DBMS_IOT

The DBMS_IOT package creates a table into which references to the chained rows for an indexorganized table can be placed using the ANALYZE command. DBMS_IOT can also create an exception table into which references to the rows of an index-organized table that violate a constraint can be placed during the enable constraint operation.

 ${\tt DBMS_IOT} \ \, \textbf{is not loaded during database installation. To install } \ \, \texttt{DBMS_IOT}, \ \, \textbf{run } \ \, \texttt{dbmsiotc.sql}, \\ \textbf{available in the } \ \, \texttt{ADMIN } \ \, \textbf{directory}.$

This chapter contains the following topics:

Summary of DBMS_IOT Subprograms



With the introduction of logical-rowids for IOTs with Oracle Database Release 8.1, you no longer need to use the procedures contained in this package which is retained for backward compatibility only. It is however required for servers running with Oracle Database Release 8.0.

Summary of DBMS_IOT Subprograms

This table lists and briefly describes the DBMS_IOT subprograms.

Table 109-1 DBMS_IOT Package Subprograms

Subprogram	Description
BUILD_CHAIN_ROWS_TABLE Procedure	Creates a table into which references to the chained rows for an index-organized table can be placed using the ANALYZE command
BUILD_EXCEPTIONS_TABLE Procedure	Creates an exception table into which rows of an index-organized table that violate a constraint can be placed

BUILD_CHAIN_ROWS_TABLE Procedure

This procedure creates a table into which references to the chained rows for an indexorganized table can be placed using the ${\tt ANALYZE}$ command.

Syntax

Parameters

Table 109-2 BUILD_CHAIN_ROWS_TABLE Procedure Parameters

Parameter	Description
owner	Owner of the index-organized table.
iot_name	Index-organized table name.
chainrow_table_name	Intended name for the chained-rows table.

Usage Notes

You should create a separate chained-rows table for each index-organized table to accommodate its primary key.

Examples

```
CREATE TABLE 1(a char(16), b char(16), c char(16), d char(240), PRIMARY KEY(a,b,c)) ORGANIZATION INDEX pctthreshold 10 overflow; EXECUTE DBMS IOT.BUILD CHAIN ROWS TABLE('SYS','L','LC');
```

A chained-row table is created with the following columns:

Column Name	Null?	Туре
OWNER_NAME		VARCHAR2(30)
TABLE_NAME		VARCHAR2(30)
CLUSTER_NAME		VARCHAR2(30)
PARTITION_NAME		VARCHAR2(30)
SUBPARTITION_NAME		VARCHAR2(30)
HEAD_ROWID		ROWID
TIMESTAMP		DATE
A		CHAR (16)
В		CHAR (16)
C		CHAR (16)

BUILD_EXCEPTIONS_TABLE Procedure

This procedure creates an exception table.

Rows of an index-organized table that violate a constraint can be placed into this table during the execution of the following SQL statements:

- ALTER TABLE ... ENABLE CONSTRAINT ... EXCEPTIONS INTO
- ALTER TABLE ... ADD CONSTRAINT ... EXCEPTIONS INTO

Syntax



Parameters

Table 109-3 BUILD_EXCEPTIONS_TABLE Procedure Parameters

Parameter	Description
owner	Owner of the index-organized table.
iot_name	Index-organized table name.
exceptions_table_name	Intended name for exception-table.

Usage Notes

You should create a separate exception table for each index-organized table to accommodate its primary key.

Examples

```
EXECUTE DBMS_IOT.BUILD_EXCEPTIONS_TABLE('SYS','L','LE');
```

An exception table for the preceding index-organized table with the following columns:

Column Name	Null?	Type
ROW_ID		VARCHAR2(30)
OWNER		VARCHAR2(30)
TABLE_NAME		VARCHAR2(30)
CONSTRAINT		VARCHAR2(30)
A		CHAR (16)
В		CHAR (16)
C		CHAR (16)

