

# Using LOGDUMP Utility

by Ahmed Baraka

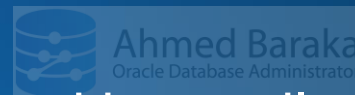
# Objectives



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



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Oracle Database Administrator

- Issue LOGDUMP in the Oracle GoldenGate home directory

```
./logdump
```

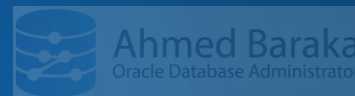
- To display the online command help:

```
Logdump > HELP
```

- To exit:

```
Logdump > EXIT | QUIT
```

# Opening a Trail



- User `OPEN` command:

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

# Setting Up the View



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

- To display enabled features:

**ENV**

# Navigating and Searching the Records



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- 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



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

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



# LOGDUMP Record Sample



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```
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



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

# Filter In or Out a Records of a Table



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- 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



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- 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



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- 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



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- 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
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- Display statistics about the records in a trail file