

Db Report

DbL^AT_EXReport
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Chapter 1

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Chapter 2

Licence

2.1 DbLatexReport

DbLatexreport (Database \LaTeX Report) is a free open source GPL licenced tool that allows you to report a given Db connection (a single connection is required) into a standard Latex report. This tool will be soon released on <http://sourceforge.net> website and thus have it's dedicated website with output samples, command line examples, how to, ...

Still you can contact me by mail at <mailto:prslump@msn.com> to tell me you like the tool, or for any other request.

The program does not rely on external libraries, the only the only requirement is a Java 1.5 runtime as DbLatexReport uses Generics.

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Chapter 3

Database Link Properties

3.1 Connection properties (19)

Details on current connection :

Table 3.1: Connection Properties

Parameter	Value	Detailed Description
Catalog		Current catalog name
TransactionIsolation	TRANSACTION_READ_COMMITTED	current transaction isolation - level
CatalogSeparator		Separator between a catalog - and table name
CatalogTerm		database vendor's preferred term for "catalog"
DatabaseProductName	Oracle	name of this database product
DatabaseProductVersion	Oracle Database 10g Enterprise Edition Release 10.2.0.1.0 - Production With the Partitioning, OLAP and Data Mining options	version number of this database product
DefaultTransactionIsolation	TRANSACTION_READ_COMMITTED	database's default transaction isolation level
DriverMajorVersion	10	JDBC driver major version
DriverMinorVersion	2	JDBC driver minor version
DriverName	Oracle JDBC driver	JDBC driver name
DriverVersion	10.2.0.1.0	JDBC driver version
IdentifierQuoteString	"	the string used to quote SQL identifiers

JDBCMajorVersion	10	major JDBC version number
JDBCMinorVersion	2	minor JDBC version number
ProcedureTerm	procedure	vendor term for "procedure"
SchemaTerm	schema	vendor term for "schema"
URL	jdbc:oracle:thin:@localhost:1521:A-DRIEN	URL for this DBMS
UserName	SCOTT	the user name as known to this database
Login Timeout	0	maximum time in seconds that a driver can wait when attempting to log in to a database

3.2 Db Link Host properties

Find below summarized properties :

Table 3.2: Os Properties

Parameter	Value	Description
OS Account	AdrienS	User's account name
Os Name	Windows XP	Operating System Name
OS architecture	x86	Operating system architecture
OS Version	5.1	Operating system version
Path Separator	;	Path Separator
Line separator		Line separator
Home dir.	C:\Documents and Settings\AdrienS	User's home directory
Work. Dir	C:\myopensource\DbLatexReport\target	User's current working directory
Java Version	1.5.0_09	Java Runtime Environment version
Java Vendor	Sun Microsystems Inc.	Java Runtime Environment vendor
Java Vendor Url	http://java.sun.com/	Java vendor URL
JAVA_HOME	C:\Program Files\Java\jre1.5.0_09	Java installation directory
JVM spec.-version	1.0	Java Virtual Machine specification version
JVM spec.-Name	Java Virtual Machine Specification	Java Virtual Machine specification Name

JVM specification ver.	1.5.0_09-b03	Java Virtual Machine specification version
JVM ver.	1.5.0_09-b03	JVM Version
JVM implementation - vendor	Sun Microsystems Inc.	Java Virtual Machine implementation vendor
JVM implementation - name	Java HotSpot(TM) Client VM	Java Virtual Machine implementation name
JRE specification version	1.5	Java Runtime Environment specification version
JRE specification vendor	Sun Microsystems Inc.	Java Runtime Environment specification vendor
JRE specification name	Java Platform API Specification	Java Runtime Environment specification name
Java class format version number	49.0	Java class format version number
Classpath	%LOCALCLASSPATH%;classes12.zip;DbLatexReport-2006-11-02.jar;classes12.zip;DbLatexReport-2006-11-02.jar	Java class path
Lib paths	C:\WINDOWS\system32;;C:\WINDOWS\system32;C:\WINDOWS;C:\oracle\product\1-0.2.0\db_1\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wbem;C:\Program Files\ATI Technologies\ATI Control Panel;C:\Program Files\Java\jdk1.5.0_09\bin;C:\maven-2.0.4\bin;C:\fop-0.20.5;%IN_PATH%;C:\Program Files\Microsoft SQL Server\80\Tools\BINN	List of paths to search when loading libraries

Tmp dir	C:\DOCUME 1\AdrienS\LOCALS 1\Temp\	Default temp file-path
JIT Compiler		Name of JIT compiler to use
Ext dir.	C:\Program Files\Java\jre1.5.0_09\lib\ext	Path of extension directory or directories

3.3 Database Limitations (74)

Please find below target (behind the current odbc dsn link) Database limitations.

Table 3.3: Database Limitations

Parameter	Value	Description
Max Binary Literal Length	1000	maximum length (in hex characters) for a binary literal
Max Char Literal Length	2000	maximum number of characters allowed - for a character literal
Max Column Name Length	30	maximum number of characters allowed - for a column name
Max Columns In Group By	0	maximum number of columns this database allows in a GROUP BY clause
Max Columns In Index	32	maximum number of columns this database allows in an index
Max Columns In Order By	0	maximum number of columns this database allows in an ORDER BY clause
Max Columns In Select	0	maximum number of columns this database allows in a SELECT code
Max Columns In Table	1000	maximum number of columns this database allows in a table
Max Connections	0	Retrieves the maximum number of concurrent connections to this database that are possible
Max Cursor Name Length	0	maximum number of characters that this database allows in a cursor name
Max Index Length	0	maximum number of bytes this database allows for an index, including all of the parts of the index

Max Schema Name Length	30	maximum number of characters that this database allows in a schema
Max Procedure Name Length	30	maximum number of characters that this database allows in a procedure name
Max Catalog Name Length	0	maximum number of characters that this database allows in a catalog name
Max Row Size	2000	Retrieves the maximum number of bytes this database allows in a single row
Max Row Size Include Blobs	1	Retrieves whether the return value for the method getMaxRowSize includes the SQL data types LONGVARCHAR and LONGVARBINARY
Max Statement Length	65535	Maximum number of characters this database allows in an SQL statement
Max Statements	0	The maximum number of active statements to this database that can be open at the same time
Max Tables In Select	0	Retrieves the maximum number of table in a select
Max Table Name Length	30	The maximum number of characters allowed for a table name a result of zero means that there is no limit or the limit is not known
Max UserName Length	30	The maximum number of characters allowed for a user name. A result of zero means that there is no limit or the limit is not known
Supports Data Definition And Data Manipulation Transactions	1	Tells whether this database supports both data definition and data manipulation statements within a transaction
Supports Data Manipulation-Transactions Only	1	Retrieves whether this database supports only data manipulation statements within a transaction
Data Definition Causes Transaction Commit	1	Tells whether a data definition statement within a transaction forces the transaction to commit
Data Definition Ignored In Transactions	0	Tells whether this database ignores a data definition statement within a transaction
TYPE_FORWARD_ONLY Cursor support	1	Tells whether TYPE_FORWARD_ONLY Cursor is supported

TYPE_SCROLL_INSENSITIVE Cursor support	1	Tells wether TYPE_SCROLL_INSENSITIVE Cursor is supported
TYPE_SCROLL_SENSITIVE Cursor support	1	Tells wether TYPE_SCROLL_SENSITIVE Cursor is supported
TYPE_FORWARD_ONLY cursor supports CONCUR_READ_ONLY	1	Tells wether TYPE_FORWARD_ONLY cursor supports CONCUR_READ_ONLY
TYPE_FORWARD_ONLY cursor supports CONCUR_UPDATABLE	1	Tells wether TYPE_FORWARD_ONLY cursor supports CONCUR_UPDATABLE
TYPE_FORWARD_ONLY cursor supports CONCUR_UPDATABLE	1	Tells wether TYPE_FORWARD_ONLY cursor supports CONCUR_UPDATABLE
TYPE_SCROLL_INSENSITIVE cursor supports CONCUR_READ_ONLY	1	Tells wether TYPE_SCROLL_INSENSITIVE cursor supports CONCUR_READ_ONLY
TYPE_SCROLL_INSENSITIVE cursor supports CONCUR_UPDATABLE	1	Tells wether TYPE_SCROLL_INSENSITIVE cursor supports CONCUR_UPDATABLE
TYPE_SCROLL_INSENSITIVE cursor supports CONCUR_UPDATABLE	1	Tells wether TYPE_SCROLL_INSENSITIVE cursor supports CONCUR_UPDATABLE
TYPE_SCROLL_SENSITIVE cursor supports CONCUR_READ_ONLY	1	Tells wether TYPE_SCROLL_SENSITIVE cursor supports CONCUR_READ_ONLY
TYPE_SCROLL_SENSITIVE cursor supports CONCUR_UPDATABLE	1	Tells wether TYPE_SCROLL_SENSITIVE cursor supports CONCUR_UPDATABLE
TYPE_SCROLL_SENSITIVE cursor supports CONCUR_UPDATABLE	1	Tells wether TYPE_SCROLL_SENSITIVE cursor supports CONCUR_UPDATABLE
Own Updates Are Visible for TYPE_FORWARD_ONLY	0	Tells wether Own Updates Are Visible for TYPE_FORWARD_ONLY cursors
Own Updates Are Visible for TYPE_SCROLL_INSENSITIVE	1	Tells wether Own Updates Are Visible for TYPE_SCROLL_INSENSITIVE cursors
Own Updates Are Visible for TYPE_SCROLL_SENSITIVE	1	Tells wether Own Updates Are Visible for TYPE_SCROLL_SENSITIVE cursors

Own Deletes Are Visible for - TYPE_FORWARD_ONLY	0	Tells wether Own Deletes Are Visible for TYPE_FORWARD_ONLY cursors
Own Deletes Are Visible for TYPE_SCROLL_INSENSITIVE	1	Tells wether Own Deletes Are Visible for TYPE_SCROLL_INSENSITIVE cursors
Own Deletes Are Visible for TYPE_SCROLL_SENSITIVE	1	Tells wether Own Deletes Are Visible for TYPE_SCROLL_SENSITIVE cursors
Own Inserts Are Visible for - TYPE_FORWARD_ONLY	0	Tells wether Own Inserts Are Visible for TYPE_FORWARD_ONLY cursors
Own Inserts Are Visible for TYPE_SCROLL_INSENSITIVE	0	Tells wether Own Inserts Are Visible for TYPE_SCROLL_INSENSITIVE cursors
Own Inserts Are Visible for TYPE_SCROLL_SENSITIVE	0	Tells wether Own Inserts Are Visible for TYPE_SCROLL_SENSITIVE cursors
Others Updates Are Visible for TYPE_FORWARD_ONLY	0	Tells wether Others Updates Are Visible for TYPE_FORWARD_ONLY cursors
Others Updates Are Visible for TYPE_SCROLL_INSENSITIVE	0	Tells wether Others Updates Are Visible for TYPE_SCROLL_INSENSITIVE cursors
Others Updates Are Visible for TYPE_SCROLL_SENSITIVE	1	Tells wether Others Updates Are Visible for TYPE_SCROLL_SENSITIVE cursors
Others Deletes Are Visible for TYPE_FORWARD_ONLY	0	Tells wether Others Deletes Are Visible for TYPE_FORWARD_ONLY cursors
Others Deletes Are Visible for TYPE_SCROLL_INSENSITIVE	0	Tells wether Others Deletes Are Visible for TYPE_SCROLL_INSENSITIVE cursors
Others Deletes Are Visible for TYPE_SCROLL_SENSITIVE	0	Tells wether Others Deletes Are Visible for TYPE_SCROLL_SENSITIVE cursors
Others Inserts Are Visible for TYPE_FORWARD_ONLY	0	Tells wether Others Inserts Are Visible for TYPE_FORWARD_ONLY cursors
Others Inserts Are Visible for TYPE_SCROLL_INSENSITIVE	0	Tells wether Others Inserts Are Visible for TYPE_SCROLL_INSENSITIVE cursors

Others Inserts Are Visible for TYPE_SCROLL_SENSITIVE	0	Tells wether Others Inserts Are Visible for TYPE_SCROLL_SENSITIVE cursors
Updates Are Detected on TYPE_FORWARD_ONLY	0	Tells wether Updates Are Detected on TYPE_FORWARD_ONLY cursors
Updates Are Detected on TYPE_SCROLL_INSENSITIVE	0	Tells wether Updates Are Detected on TYPE_SCROLL_INSENSITIVE cursors
Updates Are Detected on TYPE_SCROLL_SENSITIVE	0	Tells wether Updates Are Detected on TYPE_SCROLL_SENSITIVE cursors
Deletes Are Detected on TYPE_FORWARD_ONLY	0	Tells wether Deletes Are Detected on TYPE_FORWARD_ONLY cursors
Deletes Are Detected on TYPE_SCROLL_INSENSITIVE	0	Tells wether Deletes Are Detected on TYPE_SCROLL_INSENSITIVE cursors
Deletes Are Detected on TYPE_SCROLL_SENSITIVE	0	Tells wether Deletes Are Detected on TYPE_SCROLL_SENSITIVE cursors
Inserts Are Detected on TYPE_FORWARD_ONLY	0	Tells wether Inserts Are Detected on TYPE_FORWARD_ONLY cursors
Inserts Are Detected on TYPE_SCROLL_INSENSITIVE	0	Tells wether Inserts Are Detected on TYPE_SCROLL_INSENSITIVE cursors
Inserts Are Detected on TYPE_SCROLL_SENSITIVE	0	Tells wether Inserts Are Detected on TYPE_SCROLL_SENSITIVE cursors
Supports Batch Updates	1	Tells wether this database supports batch updates
Supports Savepoints	1	Tells whether this database supports savepoints
Supports Named Parameters	1	Tells whether this database supports named parameters to callable statements
Supports Multiple Open Results	0	Tells wether it is possible to have multiple ResultSet objects returned from a CallableStatement object simultaneously
Supports Get Generated Keys	1	Tells wether auto-generated keys can be retrieved after a statement has been executed
Supports HOLD_CURSORS_OVER_COMMIT Result Set Holdability	1	Tells whether this database supports HOLD_CURSORS_OVER_COMMIT result set holdability
Supports CLOSE_CURSORS_AT_COMMIT Result Set Holdability	0	Tells whether this database supports CLOSE_CURSORS_AT_COMMIT result-set holdability

Default ResultSet holdability (HOLD_CURSORS_OVER_COMMIT)	1	HOLD_CURSORS_OVER_COMMIT
Locators Update Copy	1	Indicates whether updates made to a LOB are made on a copy or directly to the LOB
Supports Statement Pooling	1	Tells whether this database supports statement pooling

3.4 Database objects

3.4.1 Types(25)

3.4.1.1 INTERVALDS

Parameter	Value
precision	4
litteral_prefix	
litteral_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	INTERVALDS
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	-104
sql_datetime_sub	0
num_prec_radix	10

Table 3.4: INTERVALDS Type

3.4.1.2 INTERVALYM

Parameter	Value
precision	5
litteral_prefix	
litteral_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	INTERVALYM
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	-103
sql_datetime_sub	0
num_prec_radix	10

Table 3.5: INTERVALYM Type

3.4.1.3 TIMESTAMP WITH LOCAL TIME ZONE

Parameter	Value
precision	11
litteral_prefix	
litteral_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	TIMESTAMP WITH LOCAL TIME ZONE
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	-102
sql_datetime_sub	0
num_prec_radix	10

Table 3.6: TIMESTAMP WITH LOCAL TIME ZONE Type

3.4.1.4 TIMESTAMP WITH TIME ZONE

Parameter	Value
precision	13
literal_prefix	
literal_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	TIMESTAMP WITH TIME ZONE
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	-101
sql_datetime_sub	0
num_prec_radix	10

Table 3.7: TIMESTAMP WITH TIME ZONE Type

3.4.1.5 NUMBER

Parameter	Value
precision	1
litteral_prefix	
litteral_suffix	
create_params	(1)
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	true
local_type_name	NUMBER
minimum_scale	-84
maximum_scale	127
sql_data_type	0
data_type	-7
sql_datetime_sub	0
num_prec_radix	10

Table 3.8: NUMBER Type

3.4.1.6 NUMBER

Parameter	Value
precision	3
litteral_prefix	
litteral_suffix	
create_params	(3)
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	true
local_type_name	NUMBER
minimum_scale	-84
maximum_scale	127
sql_data_type	0
data_type	-6
sql_datetime_sub	0
num_prec_radix	10

Table 3.9: NUMBER Type

3.4.1.7 NUMBER

Parameter	Value
precision	38
litteral_prefix	
litteral_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	true
local_type_name	NUMBER
minimum_scale	-84
maximum_scale	127
sql_data_type	0
data_type	-5
sql_datetime_sub	0
num_prec_radix	10

Table 3.10: NUMBER Type

3.4.1.8 LONG RAW

Parameter	Value
precision	2147483647
literal_prefix	'
literal_suffix	'
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	No support (0)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	LONG RAW
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	-4
sql_datetime_sub	0
num_prec_radix	10

Table 3.11: LONG RAW Type

3.4.1.9 RAW

Parameter	Value
precision	2000
litteral_prefix	'
litteral_suffix	'
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	RAW
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	-3
sql_datetime_sub	0
num_prec_radix	10

Table 3.12: RAW Type

3.4.1.10 LONG

Parameter	Value
precision	2147483647
literal_prefix	'
literal_suffix	'
create_params	null
nullable	allows NULL values (1)
case_sensitive	true
searchable	No support (0)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	LONG
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	-1
sql_datetime_sub	0
num_prec_radix	10

Table 3.13: LONG Type

3.4.1.11 CHAR

Parameter	Value
precision	2000
litteral_prefix	'
litteral_suffix	'
create_params	null
nullable	allows NULL values (1)
case_sensitive	true
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	CHAR
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	1
sql_datetime_sub	0
num_prec_radix	10

Table 3.14: CHAR Type

3.4.1.12 NUMBER

Parameter	Value
precision	38
litteral_prefix	
litteral_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	true
local_type_name	NUMBER
minimum_scale	-84
maximum_scale	127
sql_data_type	0
data_type	2
sql_datetime_sub	0
num_prec_radix	10

Table 3.15: NUMBER Type

3.4.1.13 NUMBER

Parameter	Value
precision	10
litteral_prefix	
litteral_suffix	
create_params	(10)
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	true
local_type_name	NUMBER
minimum_scale	-84
maximum_scale	127
sql_data_type	0
data_type	4
sql_datetime_sub	0
num_prec_radix	10

Table 3.16: NUMBER Type

3.4.1.14 NUMBER

Parameter	Value
precision	5
litteral_prefix	
litteral_suffix	
create_params	(5)
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	true
local_type_name	NUMBER
minimum_scale	-84
maximum_scale	127
sql_data_type	0
data_type	5
sql_datetime_sub	0
num_prec_radix	10

Table 3.17: NUMBER Type

3.4.1.15 FLOAT

Parameter	Value
precision	63
litteral_prefix	
litteral_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	true
local_type_name	FLOAT
minimum_scale	-84
maximum_scale	127
sql_data_type	0
data_type	6
sql_datetime_sub	0
num_prec_radix	10

Table 3.18: FLOAT Type

3.4.1.16 REAL

Parameter	Value
precision	63
litteral_prefix	
litteral_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	true
local_type_name	REAL
minimum_scale	-84
maximum_scale	127
sql_data_type	0
data_type	7
sql_datetime_sub	0
num_prec_radix	10

Table 3.19: REAL Type

3.4.1.17 VARCHAR2

Parameter	Value
precision	4000
litteral_prefix	'
litteral_suffix	'
create_params	null
nullable	allows NULL values (1)
case_sensitive	true
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	VARCHAR2
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	12
sql_datetime_sub	0
num_prec_radix	10

Table 3.20: VARCHAR2 Type

3.4.1.18 DATE

Parameter	Value
precision	7
litteral_prefix	
litteral_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	DATE
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	91
sql_datetime_sub	0
num_prec_radix	10

Table 3.21: DATE Type

3.4.1.19 DATE

Parameter	Value
precision	7
litteral_prefix	
litteral_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	DATE
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	92
sql_datetime_sub	0
num_prec_radix	10

Table 3.22: DATE Type

3.4.1.20 TIMESTAMP

Parameter	Value
precision	11
litteral_prefix	
litteral_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	Supported for all WHERE .. (3)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	TIMESTAMP
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	93
sql_datetime_sub	0
num_prec_radix	10

Table 3.23: TIMESTAMP Type

3.4.1.21 STRUCT

Parameter	Value
precision	0
literal_prefix	'
literal_suffix	'
create_params	null
nullable	allows NULL values (1)
case_sensitive	true
searchable	No support (0)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	STRUCT
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	2002
sql_datetime_sub	0
num_prec_radix	10

Table 3.24: STRUCT Type

3.4.1.22 ARRAY

Parameter	Value
precision	0
literal_prefix	'
literal_suffix	'
create_params	null
nullable	allows NULL values (1)
case_sensitive	true
searchable	No support (0)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	ARRAY
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	2003
sql_datetime_sub	0
num_prec_radix	10

Table 3.25: ARRAY Type

3.4.1.23 BLOB

Parameter	Value
precision	-1
literal_prefix	
literal_suffix	
create_params	null
nullable	allows NULL values (1)
case_sensitive	false
searchable	No support (0)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	BLOB
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	2004
sql_datetime_sub	0
num_prec_radix	10

Table 3.26: BLOB Type

3.4.1.24 CLOB

Parameter	Value
precision	-1
literal_prefix	'
literal_suffix	'
create_params	null
nullable	allows NULL values (1)
case_sensitive	true
searchable	No support (0)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	CLOB
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	2005
sql_datetime_sub	0
num_prec_radix	10

Table 3.27: CLOB Type

3.4.1.25 REF

Parameter	Value
precision	0
literal_prefix	'
literal_suffix	'
create_params	null
nullable	allows NULL values (1)
case_sensitive	true
searchable	No support (0)
unsigned_attribute	false
fixed_prec_scale	false
local_type_name	REF
minimum_scale	0
maximum_scale	0
sql_data_type	0
data_type	2006
sql_datetime_sub	0
num_prec_radix	10

Table 3.28: REF Type

3.4.2 SQL Keywords(34)

Find below Sql Weywords :

1. ACCESS
2. ADD
3. ALTER
4. AUDIT
5. CLUSTER
6. COLUMN
7. COMMENT
8. COMPRESS
9. CONNECT
10. DATE
11. DROP
12. EXCLUSIVE
13. FILE
14. IDENTIFIED
15. IMMEDIATE
16. INCREMENT
17. INDEX
18. INITIAL
19. INTERSECT
20. LEVEL
21. LOCK
22. LONG
23. MAXEXTENTS
24. MINUS

25. MODE
26. NOAUDIT
27. NOCOMPRESS
28. NOWAIT
29. NUMBER
30. OFFLINE
31. ONLINE
32. PCTFREE
33. PRIOR
34. all_PL_SQL_reserved_ words

3.4.3 Functions

3.4.3.1 Time/DateFunctions (5)

Find below Time/Date functions as they are provided by the driver :

1. HOUR
2. MINUTE
3. SECOND
4. MONTH
5. YEAR

3.4.3.2 System Functions (1)

1. USER

3.4.3.3 String Functions(11)

1. ASCII
2. CHAR
3. CONCAT
4. LCASE
5. LENGTH
6. LTRIM
7. REPLACE
8. RTRIM
9. SOUNDEX
10. SUBSTRING
11. UCASE

3.4.3.4 Numeric Functions (20)

1. ABS
2. ACOS
3. ASIN
4. ATAN
5. ATAN2
6. CEILING
7. COS
8. EXP
9. FLOOR
10. LOG
11. LOG10
12. MOD

13. PI
14. POWER
15. ROUND
16. SIGN
17. SIN
18. SQRT
19. TAN
20. TRUNCATE

Chapter 4

User Defined DB Procedures And Functions (0)

Chapter 5

Tables and Views (4)

5.1 BONUS (TABLE)

Find below BONUS summarized properties :

Table Catalog	Unable to retrieve from driver
Schema Owner	SCOTT
Full table name	nullSCOTTBONUS
Table type	TABLE
Remarks	
Type Category	Unable to retrieve from driver
Schema Type	SCOTT
Table Type Name	Unable to retrieve from driver
Self referencing col. name	Unable to retrieve from driver
Ref. generation	Unable to retrieve from driver

Table 5.1: nullSCOTTBONUS TABLE properties

5.1.1 Row Report

Parameter	Value
Row Size	63
RowBufferLength	0
RowCharOctetLength	63

Table 5.2: nullSCOTTBONUS TABLE rows report

5.1.2 Columns (4)

5.1.2.1 ENAME

Table 5.3: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	BONUS
Col. Data Type	12
Col. Size	10
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	12
Type Name	VARCHAR2 (see 3.4.1.17, page 48)
Col. Datetime sub.	0
Col. Char Octet Length	10
Position	1
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.1.2.2 JOB

Table 5.4: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	BONUS
Col. Data Type	12
Col. Size	9
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	12
Type Name	VARCHAR2 (see 3.4.1.17, page 48)
Col. Datetime sub.	0
Col. Char Octet Length	9
Position	2
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.1.2.3 SAL

Table 5.5: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	BONUS
Col. Data Type	3
Col. Size	22
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	3
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.1.2.4 COMM

Table 5.6: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	BONUS
Col. Data Type	3
Col. Size	22
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	4
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.1.3 Privileges

Find below summarized privileges :

Table 5.7:

Privilege	Grantor	Grantee	Is Grantable
-----------	---------	---------	--------------

5.2 DEPT (TABLE)

Find below DEPT summarized properties :

Table Catalog	Unable to retrieve from driver
Schema Owner	SCOTT
Full table name	nullSCOTTDEPT
Table type	TABLE
Remarks	
Type Category	Unable to retrieve from driver
Schema Type	SCOTT
Table Type Name	Unable to retrieve from driver
Self referencing col. name	Unable to retrieve from driver
Ref. generation	Unable to retrieve from driver

Table 5.8: nullSCOTTDEPT TABLE properties

5.2.1 Row Report

Parameter	Value
Row Size	29
RowBufferLength	0
RowCharOctetLength	49

Table 5.9: nullSCOTTDEPT TABLE rows report

5.2.2 Columns (3)

5.2.2.1 DEPTNO

Table 5.10: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	DEPT
Col. Data Type	3
Col. Size	2
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	0
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	1
Is Nullable	NO
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.2.2.2 DNAME

Table 5.11: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	DEPT
Col. Data Type	12
Col. Size	14
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	12
Type Name	VARCHAR2 (see 3.4.1.17, page 48)
Col. Datetime sub.	0
Col. Char Octet Length	14
Position	2
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.2.2.3 LOC

Table 5.12: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	DEPT
Col. Data Type	12
Col. Size	13
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	12
Type Name	VARCHAR2 (see 3.4.1.17, page 48)
Col. Datetime sub.	0
Col. Char Octet Length	13
Position	3
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.2.3 Primary Key : PK_DEPT (1)

Find below summarized details about primary key :

Position	Col. Name
1	DEPTNO

Table 5.13: DEPT Primary Key

5.2.4 Indexes (1)

5.2.4.1 PK_DEPT (1)

Find summarized details below :

Position	Col. Name	<u>A</u> sc/ <u>D</u> esc	Cardinality	Filter Con- dition	Pages	Type	N
1	DEPTNO	null	4	null	1	Clustered (type 1)	fa

5.2.5 Privileges

Find below summarized privileges :

Table 5.14:

Privilege	Grantor	Grantee	Is Grantable
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5.3 EMP (TABLE)

Find below EMP summarized properties :

Table Catalog	Unable to retrieve from driver
Schema Owner	SCOTT
Full table name	nullSCOTTEMP
Table type	TABLE
Remarks	
Type Category	Unable to retrieve from driver
Schema Type	SCOTT
Table Type Name	Unable to retrieve from driver
Self referencing col. name	Unable to retrieve from driver
Ref. generation	Unable to retrieve from driver

Table 5.15: nullSCOTTEMP TABLE properties

5.3.1 Row Report

Parameter	Value
Row Size	50
RowBufferLength	0
RowCharOctetLength	136

Table 5.16: nullSCOTTEMP TABLE rows report

5.3.2 Columns (8)

5.3.2.1 EMPNO

Table 5.17: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	EMP
Col. Data Type	3
Col. Size	4
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	0
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	1
Is Nullable	NO
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.3.2.2 ENAME

Table 5.18: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	EMP
Col. Data Type	12
Col. Size	10
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	12
Type Name	VARCHAR2 (see 3.4.1.17, page 48)
Col. Datetime sub.	0
Col. Char Octet Length	10
Position	2
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.3.2.3 JOB

Table 5.19: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	EMP
Col. Data Type	12
Col. Size	9
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	12
Type Name	VARCHAR2 (see 3.4.1.17, page 48)
Col. Datetime sub.	0
Col. Char Octet Length	9
Position	3
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.3.2.4 MGR

Table 5.20: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	EMP
Col. Data Type	3
Col. Size	4
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	4
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.3.2.5 HIREDATE

Table 5.21: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	EMP
Col. Data Type	91
Col. Size	7
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	91
Type Name	DATE (see 3.4.1.19, page 50)
Col. Datetime sub.	0
Col. Char Octet Length	7
Position	5
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.3.2.6 SAL

Table 5.22: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	EMP
Col. Data Type	3
Col. Size	7
Col. Buffer Length	0
Col. Decimal Digits	2
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	6
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.3.2.7 COMM

Table 5.23: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	EMP
Col. Data Type	3
Col. Size	7
Col. Buffer Length	0
Col. Decimal Digits	2
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	7
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.3.2.8 DEPTNO

Table 5.24: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	EMP
Col. Data Type	3
Col. Size	2
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	8
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.3.3 Primary Key : PK_EMP (1)

Find below summarized details about primary key :

Position	Col. Name
1	EMPNO

Table 5.25: EMP Primary Key

5.3.4 Indexes (1)

5.3.4.1 PK_EMP (1)

Find summarized details below :

Position	Col. Name	<u>A</u> sc/ <u>D</u> esc	Cardinality	Filter Con- dition	Pages	Type	N
1	EMPNO	null	14	null	1	Clustered (type 1)	fa

5.3.5 Privileges

Find below summarized privileges :

Table 5.26:

Privilege	Grantor	Grantee	Is Grantable
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5.4 SALGRADE (TABLE)

Find below SALGRADE summarized properties :

Table Catalog	Unable to retrieve from driver
Schema Owner	SCOTT
Full table name	nullSCOTT\$SALGRADE
Table type	TABLE
Remarks	
Type Category	Unable to retrieve from driver
Schema Type	SCOTT
Table Type Name	Unable to retrieve from driver
Self referencing col. name	Unable to retrieve from driver
Ref. generation	Unable to retrieve from driver

Table 5.27: nullSCOTT\$SALGRADE TABLE properties

5.4.1 Row Report

Parameter	Value
Row Size	66
RowBufferLength	0
RowCharOctetLength	66

Table 5.28: nullSCOTT\$SALGRADE TABLE rows report

5.4.2 Columns (3)

5.4.2.1 GRADE

Table 5.29: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	SALGRADE
Col. Data Type	3
Col. Size	22
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	1
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.4.2.2 LOSAL

Table 5.30: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	SALGRADE
Col. Data Type	3
Col. Size	22
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	2
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.4.2.3 HISAL

Table 5.31: Connection Properties

Desc.	Value
Table cat.	
Table schema	SCOTT
Table Name	SALGRADE
Col. Data Type	3
Col. Size	22
Col. Buffer Length	0
Col. Decimal Digits	0
Col. Num. Prec. Radix	10
Col Nullable	1
Remarks	
Col. Def	
Col. Sql Data Type	0
Data Type Id	3
Type Name	Driver unable to retrieve type from it's id (3) check yourself in 3.4.1, page 32)
Col. Datetime sub.	0
Col. Char Octet Length	22
Position	3
Is Nullable	YES
Col. Scope Catalog	Unable to retrieve from driver
Col. Scope Schema	Unable to retrieve from driver
Col. Scope Table	Unable to retrieve from driver
Col. Source Datatype	0

5.4.3 Privileges

Find below summarized privileges :

Table 5.32:

Privilege	Grantor	Grantee	Is Grantable
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