

ORACLE®

Financial Services

Regulatory Reporting Solution – Derived Entity Incremental Refresh

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Program Specification

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ORACLE®



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Incremental Refresh

This section provides the program specification for Derived Entity (DE) Incremental Materialized Views (MV) Refresh information for the Oracle Financial Services Regulatory Reporting Solution.

Definition

Incremental refresh helps in DEs refreshing for a particular Run Skey and MIS Date and appending to the existing DE. This helps in improving the processing time. As materialized views are created with “refresh FORCE ON demand”, FAST refresh option provided by Oracle is not used. “ON PREBUILT TABLE REFRESH FORCE” option is used for incremental refresh.

Prerequisites

The prerequisite for Incremental Refresh are:

1. Materialized views which are already available only in the schema will be refreshed.
2. DIM_RUN and DIM_DATES must be part of the dataset of the MVs.

Process Flow

The process to perform incremental refresh is as follows:

1. Create a Batch
2. Add a Task with parameters
 - a. Datastore Type: EDW
 - b. Datastore Name: <INFODOM>
 - c. Primary IP for Runtime Process: <Default>
 - d. Rule Name: FN_MV_INCREM_REFRESH
 - e. Parameter List:
"\$RUNID=1234", "\$PHID=1234", "\$EXEID= 1234", "\$RUNSK=21", "DEFD3021", "0"

NOTE: RUNID, PHID, EXEID are placeholders and does not have meaning in the context.

3. Change RUNSK to valid Run Skey
4. [Change DE Name and Refresh Option](#)

Input Parameters

The input parameters are as follows:

1. DE Name
Materialized view name must be passed. Incremental Refresh is performed for the given materialized view. Length of the materialized view name should be less than or equal to 18 characters.
2. Refresh Option
This is refresh option parameter. Parameter values are 0 or 1.

- a. **0** for incremental refresh with retaining the history results. Processing Run Skey / MIS Date data is appended to the MV along with existing history (previous Run Skey) result data.
- b. **1** for incremental refresh without retaining the history results. Only processing Run Skey data is available and other options are not retained. This option can be used for non-aggregate MV Refresh, where non-aggregate MV is not used for reporting and used as reference MV in the reporting MV.

The screenshot shows the 'Task Definition' window. At the top right are 'Save', 'Reset', and 'Close' buttons. The 'Task Definition' section contains 'Task ID' (Task1) and 'Description' (DEFD7021). Below is a 'Components' dropdown menu set to 'TRANSFORM DATA'. The 'Dynamic Parameters List' section is a table with columns 'Property' and 'Value':

Property	Value
Datastore Type	EDW
Datastore Name	FSDFINFO
Primary IP For Runtime Processes	10.184.148.63
Rule Name	FN_MV_INCREM_REFRESH
Parameter List	=1234; '\$RUNSK=21'; 'DEFD7021'; '0'

The 'Audit Panel' at the bottom shows 'Created By' and 'Creation Date' fields, and 'Last modified by' and 'Last Modification Date' fields.

Task Definition Screen

Audit Table

The audit table used for logging is FSI_MVIEW_REFRESH_AUDIT. This table must be created as part of installer before compiling the function.

The audit table column information is as follows.

Column Name	Description
V_BATCH_RUN_ID	Stores the batch execution ID.
V_TASK_ID	Stores the task ID of the run.
V_COMPONENT_ID	Stores the materialized view name which is refreshed.
V_TASK_STATUS	Stores the task status. O - Ongoing, S - Success and F - Failed.
V_TASK_STATUS_DETAILS	Stores the execution details, which will be useful while the function execution is failed.
T_START_TIMESTAMP	Stores the start time of the MV Refresh.
T_END_TIMESTAMP	Stores the end time of the MV Refresh.
V_DE_TAB_DDL	Stores the MV table creation DDL SQL.
V_DE_MV_DDL	Stores the MV DDL SQL before starting the process.

V_DDL_QRY	Stores the select part of MV DDL SQL before starting the process.
V_INCREMENTAL_REFRESH_QRY	Stores the modified query which is used for incremental refresh.
V_BACKUP_TABLE_NAME	Stores the backup table name. If function execution fails, then backup table is retained else it is dropped.
N_RECORDS_REFRESHED	Stores the count of records refreshed as part of the incremental refresh.

Parallelism

Degree parallelism can be specified for refreshing materialized views. The following two values in SETUP_MASTER table enables and provides degree of parallelism (DOP) values:

1. DT_PARALLEL_ENABLE: Valid values: **Y** for enabling parallelism or **N** for disabling parallelism.
2. DT_PARALLEL_DOP: Any integer value for parallelism.

Hardware/Software Tech Stack Details

The hardware/software combinations required for OFS REG REP Solutions are available at the [OHC Tech Stack](#).

Licensing Information

For details on the third party software tool used, see *OFSAA Licensing Information User Manual Release 8.0.6.0.0* available at the [OHC Documentation Library](#).



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For more information about Oracle Financial Services Regulatory Reporting Solution – Derived Entity Incremental Refresh, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

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