Using LOGDUMP Utility

by Ahmed Baraka

Objectives

By the end of this lecture, you should be able to:

- Use the LOGDUMP to navigate in the trail file records
- Understand the output of the LOGDUMP utility
- Control the LOGDUMP view
- Display statistics about the records in a trail file

About LOGDUMP

- Search for, filter, view, and save data that is stored in a trail

Trail structure:

Header structure:

Transaction structure:

Starting LOGDUMP

- Issue LOGDUMP in the Oracle GoldenGate home directory

```
./logdump
```

- To display the online command help:

```
Logdump > HELP
```

- To exit:

```
Logdump > EXIT | QUIT
```

Opening a Trail

- User `OPEN` command:

```
Logdump 12> open ./dirdat/hr1000004
```

Setting Up the View

Command	Effect
`GHDR ON`	View the record header
`DETAIL ON`	Display further information like column information
`DETAIL DATA`	Add hex and ASCII data values to the column information
`USERTOKEN ON`	Display user tokens
`FILEHEADER ON`	Display contents of the currently open trail file header

- To display enabled features:

```
ENV
```

Navigating and Searching the Records

- Set the read position (**POS**):

```
POSITION [<RBA> | {0 | FIRST} | EOF | REV | FOR]
```

- Search for the next record header (**SFH**):

```
SCANFORHEADER [PREV]
```

- Display next record (**N**):

```
NEXT
```

Searching the Metadata Records

- Search for the next record header (**SFMD**):

```
SCANFORMETADATA [DDR|TDR] [Index|NEXT]
```

LOGDUMP Record Sample


```
Hdr-Ind    :     E  (x45)     Partition  :     L  (x4c)
UndoFlag   :     .  (x00)     BeforeAfter:     A  (x41)
RecLength  :   778  (x030a)    IO Time    : 2017/02/17 01:31:39.000.000
IOType     :   135  (x87)     OrigNode   :   255  (xff)
TransInd   :     .  (x03)     FormatType :     R  (x52)
SyskeyLen  :     0  (x00)     Incomplete :     .  (x00)
AuditRBA   :          19      AuditPos   : 17520144
Continued  :     N  (x00)     RecCount   :     1  (x01)

2017/02/17 01:31:39.000.000 GGSUnifiedPKUpdate   Len   778 RBA 3168
Name: OGG.GG_HEARTBEAT_SEED  (TDR Index: 1)
After  Image:                                             Partition 76
 0000 0183 0000 0007 0000 0003 4442 3100 0100 1f00 | ............DB1.....
 0032 3031 372d 3032 2d31 363a 3231 3a33 303a 3338 | .2017-02-16:21:30:38
 2e32 3339 3839 3630 3030 0002 0004 ffff 0000 0003 | .239896000..........
 0004 ffff 0000 0004 0004 ffff 0000 0005 0004 ffff | ....................
 0000 0006 001f ffff 3230 3137 2d30 322d 3137 3a30 | ........2017-02-17:0
 313a 3331 3a34 302e 3733 3135 3031 0063 8e00 0700 | 1:31:40.731501.c....
 1fff ff32 3031 372d 3032 2d31 373a 3031 3a33 313a | ...2017-02-17:01:31:
Before Image          Len   391 (x00000187)
BeforeColumnLen    387 (x00000183)
```

Record Location in a Transaction

TransInd Value	Record location
x00	First statement in transaction
x01	Statement in middle of transaction
x02	Last statement in transaction
x03	Sole statement in transaction

Filter In or Out a Records of a Table

- Set a filter based on a table or CSN:

```
FILTER [INCLUDE | EXCLUDE] FILENAME schema.table
FILTER [INCLUDE | EXCLUDE] CSN <value>
```

- Clear the current filter criteria:

```
FILTER CLEAR
```

- Examples:

```
Logdump 60> FILTER INCLUDE FILENAME hr.leaves
Logdump 61> FILTER EXCLUDE FILENAME hr.leaves
```

The COUNT Command

- Display general statistics in the trail

```
COUNT [, DETAIL] [, END[TIME] time_string] [, FILE specification]
[, INT[ERVAL] minutes] [, LOG] wildcard]
[, START[TIME] time_string]
```

```
Logdump 15 >count
LogTrail /app/ggs/dirdat/hr1000004 has 145686 records
Total Data Bytes 12428256
Avg Bytes/Record 217
Delete 45612
Insert 1235
FieldComp 43234
…
```

The COUNT with the DETAIL ON

- Group output by table:

```
Logdump 16 >detail on
Logdump 17 >count
...
HR.EMPLOYEES                Partition 4
Total Data Bytes 2721
Avg Bytes/Record 301
Insert 4
After Images 2
...
```

Saving Records to a New Trail File

- To save the records into a file:

```
SAVE file  [ <n> RECORDS ]
```

Summary

In this lecture, you should have learnt how to:

- Use the LOGDUMP to navigate in the trail file records
- Understand the output of the LOGDUMP utility
- Control the LOGDUMP view
- Display statistics about the records in a trail file