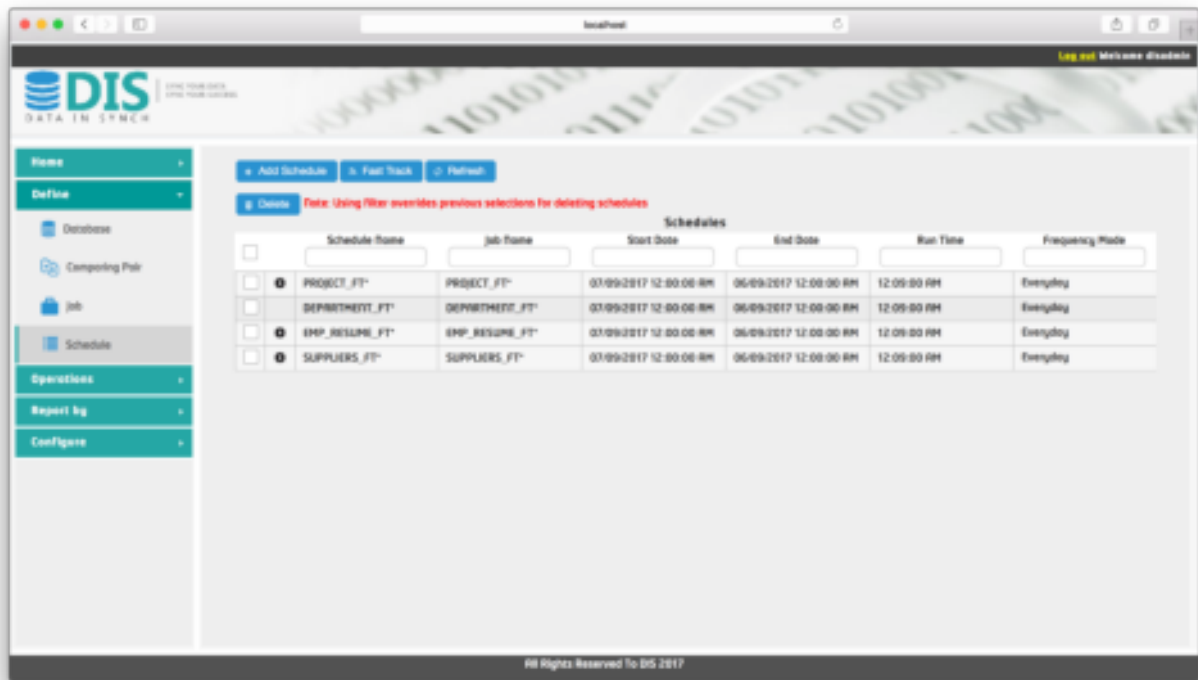
X. then press **Save**.



3. Using ENTERPRISE edition, Fast Track button is available to enable user to create jobs for several comparing pairs by a single click. Follow the following steps to use it:
 - I. Press **Fast Track** button
 - II. Enter all required information such as: Fix Source, Fix Target .. etc.
 - III. Select comparing pairs to create jobs for them
 - IV. Click **Generate Jobs** to generate jobs for selected comparing pairs
4. To delete job, select corresponding checkbox then press **Delete**. Confirmation message will appear. Press Yes to delete or No to cancel.
5. To edit job, press **Pencil** mark corresponding to popup dialog and enter new information. After that, press **Save** to save new information.

Note: Job should not be deleted if it is used by any schedule.

Schedule

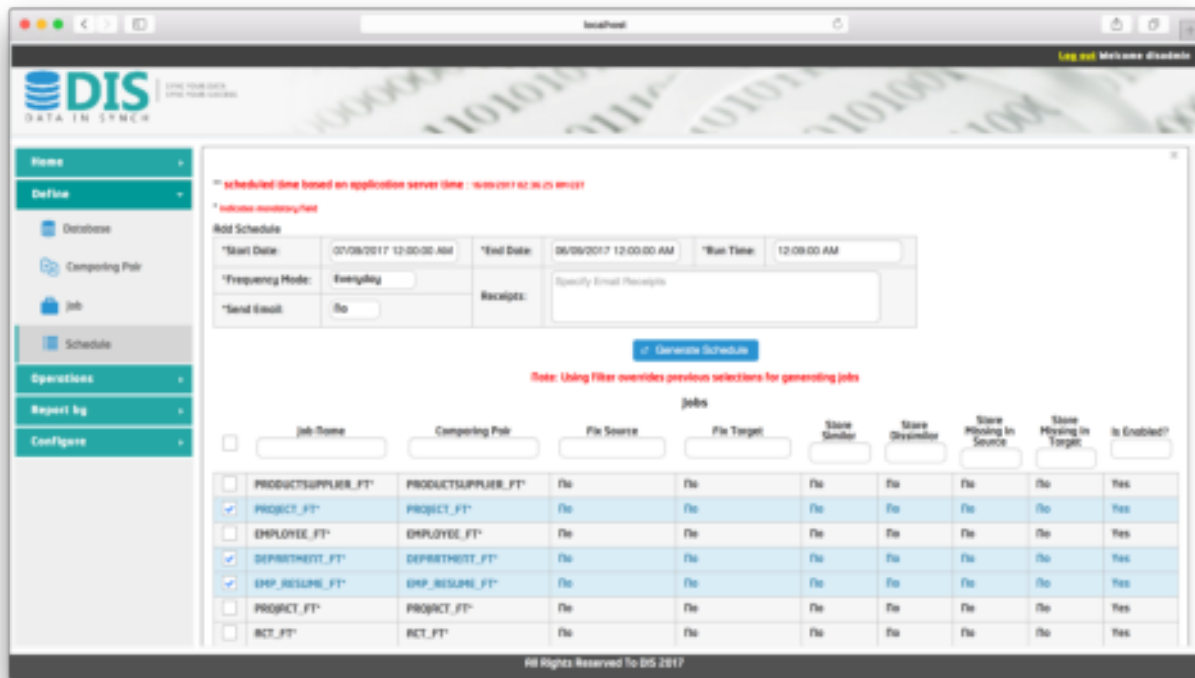


This page allows user to schedule auto executed job. The user can specify start and end time of schedule activation. Also, can specify execution time and execution frequency mode. To receive automatic email execution result, user should enable send email feature and specify correct emails addresses of receipts. There are two options here to use, **Add Schedule** in which user schedule execution jobs one by one and **Fast Track** which is available only in Enterprise edition. It enables user to schedule several jobs by a single click. The following steps explains the steps of first option:

1. Open **Schedule** link from **Define** menu
2. To add job, press **Add Schedule** and enter the following:
 - I. Job Name: Choose the job to be scheduled
 - II. Start Date: Activation date of this schedule
 - III. End Date: Deactivation date of this schedule
 - IV. Run Time: Automatic execution time of this job
 - V. Frequency Mode: Regular basis of execution to run job daily or in specific week day

VI. Send Email: Enable or disable sending results by email

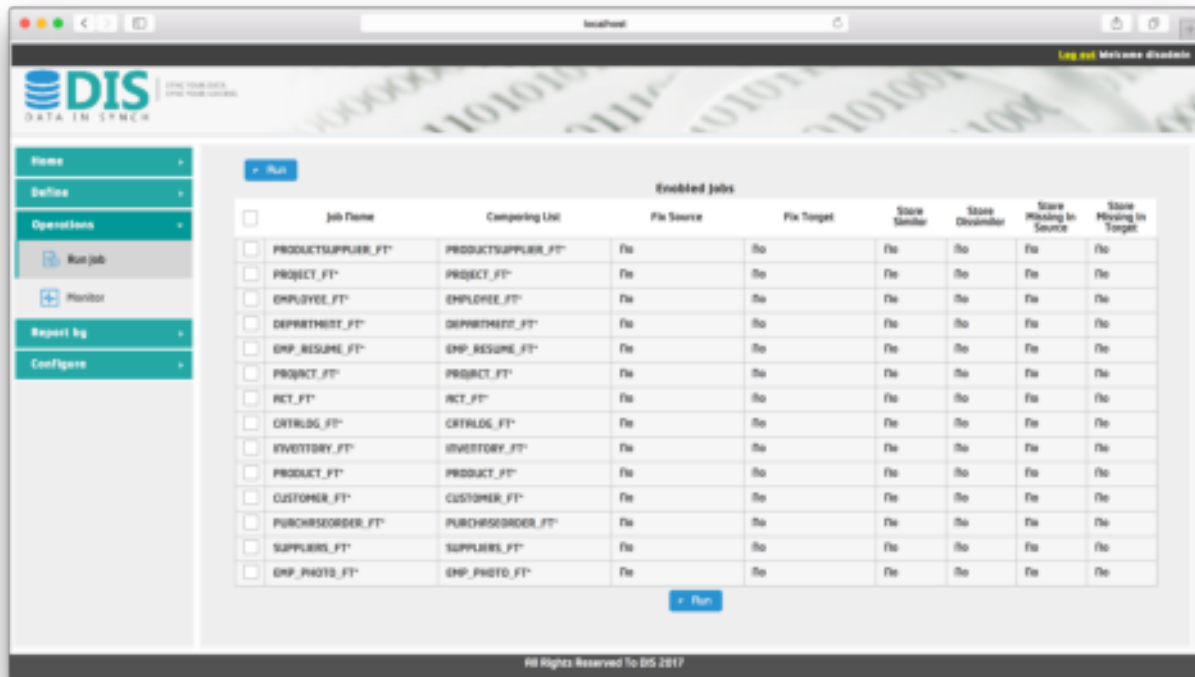
VII.Receipts: Email addresses of people who will receive results of scheduled job execution



3. In ENTERPRISE edition, Fast Track button is available to enable user to create schedules for thousands of jobs by a single click. Follow the following steps to use it:
 - I. Press **Fast Track** button
 - II. Enter all required information such as: Start Date, End Date .. etc.
 - III. Select jobs to create schedules for them
 - IV. Click **Generate Schedules** to generate schedules for selected jobs
4. To delete schedule, select corresponding checkbox then press **Delete**. Confirmation message will appear. Press Yes to delete or No to cancel.

OPERATIONS

Run



To allow user to run job immediately. User just chooses job by clicking checkboxes then press Run to trigger job. Browser will be directed to page which monitors running job and display result

1. Open **Run Job** link from **Operations** menu
2. Choose jobs to run by clicking checkboxes
3. then, Press Run
4. Execution progress is monitored for each sub-job
5. Error message appears for any errors during execution
6. All execution steps are shown in lower section involving all Source Operations, Target Operations, Error Messages and Warning Messages
7. After Completion of execution, aggregated result of job execution appears in execution result section. Detailed result for sub-jobs, can be expanded by pressing left arrow in each arrow.

The screenshot shows the DIS web interface with a job named 'SRC_TABLE_1_FT_V9' in progress. The progress bar is at 16%. The 'Execution Result' table shows 'No records found'. The 'Log Details' table lists various operations such as 'Verification Started', 'Getting Target Information', and 'Source Database Connection Established'.

Job Name	Progress	Status
SRC_TABLE_1_FT_V9	16%	Verifying

Job Name	Start Time	Execution Period	Similar Count	Dissimilar Count	Missing in Source	Missing in Target	Status
No records found.							

User	Date	Type	Job Name	Description
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Verification Started ...
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Getting Target Information
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Target Columns Are Available
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Target Checking Columns Availability
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Target Table Accessibility Is Valid
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Target Checking Table Accessibility
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Getting Source Information
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Source Columns Are Available
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Source Checking Columns Availability
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Source Table Accessibility Is Valid
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Source Checking Table Accessibility
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Target Database Connection Established
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Source Database Connection Established

The screenshot shows the DIS web interface with the same job 'SRC_TABLE_1_FT_V9' now at 98% progress. The 'Execution Result' table still shows 'No records found'. The 'Log Details' table is identical to the previous screenshot, showing the sequence of operations from verification to connection establishment.

Job Name	Progress	Status
SRC_TABLE_1_FT_V9	98%	Verifying

Job Name	Start Time	Execution Period	Similar Count	Dissimilar Count	Missing in Source	Missing in Target	Status
No records found.							

User	Date	Type	Job Name	Description
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Verification Started ...
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Getting Target Information
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Target Columns Are Available
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Target Checking Columns Availability
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Target Table Accessibility Is Valid
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Target Checking Table Accessibility
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Getting Source Information
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Source Columns Are Available
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Source Checking Columns Availability
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Source Table Accessibility Is Valid
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Source Checking Table Accessibility
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Target Database Connection Established
disadmin	16-9-2017 18:58:35	Information	SRC_TABLE_1_FT_V9	Source Database Connection Established

Refresh Rate: 10 seconds

Execution Progress

Job Name	Progress	Status
SRC_TABLE_1_FT-V9	82%	Fixing

Execution Result

Job Name	Start Time	Execution Period	Similar Count	Dissimilar Count	Missing in Source	Missing in Target	Status
No records found.							

Log Details

User	Date	Type	Job Name	Description
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	(0) Records Deleted From Target Database
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	(0) Records Inserted into Source Database
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	Fixing Starts ...
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	No Of Missing in Target : 99999
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	No Of Missing in Source : 0
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	No Of Dissimilar : 0
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	No Of Similar : 0
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	Verification Completed
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	(99999) Missing in Target Rows Stored
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	(99999) Rows Verified
disadmin	16-9-2017 18:58:36	Information	SRC_TABLE_1_FT-V9	Verification Started ...
disadmin	16-9-2017 18:58:36	Information	SRC_TABLE_1_FT-V9	Getting Target Information
disadmin	16-9-2017 18:58:36	Information	SRC_TABLE_1_FT-V9	Target Columns Are Available

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Refresh Rate: 10 seconds

Execution Progress

Job Name	Progress	Status
SRC_TABLE_1_FT-V9	100%	Fixed

Execution Result

Job Name	Start Time	Execution Period	Similar Count	Dissimilar Count	Missing in Source	Missing in Target	Status
SRC_TABLE_1_FT-V9	16-9-2017 18:58:36	146	0	0	0	99999	Fixed

Log Details

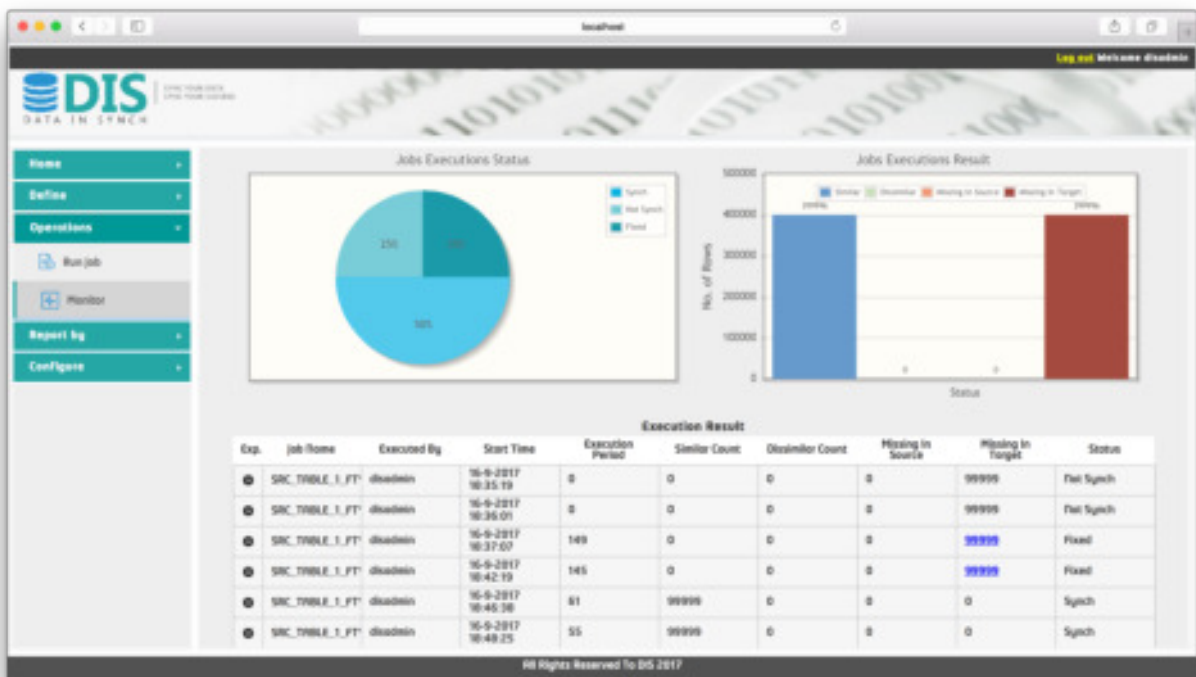
User	Date	Type	Job Name	Description
disadmin	16-9-2017 18:01:02	Information	SRC_TABLE_1_FT-V9	Job Finished Successfully
disadmin	16-9-2017 18:01:02	Information	SRC_TABLE_1_FT-V9	Fixing Completed
disadmin	16-9-2017 18:01:02	Information	SRC_TABLE_1_FT-V9	(0) Records Updated in Target Database
disadmin	16-9-2017 18:01:02	Information	SRC_TABLE_1_FT-V9	(99999) Records Inserted into Target Database
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	(0) Records Deleted From Target Database
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	(0) Records Inserted into Source Database
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	Fixing Starts ...
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	No Of Missing in Target : 99999
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	No Of Missing in Source : 0
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	No Of Dissimilar : 0
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	No Of Similar : 0
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	Verification Completed
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	(99999) Missing in Target Rows Stored
disadmin	16-9-2017 18:58:33	Information	SRC_TABLE_1_FT-V9	(99999) Rows Verified

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Monitor



This page allows user to monitor running jobs of today and display execution results. Open **Monitor** link from **Operations** menu



REPORT BY

Jobs Executions

Exp.	Job Name	Executed By	Start Time	Execution Period	Similar Count	Dissimilar Count	Missing In Source	Missing In Target	Status
▶	CUSTOMERS_FCU	disadmin	2017-02-04 06:30:44.0	20	99975	2	5	30	Failed
▶	CUSTOMERS_FCU	disadmin	2017-02-04 06:31:43.0	39	100000	0	0	0	Sync
▶	CUSTOMERS_VFI	disadmin	2017-02-13 03:25:54.0	35	100000	0	0	0	Sync
▶	CUSTOMERS_FCU	disadmin	2017-02-13 03:35:38.0	25	100000	0	0	0	Sync
▶	CUSTOMERS_VFI	disadmin	2017-02-13 06:09:35.0	25	100000	0	0	0	Sync
▶	CUSTOMERS_FCU	disadmin	2017-02-13 06:10:07.0	13	100000	0	0	0	Sync
▶	CUSTOMERS_VFI	system	2017-02-13 08:00:13.0	7	100000	0	0	0	Sync

User retrieves jobs executions results using this page. Results are related to jobs executed using Run Job page. Filter involves start and end times of job execution. It specifies job to display all executions results which contains counts of similar, dissimilar, missing in target and missing in source records. This filter is optional which means that it cannot be chosen to get all execution performed manually.

1. Open **Jobs Execution** link from **Report by** menu
2. Specify filter criteria
3. then, Press Refresh

In the first column, there is arrow used to expand the details of job execution. This expansion contains details about each sub-job such as: cashing period, verifying period, fixing period, status and four types of counts similar, dissimilar, missing in target and missing in source are generated.

As shown in report, figures in blue indicate that records' details of job execution can be displayed by clicking them.

Dissimilar Records

Source Record

(1 of 1) -- -- 1 -- -- 25

CUSTOMER_ID	ACCOUNT_MGR_ID	CREDIT_LIMIT	CUSTOMER_CLASS	CUSTOMER_SOURCE	CUST_EMAIL	CUST_FIRST_NAME	CUST_LAST_NAME	DOB	NO
2304	478	10000	Occasional	2011-01-14 00:00:00.0	den.andreus@virgin.com	hubert	nelson	1980-12-18 00:00:00.0	Y
2304	478	10000	Occasional	2011-01-14 00:00:00.0	test	hubert	nelson	1980-12-18 00:00:00.0	Y
2325	469	5500	Occasional	2007-12-31 00:00:00.0	sporen.sporen@free.com	sicking	neuman	1956-10-12 00:00:00.0	Y
2325	469	5500	Occasional	2007-12-31 00:00:00.0	test	sicking	neuman	1956-10-12 00:00:00.0	Y

(1 of 1) -- -- 1 -- -- 25

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Filtering Criteria

Job Name: Start Time: End Time:

Executed Jobs

Exp.	Job Name	Executed By	Start Time	Execution Period	Similar Count	Dissimilar Count	Missing in Source	Missing in Target	Status
●	CUSTOMERS_F00	disadmin	2017-02-04 06:30:44.0	20	99975	2	5	30	Fixed
●	CUSTOMERS_F00	disadmin	2017-02-04 06:31:43.0	30	100000	0	0	0	Sync
●	CUSTOMERS_V01	disadmin	2017-02-13 03:35:54.0	35	100000	0	0	0	Sync
●	CUSTOMERS_F00	disadmin	2017-02-13 03:35:38.0	25	100000	0	0	0	Sync

Execution Details

Cooking Period	Verifying Period	Fixing Period	Similar	Dissimilar	Missing in Source	Missing in Target	Status
25	0	0	100000	0	0	0	Sync

Log Details

Source Operations **Error Messages** Warning Messages Target Operations

User	Date	Type	Job Name	Description
disadmin	2017-02-13 03:37:04.0	Information	CUSTOMERS_F00F5	Job finished successfully
disadmin	2017-02-13 03:37:04.0	Information	CUSTOMERS_F00F5	Subjob CUSTOMERS_F00F500 finished
disadmin	2017-02-13 03:37:04.0	Information	CUSTOMERS_F00F5	Subjob CUSTOMERS_F00F500 - Verification Process Completed
disadmin	2017-02-13 03:37:04.0	Information	CUSTOMERS_F00F5	Subjob CUSTOMERS_F00F500 - Starting Verification Process ...
disadmin	2017-02-13 03:37:04.0	Information	CUSTOMERS_F00F5	Subjob CUSTOMERS_F00F500 - Target Caching Time (25)
disadmin	2017-02-13 03:37:04.0	Information	CUSTOMERS_F00F5	Subjob CUSTOMERS_F00F500 - Target Data Row Count (100000)
disadmin	2017-02-13 03:37:04.0	Information	CUSTOMERS_F00F5	Subjob CUSTOMERS_F00F500 - Target Data Cache Completed

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Scheduled Executions



User retrieves scheduled jobs executions results. Results in this report related to jobs executed automatically using scheduler. Filter involves activation's start and end times of job execution. It specifies job from scheduled jobs to display all executions results which contains counts of similar, dissimilar, missing in target and missing in source records. This filter is optional which means that it cannot be chosen to get all execution performed automatically.

1. Open **Scheduled Execution** link from **Report by** menu
2. Specify filter criteria
3. then, Press Refresh

In the left column, there is arrow used to expand the details of job execution. This expansion contains details about each sub-job such as: cashing period, verifying period, fixing period, status and four types of counts similar, dissimilar, missing in target and missing in source are generated. Figures in blue indicate that records' details of job execution can be displayed by clicking them.

The screenshot displays the DIS Data Sync web application interface. The browser address bar shows '192.168.16.00'. The application header includes the DIS logo and a 'Log out' button. A left sidebar contains navigation options: Home, Define, Operations, Report by (Jobs Executions, Scheduled Executions, Users Executions), and Configure.

The main content area features a 'Filtering Criteria' section with 'Scheduled Job' set to 'ALL', 'Start Time' as 'Execution Start Time', and 'End Time' as 'Execution End Time'. Below this is a table of 'Executed Jobs' for the job 'CUSTOMERS_VERIFY', which shows 7 execution periods, 100000 similar records, and 0 dissimilar records, with no missing data in source or target.

An 'Execution Details' table shows the same metrics for the selected job. Below that is a 'Log Details' section with tabs for 'Source Operations', 'Error Messages', 'Warning Messages', and 'Target Operations'. The log table lists various system messages such as 'Job finished successfully', 'Verification Process Completed', and 'Caching Source Data ...'.

At the bottom of the interface, it states 'All Rights Reserved To DIS 2017'.

Users Executions

The screenshot displays the 'Users Executions' report in the DIS web application. The interface includes a sidebar menu with 'Users Executions' selected. The main content area shows a 'Filtering Criteria' section with fields for 'User Name' (dheadin), 'Start Time', 'End Time', and 'Execution End Time', along with a 'Refresh' button. Below this is a table titled 'Executed jobs' with the following data:

Exp.	Job Name	Start Time	Execution Period	Similar Count	Dissimilar Count	Missing in Source	Missing in Target	Status
+	CUSTOMERS_FIX/3	2017-02-04 06:30:44.0	28	99975	2	5	18	Fixed
+	CUSTOMERS_FIX/4	2017-02-04 06:31:45.0	39	100000	0	0	0	Sync
+	CUSTOMERS_VERIFY	2017-02-13 03:35:54.0	35	100000	0	0	0	Sync
+	CUSTOMERS_FIX/5	2017-02-13 03:36:38.0	25	100000	0	0	0	Sync
+	CUSTOMERS_VERIFY	2017-02-13 06:09:35.0	25	100000	0	0	0	Sync
+	CUSTOMERS_FIX/6	2017-02-13 06:30:07.0	13	100000	0	0	0	Sync

User retrieves jobs executions results. Results in this report related to jobs executed manually. Filter involves start and end times of job execution. It specifies job from scheduled jobs to display all executions results which contains counts of similar, dissimilar, missing in target and missing in source records. This filter is optional which means that it cannot be chosen to get all execution performed manually.

1. Open **User Execution** link from **Report by** menu
2. Specify filter criteria
3. then, Press Refresh

In the left column, there is arrow used to expand the details of job execution. This expansion contains details about each sub-job such as: cashing period, verifying period, fixing period, status and four types of counts similar, dissimilar, missing in target and missing in source are generated. Figures in blue indicate that records' details can of job execution stored can be displayed by clicking them.

Missing in Target

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CUSTOMER_ID	ACCOUNT_MGR_ID	CREDIT_LIMIT	CUSTOMER_CLASS	CUSTOMER_SINCE	CUST_EMAIL	CUST_FIRST_NAME	CUST_LAST_NAME	DOB
2321	580	5000	Occasional	2007-06-19 00:00:00.0	don.soto@bellsouth.com	tracy	harvey	1984-02-09 00:00:00
2320	548	6000	Occasional	2011-05-19 00:00:00.0	welface.rjays@red.com	cameron	richardson	1984-08-27 00:00:00
2318	523	6000	Occasional	2008-05-01 00:00:00.0	jeck.cortsen@gmail.com	clarence	wade	1954-07-12 00:00:00
2317	335	5000	Occasional	2001-09-14 00:00:00.0	dorell.bell@red.com	leo	chan	1977-10-19 00:00:00
2316	593	6000	Occasional	2008-08-30 00:00:00.0	rafael.pedillo@googlemail.com	ryan	arnold	1979-08-29 00:00:00
2315	479	10000	Occasional	2012-01-11 00:00:00.0	michael.haynes@t.com	duwayne	wilson	1972-10-23 00:00:00
2314	520	5000	Occasional	2010-02-10 00:00:00.0	bill.grogg@comcast.com	leon	sultan	1989-07-09 00:00:00
2313	535	6500	Prime	2008-02-26 00:00:00.0	dale.parker@verizon.com	eric	mcdoniel	1954-07-08 00:00:00
2312	351	6500	Business	2000-10-12 00:00:00.0	hugh.moran@attusd.net	arnold	bradford	1998-06-12 00:00:00
2311	722	5000	Business	2000-05-19 00:00:00.0	sean.martinez@att.net	brain	neal	1991-07-17 00:00:00
2310	474	6000	Prime	2005-11-18 00:00:00.0	jessie.robinson@virginia.com	owen	adams	1993-11-12 00:00:00
2310	442	5000	Occasional	2008-05-13 00:00:00.0	martin.lewis@bellsouth.com	fred	boyd	1983-02-28 00:00:00
2307	476	6500	Occasional	2010-03-24 00:00:00.0	loryn.carroll@virginia.com	frederick	douglas	1995-08-29 00:00:00
2306	325	3000	Occasional	2012-01-21 00:00:00.0	carlos.morgan@comcast.com	fernando	baker	1958-10-28 00:00:00
2323	446	6000	Occasional	2006-12-23 00:00:00.0	brant.ferguson@virginia.com	stonley	arnold	1965-09-08 00:00:00
2322	560	5500	Occasional	2004-08-31 00:00:00.0	antara.moaning@cox.com	women	hopper	1952-05-23 00:00:00
2309	487	6000	Business	2011-10-11 00:00:00.0	percy.parker@ime.com	kerl	certez	1974-04-16 00:00:00
2308	451	5000	Occasional	2004-10-16 00:00:00.0	theadore.jensen@eduworld.com	oliver	mollenrede	1956-07-30 00:00:00

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Missing in Source

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CUSTOMER_ID	ACCOUNT_MGR_ID	CREDIT_LIMIT	CUSTOMER_CLASS	CUSTOMER_SINCE	CUST_EMAIL	CUST_FIRST_NAME	CUST_LAST_NAME	DOB
1306	509	6000	Occasional	2009-02-03 00:00:00.0	luis.richardson@googlemail.com	henry	leue	1991-04-14 00:00:00
1305	602	5500	Regular	2006-07-31 00:00:00.0	joel.greenell@man.com	anthony	west	1980-06-09 00:00:00
1304	458	5500	Occasional	2011-12-15 00:00:00.0	julius.perez@bellsouth.com	walker	fox	1954-11-12 00:00:00
1303	279	5500	Prime	2005-04-01 00:00:00.0	richard.pauwe@t.com	bradley	croig	1970-10-01 00:00:00
1307	479	6500	Occasional	2011-06-18 00:00:00.0	harold.lindsey@plunet.com	colvin	weeds	1966-03-13 00:00:00

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The screenshot displays the DIS Data In Synch web application interface. The top navigation bar includes the DIS logo and the tagline 'DATA IN SYNCH'. The main content area is titled 'Filtering Criteria' and shows the user 'doadmin' with filters for 'Start Time' and 'End Time'. Below this, the 'Executed Jobs' table lists two jobs: 'CUSTOMERS_F003' and 'CUSTOMERS_F004'. The 'CUSTOMERS_F004' job is selected, and its 'Execution Details' are shown, including 'Caching Period', 'Verifying Period', 'Flating Period', 'Similar', 'Dissimilar', 'Missing in Source', 'Missing in Target', and 'Status'. The 'Log Details' section is expanded to show 'Source Operations', 'Warning Messages', and 'Target Operations'. The 'Warning Messages' table lists various informational messages from the user 'doadmin' regarding the job's progress, such as 'job finished successfully', 'Verification Process Completed', 'Source Caching Time (39)', 'Source Data Row Count (100000)', 'Source Data Cache Completed', 'Starting Verification Process ...', 'Target Caching Time (39)', 'Target Data Row Count (100000)', and 'Target Data Cache Completed'. The footer of the application states 'All Rights Reserved To DIS 2017'.