

Uso básico del SQLTXPLAIN

Documento generado por

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Para el sitio



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1. Introducción

SQLTXPLAIN también conocido como SQLT es una herramienta que entrega de forma gratuita el Oracle Support Center of Expertise.

Esta herramienta necesita una sentencia SQL y provee una cantidad increíble de información y análisis, todo para encontrar el cuello de botella , ya sea en el medio ambiente donde se ejecute, mediante análisis de estadísticas y comportamiento de CBO , como el análisis propio de la sentencia SQL.

Para poder utilizar el SQLT se debe instalar y después simplemente llamar al método a utilizar, hay 4 métodos disponibles los cuales son explicados en detalle, su forma de ejecución y un resumen final donde se muestran los pros y contra de cada uno de ellos.

La nota donde se puede descargar y leer sobre este utilitario es la siguiente

SQLT (SQLTXPLAIN) - Tool that helps to diagnose SQL statements performing poorly [ID 215187.1]

2. Instalación de SQLTXPLAIN

Acá se muestra como instalar este utilitario

```
$ sqlplus /nolog

SQL*Plus: Release 10.2.0.4.0 - Production on Tue Jul 12 11:43:13 2011

Copyright (c) 1982, 2007, Oracle. All Rights Reserved.

SQL> conn / as sysdba
Connected.
```

Primero se debe borrar cualquier vestigio de instalación anterior

```
SQL> start sqdrop.sql
... uninstalling SQLT, please wait
TADOBJ completed.

PL/SQL procedure successfully completed.
```

Vease logs en Anexo 1

Y se procede con la instalación del SQLT

```
SQDROP completed.
SQL>
SQL>
SQL> start sqcreate → Script para instalar
TADOBJ completed.

PL/SQL procedure successfully completed.
```

Se debe tener en cuenta que el script va a solicitar los siguientes datos :

- Tablespace para dejar la metadata producida por el SQLT
- Tablespace temporal para llevar a cabo las actividades
- Password para el esquema SQLTXPLAIN

Vease logs en Anexo 2

3. Métodos existentes en el SQLTXPLAIN

SQLTXPLAIN posee 4 métodos principales, los cuales son XTRACT , XECUTE , XTRXEC y XPLAIN, la forma de usar de cada uno

3.1. Método XTRACT

Si se conoce el SqliD o el Hash de la sentencia SQL , hay mucha información que se captura como parte de las estadísticas, cuando el parámetro STATISTICS_LEVEL está setado como ALL, pero como a veces es inviable dada la cantidad de información que se puede generar, es que se puede setear el hint /*+ GATHER_PLAN_STATISTICS */ y para versiones 11g se setea el hint /*+ GATHER_PLAN_STATISTICS MONITOR */

UN ejemplo de uso del XTRACT :

```
-- Obtenemos una sentencia cualquiera desde memoria y obtenemos su SQL_id

SQL> set long 50000
SQL> set pause on
SQL> r
  1* select sql_id , sql_text from v$sql

SQL_ID
-----
SQL_TEXT
-----
93s9k7wvfs05m
select snap_interval, retention,most_recent_snap_time, most_recent_snap_id, stat
us_flag, most_recent_purge_time, most_recent_split_id, most_recent_split_time, m
rct_snap_time_num, mrct_purge_time_num, snapint_num, retention_num, swrf_version
, registration_status, mrct_baseline_id, topnsql from wrm$wr_control where dbid
= :dbid
```

Se realiza la ejecución del XTRACT mediante la siguiente línea de comando

```
SQL> start sqltextract.sql 93s9k7wvfs05m
```

Lo cual lleva a cabo las siguientes actividades

```
PL/SQL procedure successfully completed.
```

```
Parameter 1:
SQL_ID or HASH_VALUE of the SQL to be extracted (required)
```

```
Value passed to sqltextract:
~~~~~
SQL_ID_OR_HASH_VALUE: "93s9k7wvfs05m"
```

Vease logs en Anexo 3

Esta ejecución crea un archivo llamado `sqlt_<número>.zip` , ubicado en la ruta de ejecución del script `sqlxtract.sql`

Se debe descomprimir y ejecutar el archivo `sqlt_<número>_main.html`

Una vez ejecutado , nos aparece un completo informe de la sentencia SQL a la cual se le realiza el análisis y además, nos presenta un gran resumen en cuanto a performance de nuestra base de datos, la foto principal es el encabezado de nuestro análisis

215187.1 SQLT XTRACT 11.4.3.2 Report: `sqlt_s25887_main.html`

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¿En dónde debemos colocar foco?

Pues en las siguientes áreas de nuestro reporte

Observations :

Una vez seleccionado, nos muestra una posibilidad de análisis según el conocimiento empírico del creador de la herramienta

Observations

List of concerns identified by the health-check module. Please review. Some may require further attention.

#	Type	Name	Observation	More
1	CBO PARAMETER	NON-DEFAULT	There is one CBO initialization parameter with a non-default value.	<input type="checkbox"/> Parameter value was specified in the parameter file. Review CBO Environment .
2	PARAMETER	DB_FILE_MULTIBLOCK_READ_COUNT	MBRC Parameter is set.	<input type="checkbox"/> The default value of this parameter is a value that corresponds to the maximum I/O size that can be performed efficiently. This value is platform-dependent and for most platforms. Because the parameter is expressed in blocks, it will be set to a value that is equal to the maximum I/O size that can be performed efficiently by the standard block size.
3	DBMS_STATS	DBA_SCHEDULER_JOBS	Automatic gathering of CBO statistics is enabled.	<input type="checkbox"/> Be aware that small sample sizes could produce poor quality histograms, which combined with bind sensitive predicates could render suboptimal plans. See Note 465787.1.
4	PLAN	PLAN_HASH_VALUE	One plan was found for this SQL.	<input type="checkbox"/> Review Execution Plans .
5	PLAN CONTROL	PLAN_CONTROL	None of the plans found was created using one of these: Stored Outline, SQL Profile, SQL Patch or SQL Plan Baseline.	
6	DBMS_STATS	SYSTEM STATISTICS	Workload CBO System Statistics are not gathered. CBO is using default values.	<input type="checkbox"/> Consider gathering workload system statistics using DBMS_STATS.GATHER_SYSTEM_STATS. See Note 465787.1.

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STA Report (Viene del Sql Tuning Advisor) :

Acá nos muestra que es lo que nos indica el Advisor de SQL tras el análisis de nuestra sentencia

```

/*****
 * Be aware that using SQL Tuning Advisor (STA) DBMS_SQLTUNE *
 * requires a license for the Oracle Tuning Pack. *
 * If you need to disable SQLT access to this functionality *
 * execute the following command connected as sqlt_xplain: *
 * SQL> EXEC sqlt$_.set_param('sql_tuning_advisor', 'N'); *
 *****/

```

GENERAL INFORMATION SECTION

```

-----
Tuning Task Name      : sqlt_s25887_mem
Tuning Task Owner    : SYS
Tuning Task ID       : 18746
Scope                 : COMPREHENSIVE
Time Limit(seconds) : 1800
Completion Status    : COMPLETED
Started at           : 07/12/2011 12:21:34
Completed at        : 07/12/2011 12:21:34

```

```

-----
Schema Name: SYS
SQL ID      : 93s9k7wvfs05m
SQL Text    : select snap_interval, retention, most_recent_snap_time,
             most_recent_snap_id, status_flag, most_recent_purge_time,
             most_recent_split_id, most_recent_split_time,
             mrct_snap_time_num, mrct_purge_time_num, snapint_num,
             retention_num, swrf_version, registration_status,
             mrct_baseline_id, topnsql from wrm$_wr_control where dbid = :dbid

```

There are no recommendations to improve the statement.

EXPLAIN PLANS SECTION

1- Original

Como pueden ver, es muchísima información, ahora hay que saber interpretarla

3.2. Método XECUTE

Este método toma mas tiempo , pues entrega un informe mucho más detallado para la sentencia SQL que estamos analizando , como regla general , si la sentencia se demora más de una hora en su ejecución normal , no debiese utilizarse este método, dado el tiempo que puede llevar el analizarla de forma completa

Para poder ejecutar esta opción, se debe crear un archivo de texto que contenga el scripts , si se incluyen variables bind (:variables) se debe declarar la variable dentro del scripts y asignarle un valor, un ejemplo de como debiese ser

```
VAR b1 NUMBER;
EXEC :b1 := 10;

SELECT /*+ gather_plan_statistics monitor */
       sl.channel_id,
       /* ejecucion # 1 */
       SUM(p.prod_list_price) price
FROM   products p,
       sales sl,
       sales s2
WHERE  sl.cust_id = :b1
       AND sl.prod_id = p.prod_id
       AND sl.time_id = s2.time_id
GROUP BY
       sl.channel_id;
```

Como se puede apreciar se le asigna el valor a la variable b1 y después se llama a la sentencia SQL con esa variable

Además se coloca el hint `/*+ gather_plan_statistics monitor */` para poder capturar la mayor cantidad de estadísticas para la sentencia SQL

Se recomienda que siempre la sentencia SQL que se ejecute force un Hard Parse, o sea, sea siempre distinta, para ello se le puede añadir un pequeño comentario a la sentencia SQL y que se incremente a media que se ejecuta por ejemplo `/* ejecucion # 1 */ , /* ejecucion # 2 */`

Ejecutaremos la misma sentencia que en el punto anterior

Para ello nuestro scripts será de la siguiente forma

```
VAR dbid NUMBER;

EXEC :dbid := 925107982;

select snap_interval,
       retention,
       most_recent_snap_time,
       most_recent_snap_id,
       status_flag,
       most_recent_purge_time,
       most_recent_split_id,
       most_recent_split_time,
       mrct_snap_time_num,
       mrct_purge_time_num,
       snapint_num,
```



```
retention_num,  
swrf_version ,  
registration_status,  
mrct_baseline_id,  
topnsql  
from wrm$_wr_control  
where dbid = :dbid;
```

Y ejecutamos el método XECUTE de la siguiente forma

```
$ sqlplus /nolog  
  
SQL*Plus: Release 10.2.0.4.0 - Production on Wed Jul 13 12:25:35 2011  
  
Copyright (c) 1982, 2007, Oracle. All Rights Reserved.  
  
SQL> conn / as sysdba  
Connected.  
SQL> start sqltxecute.sql /u02/orabscs/sqlt/sqlt/input/script1.sql  
  
PL/SQL procedure successfully completed.  
  
Parameter 1:  
SCRIPT name which contains SQL and its binds (required)  
  
Value passed to sqltxecute:  
~~~~~  
SCRIPT_WITH_SQL: "/u02/orabscs/sqlt/sqlt/input/script1.sql"  
  
... please wait ...  
  
Veasé logs en Anexo 4
```

Esta ejecución crea un archivo llamado sqlt_<número>.zip , ubicado en la ruta de ejecución del script sqlxtract.sql

Se debe descomprimir y ejecutar el archivo sqlt_<número>_main.html

Una vez ejecutado , nos aparece un completo informe de la sentencia SQL a la cual se le realiza el análisis y además, nos presenta un gran resumen en cuanto a performance de nuestra base de datos, la foto principal es el encabezado de nuestro análisis

215187.1 SQLT XECUTE 11.4.3.2 Report: sqlt_s25907_main.html

Global	Plans	Tables
<ul style="list-style-type: none"> • Observations • SQL Text • SQL Identification • Environment • CBO Environment • Fix Control • CBO System Statistics • DBMS_STATS Setup • Initialization Parameters • NLS Parameters • Tool Configuration Parameters 	<ul style="list-style-type: none"> • Summary • Performance Statistics • Performance History • Execution Plans <p>Plan Control</p> <ul style="list-style-type: none"> • Stored Outlines • SQL Profiles • SQL Plan Baselines <p>SQL Execution</p> <ul style="list-style-type: none"> • Active Session History • AWR Active Session History • SQL Statistics • SQL Detail ACTIVE Report • Monitor Statistics • Monitor ACTIVE Report • Monitor HTML Report • Monitor TEXT Report • Segment Statistics • Session Statistics • Session Events • Parallel Processing 	<ul style="list-style-type: none"> • Tables • Statistics • Statistics Versions • Modifications • Properties • Physical Properties • Constraints • Columns • Indexed Columns • Histograms • Partitions • Indexes <p>Objects</p> <ul style="list-style-type: none"> • Objects • Dependencies • Fixed Objects • Fixed Object Columns • Nested Tables • Policies • Audit Policies • Tablespaces • Metadata
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Y básicamente debemos analizar cuidadosamente lo que indica el hipervínculo "Observations" y "STA Reports"

3.3. Método XTRXEC

Este método se caracteriza por ejecutar los 2 métodos anteriores de forma secuencial , o sea, primero ejecuta el XTRACT mediante el paso de un SQLid o el Hash de la sentencia sql y después de eso , crea un archivo de texto , el cual es pasado al siguiente método, el XECUTE

Si hay un error en la ejecución del segundo paso, sólo se lleva a cabo el primero .

La gracia principal de este método es cuando hay variables bind algo complejas en su tipo, entonces, nosotros sólo pasamos como parámetro el SQL id de nuestra sentencia o el Hash si lo tuviésemos.

3.4. Método XPLAIN

Este método del SQLT sólo debiese ser utilizado si ninguno de los anteriores es aplicable, dado que tiene una debilidad muy grande con respecto a las variables bind, las cuales no puede manejar, por ende, todas las variables de este tipo deben ser cambiadas por literales

Para ejecutar el XPLAIN , se debe cargar la sentencia SQL en un archivo y ejecutarlo de la siguiente forma

```
SQL> conn / as sysdba
Connected.
SQL> start sqltxplain.sql /u02/orabscs/sqlt/sqlt/input/script1.sql

PL/SQL procedure successfully completed.
```

```
Parameter 1:
Name of file that contains SQL to be explained (required)
```

```
Value passed to sqltxplain:
~~~~~
FILE_WITH_ONE_SQL: "/u02/orabscs/sqlt/sqlt/input/script1.sql"
```

Vease logs Anexo 5

El formato de salida es muy similar a los anteriores, sólo que acá no se cuenta con la parte de STA Report

215187.1 SQLT XPLAIN 11.4.3.2 Report: sqlt_s25909_main.html

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4. Resumen general

4.1. Requisitos de Instalación

Oracle 10gr2 hacía arriba

4.2. Pasos para instalar

Bajar el archivo sqlt.zip desde la nota 215187.1
Hacer unzip del archivo (crea sólo la carpeta sqlt)
Ejecutar la instalación del paquete mediante

```
SQL> sqlt/install/sqcreate.sql
```

4.3. Resumen de métodos (Pros y Contras)

4.3.1. XTRACT

- Se requiere el SQL_ID o el hash de la sentencia SQL
- La sentencia sql debe estar en memoria o debe estar en el AWR
- Se ejecuta de la siguiente forma

```
SQL> sqlt/run/sqltextract a67asdyuasduyas --> Este es el SQLID de la sentencia SQL
```

Pros

- La sentencia SQL no es ejecutada
- Se obtienen todos los planes de ejecución desde memoria o desde el AWR
- Esta apto para soportar análisis de RAC

Contras

- Un problema es que el Trace 10053 que se ejecuta entremedio, puede no ser muy preciso si la sentencia SQL posee variables bind

4.3.2. XECUTE

- La sentencia sql debe estar dentro de un archivo (script sql)
- Las variables bind se deben declarar e inicializar dentro del mismo archivo
- Se debe hacer siempre un hard parse de la sentencia, por ello se recomienda colocar un comentario que se vaya modificando a medida que se ejecuta esta sentencia SQL
- El script debe finalizar con un ;
- Se ejecuta de la siguiente forma

```
SQL> sqlt/run/sqltxecute script1.sql
```

Pros

- Mezcla los trace event 10046 y 10053, y este último evento es preciso dado que se entrega el valor de la variable bind
- Para el evento 10046 el mismo método llama al tkprof

Contras

- La sentencia SQL es ejecutada, por ende si es lenta, en este método será más lenta aún sumando a la ejecución de la sentencia su análisis

4.3.3. XTRXEC

- Se requiere el SQL_ID o el hash de la sentencia SQL
- La sentencia sql debe estar en memoria o debe estar en el AWR
- Se ejecuta de la siguiente forma

```
SQL> sqlt/run/sqltxtrexc a67asdyuasduyas --> Este es el SQLID de la sentencia SQL
```

- Se debe tener en cuenta que este método del SQLT ejecuta el XTRACT y el XECUTE , por ende se tienen que analizar todos los pros y contras de las anteriores ejecuciones

4.3.4. XPLAIN

- La sentencia sql debe estar dentro de un archivo (script sql)
- Se ejecuta de la siguiente forma

```
SQL> sqlt/run/sqltxplain script1.sql
```

- Además se debe tener en cuenta cambiar la variable bind por su valor correcto (o aproximado)

Pros

- Es muy sencillo de utilizar
- La sentencia SQL no es ejecutada, por ende los tiempos de respuesta para la finalización del análisis también son mejores

Contras

- Se debe tener en cuenta y poner especial cuidado en la conversión implícita de los valores de las variables bind cuando sean ingresados
- Este método además no es muy preciso, pues genera nuevos planes de ejecución para la sentencia SQL, siempre y cuando hayan variables bind
- Este método genera mucha menos información que sus antecesores

5. Anexos

5.1. Anexo 1 : Logs de borrado de SQLT

SQDOLD completed. Ignore errors from this script

PL/SQL procedure successfully completed.

SQDOBJ completed. Ignore errors from this script

PL/SQL procedure successfully completed.

```
SQL>
SQL> DECLARE
  2   my_count INTEGER;
  3   BEGIN
  4     SELECT COUNT(*)
  5       INTO my_count
  6       FROM dba_users
  7       WHERE username = 'TRCANLZR';
  8     IF my_count = 0 THEN
  9       EXECUTE IMMEDIATE 'DROP PROCEDURE tasqdirset';
 10
 11     FOR i IN (SELECT directory_name
 12               FROM dba_directories
 13               WHERE directory_name IN ('SQLT$UDUMP', 'SQLT$BDUMP', 'SQLT$STAGE',
 14   'TRCA$INPUT1', 'TRCA$INPUT2', 'TRCA$STAGE'))
 15       LOOP
 16         BEGIN
 17           EXECUTE IMMEDIATE 'DROP DIRECTORY '||i.directory_name;
 18           DBMS_OUTPUT.PUT_LINE('Dropped directory '||i.directory_name||'.');
 19         EXCEPTION
 20           WHEN OTHERS THEN
 21             DBMS_OUTPUT.PUT_LINE('Cannot drop directory '||i.directory_name||'. '||
 22   SQLERRM);
 23         END;
 24       END LOOP;
 25     END IF;
 26   END;
 27 /
```

```
Dropped directory TRCA$INPUT2.
Dropped directory TRCA$INPUT1.
Dropped directory SQLT$BDUMP.
Dropped directory SQLT$UDUMP.
Dropped directory TRCA$STAGE.
Dropped directory SQLT$STAGE.
```

PL/SQL procedure successfully completed.

```
SQL>
SQL> DROP ROLE sqlt_user_role;
```

Role dropped.

```
SQL>
SQL> DROP USER sqltxplain CASCADE;
```

User dropped.

```
SQL>  
SQL> SET ECHO OFF;
```

```
SQDUSR completed.
```

5.2. Anexo 3 : Logs de instalación de SQLT

```
SQDOLD completed. Ignore errors from this script
```

```
Specify optional Connect Identifier (as per Oracle Net)  
Include "@" symbol, ie. @PROD  
If not applicable, enter nothing and hit the "Enter" key
```

```
Optional Connect Identifier (ie: @PROD): → Si no se ingresa nada asume la base según el  
ORACLE_SID
```

```
PL/SQL procedure successfully completed.
```

```
Define SQLTXPLAIN password (hidden and case sensitive).
```

```
Password for user SQLTXPLAIN:
```

```
Re-enter password: → Se debe ingresar la password para el usuario SQLTXPLAIN
```

```
no rows selected
```

```
... please wait
```

TABLESPACE	FREE_SPACE_MB
DATAUDR_01_11	3824
DATAUDR_02_11	5234
DATA	7860
DATAUDR2010	9826

```
Tablespace name is case sensitive.
```

```
Default tablespace [UNKNOWN]: DATA → Ingreso del Tablespaces para la metadata
```

```
DEFAULT_TABLESPACE  
-----  
DATA
```

```
PL/SQL procedure successfully completed.
```

```
... please wait
```

```
TEMPORARY_TABLESPACE  
-----  
TS_TEMP
```

```
Tablespace name is case sensitive.
```

```
Temporary tablespace [UNKNOWN]: → Ingreso del Tablespaces temporal
```

```
TEMPORARY_TABLESPACE  
-----  
TS_TEMP
```


PL/SQL procedure successfully completed.

The main application user of SQLT is the schema owner that issued the SQL to be analyzed. For example, on an EBS application you would enter APPS as the main application user. You will not be asked to enter its password. To add more SQLT users after this installation is complete simply grant them the SQLT_USER_ROLE role, or execute sqlt/install/sqguser.sql.

Main application user of SQLT:

no rows selected

APPLICATION_SCHEMA

SYSTEM

PL/SQL procedure successfully completed.

SQLT can make extensive use of licensed features provided by the Oracle Diagnostic and the Oracle Tuning Packs, including SQL Tuning Advisor (STA), SQL Monitoring and Automatic Workload Repository (AWR).

To enable or disable access to these features from the SQLT tool enter one of the following values when asked:

"T" if you have license for Diagnostic and Tuning
"D" if you have license only for Oracle Diagnostic
"N" if you do not have these two licenses

Oracle Pack license [T]:

PL/SQL procedure successfully completed.

SQCUSR completed. Some errors are expected.

Procedure created.

No errors.

PL/SQL procedure successfully completed.

SQLT\$STAGE: created
SQLT\$STAGE: READ,WRITE access granted to SQLTXPLAIN
SQLT\$STAGE: READ,WRITE access granted to SQLT_USER_ROLE
SQLT\$STAGE: write test file tasqdirset.txt
SQLT\$STAGE: read test file tasqdirset.txt
SQLT\$STAGE: get attributes for file tasqdirset.txt
SQLT\$STAGE: /u02/app/oracle/admin/RTXINT3G/udump
TRCA\$STAGE: created
TRCA\$STAGE: READ,WRITE access granted to SQLTXPLAIN
TRCA\$STAGE: write test file tasqdirset.txt
TRCA\$STAGE: read test file tasqdirset.txt
TRCA\$STAGE: get attributes for file tasqdirset.txt
TRCA\$STAGE: /u02/app/oracle/admin/RTXINT3G/udump
SQLT\$UDUMP: created
SQLT\$UDUMP: READ access granted to SQLTXPLAIN

```
SQLT$UDUMP: read test file tasqdirset.txt
SQLT$UDUMP: get attributes for file tasqdirset.txt
SQLT$UDUMP: /u02/app/oracle/admin/RTXINT3G/udump
SQLT$BDUMP: created
SQLT$BDUMP: READ access granted to SQLTXPLAIN
SQLT$BDUMP: /u02/app/oracle/admin/RTXINT3G/bdump
TRCA$INPUT1: created
TRCA$INPUT1: READ access granted to SQLTXPLAIN
TRCA$INPUT1: read test file tasqdirset.txt
TRCA$INPUT1: get attributes for file tasqdirset.txt
TRCA$INPUT1: /u02/app/oracle/admin/RTXINT3G/udump
TRCA$INPUT2: created
TRCA$INPUT2: READ access granted to SQLTXPLAIN
TRCA$INPUT2: /u02/app/oracle/admin/RTXINT3G/bdump
```

PL/SQL procedure successfully completed.

Connected.

TAUTLTEST completed.

SQUTLTEST completed.

no rows selected

```
TACOBJ completed.
tool_owner: "SQLTXPLAIN"
Creating Package Specs TRCA$G
No errors.
Creating Package Specs TRCA$P
No errors.
Creating Package Specs TRCA$T
No errors.
Creating Package Specs TRCA$I
No errors.
Creating Package Specs TRCA$E
No errors.
Creating Package Specs TRCA$R
No errors.
Creating Package Specs TRCA$X
No errors.
Creating Views
Creating Package Body TRCA$G
No errors.
Creating Package Body TRCA$P
No errors.
Creating Package Body TRCA$T
No errors.
Creating Package Body TRCA$I
No errors.
Creating Package Body TRCA$E
No errors.
Creating Package Body TRCA$R
No errors.
Creating Package Body TRCA$X
No errors.
Creating Grants on Packages
```

```
Tool Version
-----
11.4.3.1

Install Date
-----
20110712
```

Directories

```
TRCA$INPUT1 (VALID)      /u02/app/oracle/admin/RTXINT3G/udump
TRCA$INPUT2 (VALID)      /u02/app/oracle/admin/RTXINT3G/bdump
TRCA$STAGE (VALID)       /u02/app/oracle/admin/RTXINT3G/udump
user_dump_dest           /u02/app/oracle/admin/RTXINT3G/udump
background_dump_dest     /u02/app/oracle/admin/RTXINT3G/bdump
```

Libraries

```
VALID PACKAGE TRCA$I /* $Header: 224270.1 tacpkgi.pks 11.4.2.7 2011/04/08 csiera $ */
VALID PACKAGE TRCA$E /* $Header: 224270.1 tacpkge.pks 11.4.2.7 2011/04/08 csiera $ */
VALID PACKAGE TRCA$G /* $Header: 224270.1 tacpkgg.pks 11.4.2.7 2011/04/08 csiera $ */
VALID PACKAGE TRCA$P /* $Header: 224270.1 tacpkgp.pks 11.4.1.4 2010/07/12 csiera $ */
VALID PACKAGE TRCA$R /* $Header: 224270.1 tacpkgr.pks 11.4.2.7 2011/04/08 csiera $ */
VALID PACKAGE TRCA$T /* $Header: 224270.1 tacpkgt.pks 11.4.3.1 2011/06/17 csiera $ */
VALID PACKAGE TRCA$X /* $Header: 224270.1 tacpkgx.pks 11.4.2.7 2011/04/08 csiera $ */
VALID PACKAGE BODY TRCA$I /* $Header: 224270.1 tacpkgi.pkb 11.4.2.7 2011/04/08 csiera $ */
VALID PACKAGE BODY TRCA$E /* $Header: 224270.1 tacpkge.pkb 11.4.2.7 2011/04/08 csiera $ */
VALID PACKAGE BODY TRCA$G /* $Header: 224270.1 tacpkgg.pkb 11.4.2.7 2011/04/08 csiera $ */
VALID PACKAGE BODY TRCA$P /* $Header: 224270.1 tacpkgp.pkb 11.4.3.1 2011/06/17 csiera $ */
VALID PACKAGE BODY TRCA$R /* $Header: 224270.1 tacpkgr.pkb 11.4.2.7 2011/04/08 csiera $ */
VALID PACKAGE BODY TRCA$T /* $Header: 224270.1 tacpkgt.pkb 11.4.3.1 2011/06/17 csiera $ */
VALID PACKAGE BODY TRCA$X /* $Header: 224270.1 tacpkgx.pkb 11.4.2.7 2011/04/08 csiera $ */
TACPKG completed.
```

PL/SQL procedure successfully completed.

... creating SQLT schema objects, please wait

SQCOBJ completed. Some errors are expected.

PL/SQL procedure successfully completed.

... creating some old SQLT schema objects, please wait

SQCOLD completed. Some errors are expected.

SQLT can make extensive use of licensed features provided by the Oracle Diagnostic and the Oracle Tuning Packs, including SQL Tuning Advisor (STA), SQL Monitoring and Automatic Workload Repository (AWR).

To enable or disable access to these features from the SQLT tool enter one of the following values when asked:

"T" if you have license for Diagnostic and Tuning
"D" if you have license only for Oracle Diagnostic
"N" if you do not have these two licenses

```
old 2: DBMS_OUTPUT.PUT_LINE('pack_license: "~~pack_license."');
new 2: DBMS_OUTPUT.PUT_LINE('pack_license: ""');
old 3: IF NVL(SUBSTR(UPPER(TRIM('~~pack_license.')), 1, 1), 'T') = 'T' THEN
new 3: IF NVL(SUBSTR(UPPER(TRIM('')), 1, 1), 'T') = 'T' THEN
old 9: ELSIF SUBSTR(UPPER(TRIM('~~pack_license.')), 1, 1) = 'D' THEN
new 9: ELSIF SUBSTR(UPPER(TRIM('')), 1, 1) = 'D' THEN
pack_license: ""
enable_tuning_pack_access
```

PL/SQL procedure successfully completed.

Specify optional Connect Identifier (as per Oracle Net)
Include "@" symbol, ie. @PROD
If not applicable, enter nothing and hit the "Enter" key

```
old 2:  DBMS_OUTPUT.PUT_LINE('connect_identifier: "~connect_identifier.");
new 2:  DBMS_OUTPUT.PUT_LINE('connect_identifier: "");
old 3:  IF '~connect_identifier.' IS NOT NULL AND '~connect_identifier.' LIKE '@%' THEN
new 3:  IF '' IS NOT NULL AND '' LIKE '@%' THEN
old 5:          SET value = UPPER('~connect_identifier. ');
new 5:          SET value = UPPER(' ');
connect_identifier: ""
```

PL/SQL procedure successfully completed.

Table truncated.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

```
        FROM applsys.fnd_product_groups;
        *
ERROR at line 4:
ORA-06550: line 4, column 18:
PL/SQL: ORA-00942: table or view does not exist
ORA-06550: line 2, column 3:
PL/SQL: SQL Statement ignored
```

Procedure created.

No errors.

Table truncated.

PL/SQL procedure successfully completed.

Procedure dropped.

Commit complete.

```
DEFINE _SQLPLUS_RELEASE = "1002000400" (CHAR)
```

```
BANNER
```

```
-----
Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bi
```

PL/SQL Release 10.2.0.4.0 - Production
CORE 10.2.0.4.0 Production
TNS for HPUNIX: Version 10.2.0.4.0 - Production
NLSRTL Version 10.2.0.4.0 - Production

SQSEED completed.

PL/SQL procedure successfully completed.

```
... creating package specs for SQLT$A
No errors.
... creating package specs for SQLT$C
No errors.
... creating package specs for SQLT$D
No errors.
... creating package specs for SQLT$E
No errors.
... creating package specs for SQLT$H
No errors.
... creating package specs for SQLT$I
No errors.
... creating package specs for SQLT$M
No errors.
... creating package specs for SQLT$R
No errors.
... creating package specs for SQLT$S
No errors.
... creating package specs for SQLT$T
No errors.
... creating views
... creating procedures
No errors.
... creating package body for SQLT$A
No errors.
... creating package body for SQLT$C
No errors.
... creating package body for SQLT$D
No errors.
... creating package body for SQLT$E
No errors.
... creating package body for SQLT$H
No errors.
... creating package body for SQLT$I
No errors.
... creating package body for SQLT$M
No errors.
... creating package body for SQLT$R
No errors.
... creating package body for SQLT$S
No errors.
... creating package body for SQLT$T
No errors.
```

Creating Grants on Packages ...

LIBRARIES

```
-----
VALID PACKAGE 11.4.3.2 SQLT$A
VALID PACKAGE 11.4.0.1 SQLT$C
VALID PACKAGE 11.4.3.2 SQLT$D
VALID PACKAGE 11.4.2.7 SQLT$E
VALID PACKAGE 11.4.0.1 SQLT$H
VALID PACKAGE 11.4.2.7 SQLT$I
VALID PACKAGE 11.4.3.0 SQLT$M
```

```
VALID PACKAGE 11.4.3.2 SOLT$R
VALID PACKAGE 11.4.3.2 SOLT$S
VALID PACKAGE 11.4.3.2 SOLT$T
VALID PACKAGE 11.4.2.7 TRCA$E
VALID PACKAGE 11.4.2.7 TRCA$G
VALID PACKAGE 11.4.2.7 TRCA$I
VALID PACKAGE 11.4.1.4 TRCA$P
VALID PACKAGE 11.4.2.7 TRCA$R
VALID PACKAGE 11.4.3.1 TRCA$T
VALID PACKAGE 11.4.2.7 TRCA$X
VALID PACKAGE BODY 11.4.3.2 SOLT$A
VALID PACKAGE BODY 11.4.3.2 SOLT$C
VALID PACKAGE BODY 11.4.3.2 SOLT$D
VALID PACKAGE BODY 11.4.3.2 SOLT$E
```

LIBRARIES

```
VALID PACKAGE BODY 11.4.3.2 SOLT$H
VALID PACKAGE BODY 11.4.3.2 SOLT$I
VALID PACKAGE BODY 11.4.3.2 SOLT$M
VALID PACKAGE BODY 11.4.3.2 SOLT$R
VALID PACKAGE BODY 11.4.3.2 SOLT$S
VALID PACKAGE BODY 11.4.3.2 SOLT$T
VALID PACKAGE BODY 11.4.2.7 TRCA$E
VALID PACKAGE BODY 11.4.2.7 TRCA$G
VALID PACKAGE BODY 11.4.2.7 TRCA$I
VALID PACKAGE BODY 11.4.3.1 TRCA$P
VALID PACKAGE BODY 11.4.2.7 TRCA$R
VALID PACKAGE BODY 11.4.3.1 TRCA$T
VALID PACKAGE BODY 11.4.2.7 TRCA$X
VALID PROCEDURE 11.4.3.1 SOLT$MIGRATE
```

Migrating relevant objects from old to new repository ...

PL/SQL procedure successfully completed.

SQCPKG completed.

Taking a snapshot of some Data Dictionary objects, please wait...

```
11:45:27 => refresh_trca$_dict_from_this
11:45:27 -> purge_trca$_dict
11:45:27 dict_state_before_purge
11:45:27 -----
11:45:27 -> print_dict_state
11:45:27 dict_refresh_days :
11:45:27 dict_refresh_date :
11:45:27 dict_database_id :
11:45:27 dict_database_name:
11:45:27 dict_instance_id :
11:45:27 dict_instance name:
11:45:27 dict_host_name :
11:45:27 dict_platform :
11:45:27 dict_rdbms_version:
11:45:27 dict_db_files :
11:45:27 <- print_dict_state
11:45:27 -> purge_trca$_dict_gtt
11:45:27 <- purge_trca$_dict_gtt
11:45:27 dict_state_after_purge
11:45:27 -----
11:45:27 -> print_dict_state
11:45:27 dict_refresh_days :
11:45:27 dict_refresh_date :
11:45:27 dict_database_id :
```

```
11:45:27 dict_database_name:
11:45:27 dict_instance_id   :
11:45:27 dict_instance_name:
11:45:27 dict_host_name      :
11:45:27 dict_platform       :
11:45:27 dict_rdbms_version:
11:45:27 dict_db_files       :
11:45:27 <- print_dict_state
11:45:27 <- purge_trca$_dict
11:45:27 -> trca$file$
11:45:27 <- trca$file$ (30 rows)
11:45:27 using serial execution
11:45:27 -> trca$segments
11:45:27 <- trca$segments (3928 rows)
11:45:27 -> trca$extents_dm
11:45:27 <- trca$extents_dm (0 rows)
11:45:27 -> trca$extents_lm
11:45:27 <- trca$extents_lm (12067 rows)
11:45:27 -> trca$users
11:45:27 <- trca$users (10 rows)
11:45:27 -> trca$extents
11:45:28 <- trca$extents (11821 rows)
11:45:28 -> purge_trca$dict_gtt
11:45:28 <- purge_trca$dict_gtt
11:45:28 -> trca$tables$
11:45:28 <- trca$tables$ (1499 rows)
11:45:28 -> trca$indexes$
11:45:28 <- trca$indexes$ (1789 rows)
11:45:28 -> trca$ind_columns$
11:45:29 <- trca$ind_columns$ (3707 rows)
11:45:29 -> trca$tab_cols$
11:45:29 <- trca$tab_cols$ (3364 rows)
11:45:29 -> trca$objects$
11:45:30 <- trca$objects$ (3791 rows)
11:45:30 -> trca$parameter2$
11:45:30 <- trca$parameter2$ (23 rows)
11:45:30 dict_state_after_refresh
11:45:30 -----
11:45:30 -> print_dict_state
11:45:30 dict_refresh_days : 1
11:45:30 dict_refresh_date  : 20110712
11:45:30 dict_database_id   : 925107982
11:45:30 dict_database_name: RTXINT3G
11:45:30 dict_instance_id   : 1
11:45:30 dict_instance_name: RTXINT3G
11:45:30 dict_host_name     : uxv2mig1
11:45:30 dict_platform      : HPUX
11:45:30 dict_rdbms_version: 10.2.0.4.0
11:45:30 dict_db_files      : 200
11:45:30 <- print_dict_state
11:45:30 <= refresh_trca$dict_from_this
```

PL/SQL procedure successfully completed.

Snapshot of some Data Dictionary objects completed.

TAUTLTEST completed.

SQUTLTEST completed.

SQCREATE completed. Installation completed successfully.

SQL>

SQL>

5.3. Anexo 3 : Logs de ejecución del método XTRACT

NOTE:

You used the XTRACT method connected as SYS.

In case of a session disconnect please verify the following:

1. There are no errors in sqltextract.log.
2. Your SQL 93s9k7wvifs05m exists in memory or in AWR.
3. You connected as the application user that issued original SQL.

In case of errors ORA-03113, ORA-03114 or ORA-07445 re-execute SQLT. This tool detects BUG 6356566 and handles it on a re-try.

To actually fix BUG 6356566, read ALERT log and provide referenced traces to Support. Reset SQLT parameter predicates_in_plan afterwards.

To monitor progress, login as SQLTXPLAIN into another session and execute:
SQL> SELECT * FROM sqlt\$_log_v;

```
... collecting diagnostics details ...

... getting sqlt_s25887_remote_driver.sql out of sqlt repository ...
... getting sqlt_s25887_main.html out of sqlt repository ...
... getting sqlt_s25887_lite.html out of sqlt repository ...
... getting sqlt_s25887_readme.html out of sqlt repository ...
... getting sqlt_s25887_readme.txt out of sqlt repository ...
... getting sqlt_s25887_metadata.sql out of sqlt repository ...
... getting sqlt_s25887_system_stats.sql out of sqlt repository ...
... getting sqlt_s25887_set_cbo_env.sql out of sqlt repository ...
... getting sqlt_s25887_p2769878751_sqlprof.sql out of sqlt repository ...
... getting sqlt_s25887_sta_report_mem.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting sqlt_s25887_10053_explain.trc out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting sqlt_s25887_import.sh out of sqlt repository ...
... getting sqlt_s25887_export_parfile.txt out of sqlt repository ...
... getting plan.sql out of sqlt repository ...
... getting 10053.sql out of sqlt repository ...
... getting flush.sql out of sqlt repository ...
... getting sqlt_s25887_purge.sql out of sqlt repository ...
... getting sqlt_s25887_restore.sql out of sqlt repository ...
... getting sqlt_s25887_del_hgrm.sql out of sqlt repository ...
... getting tc.sql out of sqlt repository ...
... getting tc.sh out of sqlt repository ...
... getting sqltc.sql out of sqlt repository ...
... getting setup.sql out of sqlt repository ...
... getting selectivity.sql out of sqlt repository ...
... getting selectivity_aux.sql out of sqlt repository ...
... getting sqlt_s25887_tcb_driver.sql out of sqlt repository ...
... getting sqlt_s25887_export_driver.sql out of sqlt repository ...
```

```
*****
* Enter SQLTXPLAIN password to export SQLT repository (required) *
*****
```

Export: Release 10.2.0.4.0 - Production on Tue Jul 12 12:21:49 2011

Copyright (c) 1982, 2007, Oracle. All rights reserved.

Password:

Connected to: Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
Export done in US7ASCII character set and AL16UTF16 NCHAR character set
server uses WE8ISO8859P1 character set (possible charset conversion)
Note: grants on tables/views/sequences/roles will not be exported
Note: indexes on tables will not be exported
Note: constraints on tables will not be exported

About to export specified tables via Conventional Path ...

. . exporting table	SQLT\$_SQL_STATEMENT	1 rows exported
. . exporting table	SQLT\$_AUX_STATS\$	13 rows exported
. . exporting table	SQLT\$_DBA_COL_STATS_VERSIONS	375 rows exported
. . exporting table	SQLT\$_DBA_COL_USAGE\$	1 rows exported
. . exporting table	SQLT\$_DBA_CONSTRAINTS	5 rows exported
. . exporting table	SQLT\$_DBA_IND_COLUMNS	1 rows exported
. . exporting table	SQLT\$_DBA_IND_STATISTICS	1 rows exported
. . exporting table	SQLT\$_DBA_IND_STATS_VERSIONS	25 rows exported
. . exporting table	SQLT\$_DBA_INDEXES	1 rows exported
. . exporting table	SQLT\$_DBA_OBJECTS	2 rows exported
. . exporting table	SQLT\$_DBA_OPTSTAT_OPERATIONS	27 rows exported
. . exporting table	SQLT\$_DBA_SCHEDULER_JOBS	1 rows exported
. . exporting table	SQLT\$_DBA_SEGMENTS	2 rows exported
. . exporting table	SQLT\$_DBA_TAB_COLS	17 rows exported
. . exporting table	SQLT\$_DBA_TAB_HISTOGRAMS	30 rows exported
. . exporting table	SQLT\$_DBA_TAB_STATISTICS	1 rows exported
. . exporting table	SQLT\$_DBA_TAB_STATS_VERSIONS	25 rows exported
. . exporting table	SQLT\$_DBA_TABLES	1 rows exported
. . exporting table	SQLT\$_DBA_TABLESPACES	4 rows exported
. . exporting table	SQLT\$_DBMS_XPLAN	149 rows exported
. . exporting table	SQLT\$_GV\$NLS_PARAMETERS	19 rows exported
. . exporting table	SQLT\$_GV\$OBJECT_DEPENDENCY	1 rows exported
. . exporting table	SQLT\$_GV\$PARAMETER2	262 rows exported
. . exporting table	SQLT\$_GV\$PARAMETER_CBO	190 rows exported
. . exporting table	SQLT\$_GV\$PQ_SYSSTAT	16 rows exported
. . exporting table	SQLT\$_GV\$PX_PROCESS_SYSSTAT	15 rows exported
. . exporting table	SQLT\$_GV\$SQL	1 rows exported
. . exporting table	SQLT\$_GV\$SQL_BIND_CAPTURE	1 rows exported
. . exporting table	SQLT\$_GV\$SQL_OPTIMIZER_ENV	1 rows exported
. . exporting table	SQLT\$_GV\$SQL_PLAN	3 rows exported
. . exporting table	SQLT\$_GV\$SQL_SHARED_CURSOR	1 rows exported
. . exporting table	SQLT\$_GV\$SQLAREA	1 rows exported
. . exporting table	SQLT\$_GV\$SQLAREA_PLAN_HASH	1 rows exported
. . exporting table	SQLT\$_GV\$SQLSTATS	1 rows exported
. . exporting table	SQLT\$_GV\$SQLTEXT_WITH_NEWLINES	6 rows exported
. . exporting table	SQLT\$_GV\$SYSTEM_PARAMETER	260 rows exported
. . exporting table	SQLT\$_LOG	801 rows exported
. . exporting table	SQLT\$_METADATA	4 rows exported
. . exporting table	SQLT\$_NLS_DATABASE_PARAMETERS	20 rows exported
. . exporting table	SQLT\$_OUTLINE_DATA	18 rows exported
. . exporting table	SQLT\$_PEEKED_BINDS	2 rows exported
. . exporting table	SQLT\$_PLAN_EXTENSION	6 rows exported
. . exporting table	SQLT\$_PLAN_INFO	12 rows exported
. . exporting table	SQLT\$_SQL_PLAN_TABLE	3 rows exported
. . exporting table	SQLT\$_STATTAB	17 rows exported
. . exporting table	SQLT\$_V\$SESSION_FIX_CONTROL	115 rows exported
. . exporting table	SQLT\$_WRI\$_ADV_TASKS	1 rows exported

Export terminated successfully without warnings.

... getting sqlt_s25887_tc_sql.sql out of sqlt repository ...
... getting q.sql out of sqlt repository ...

```
... getting sqlt_s25887_tc_script.sql out of sqlt repository ...
warning [sqlt_s25887.zip]: zipfile is empty
  adding: sqlt_s25887_xtract.log (deflated 75%)
  adding: sqltxhost.log (deflated 80%)
test of sqlt_s25887_log.zip OK
  adding: sqlt_s25887_10053_explain.trc (deflated 82%)
  adding: sqlt_s25887_driver.zip (stored 0%)
  adding: sqlt_s25887_lite.html (deflated 82%)
  adding: sqlt_s25887_log.zip (stored 0%)
  adding: sqlt_s25887_main.html (deflated 86%)
  adding: sqlt_s25887_opatch.zip (stored 0%)
  adding: sqlt_s25887_p2769878751_sqlprof.sql (deflated 50%)
  adding: sqlt_s25887_readme.html (deflated 71%)
  adding: sqlt_s25887_sta_report_mem.txt (deflated 71%)
  adding: sqlt_s25887_tc.zip (stored 0%)
  adding: sqlt_s25887_tc_script.sql (deflated 43%)
  adding: sqlt_s25887_tc_sql.sql (deflated 50%)
  adding: sqlt_s25887_trc.zip (stored 0%)
test of sqlt_s25887.zip OK
Archive:  sqlt_s25887.zip
Length   Date    Time    Name
-----
 39790   07-12-11  12:21   sqlt_s25887_10053_explain.trc
  2584   07-12-11  12:22   sqlt_s25887_driver.zip
 17971   07-12-11  12:21   sqlt_s25887_lite.html
 11686   07-12-11  12:22   sqlt_s25887_log.zip
455947   07-12-11  12:21   sqlt_s25887_main.html
  1973   07-12-11  12:22   sqlt_s25887_opatch.zip
  3010   07-12-11  12:21   sqlt_s25887_p2769878751_sqlprof.sql
 12622   07-12-11  12:21   sqlt_s25887_readme.html
  4002   07-12-11  12:21   sqlt_s25887_sta_report_mem.txt
106473   07-12-11  12:22   sqlt_s25887_tc.zip
   853   07-12-11  12:22   sqlt_s25887_tc_script.sql
   332   07-12-11  12:22   sqlt_s25887_tc_sql.sql
  7528   07-12-11  12:22   sqlt_s25887_trc.zip
-----
664771                                     13 files

File sqlt_s25887.zip for 93s9k7wvfs05m has been created.

SQLTXTRACT completed.
SQL>
```

5.4. Anexo 4 : Logs de ejecución de método XECUTE

NOTE:

You used the XECUTE method connected as SYS.

In case of a session disconnect please verify the following:

1. There are no errors in sqltxecute.log or sqltxecute2.log.
2. Your SQL contains token "^^unique_id" within a comment.
3. Your SQL ends with a semi-colon ";".
4. You connected as the application user that issued original SQL.
5. Script /u02/orabscs/sqlt/sqlt/input/script1.sql can execute stand-alone connected as SYS

In case of errors ORA-03113, ORA-03114 or ORA-07445 re-execute SQLT. This tool detects BUG 6356566 and handles it on a re-try.

To actually fix BUG 6356566, read ALERT log and provide referenced traces to Support. Reset SQLT parameter predicates_in_plan afterwards.

```
... executing /u02/orabscs/sqlt/sqlt/input/script1.sql ...
```

To monitor progress, login as SQLTXPLAIN into another session and execute:

```
SQL> SELECT * FROM sqlt$_log_v;
```

```
... collecting diagnostics details ...

... getting sqlt_s25907_remote_driver.sql out of sqlt repository ...
... getting sqlt_s25907_main.html out of sqlt repository ...
... getting sqlt_s25907_lite.html out of sqlt repository ...
... getting sqlt_s25907_readme.html out of sqlt repository ...
... getting sqlt_s25907_readme.txt out of sqlt repository ...
... getting sqlt_s25907_metadata.sql out of sqlt repository ...
... getting sqlt_s25907_system_stats.sql out of sqlt repository ...
... getting sqlt_s25907_set_cbo_env.sql out of sqlt repository ...
... getting sqlt_s25907_p2769878751_sqlprof.sql out of sqlt repository ...
... getting sqlt_s25907_sta_report_mem.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting sqlt_s25907_sta_report_txt.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting sqlt_s25907_10053_explain.trc out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting sqlt_s25907_import.sh out of sqlt repository ...
... getting sqlt_s25907_export_parfile.txt out of sqlt repository ...
... getting plan.sql out of sqlt repository ...
... getting 10053.sql out of sqlt repository ...
... getting flush.sql out of sqlt repository ...
... getting sqlt_s25907_purge.sql out of sqlt repository ...
... getting sqlt_s25907_restore.sql out of sqlt repository ...
... getting sqlt_s25907_del_hgrm.sql out of sqlt repository ...
... getting tc.sql out of sqlt repository ...
... getting tc.sh out of sqlt repository ...
... getting sqltc.sql out of sqlt repository ...
... getting setup.sql out of sqlt repository ...
... getting selectivity.sql out of sqlt repository ...
... getting selectivity_aux.sql out of sqlt repository ...
... getting sqlt_s25907_tcb_driver.sql out of sqlt repository ...
... getting sqlt_s25907_export_driver.sql out of sqlt repository ...
```

```
*****
* Enter SQLTXPLAIN password to export SQLT repository (required) *
*****
```

```
Export: Release 10.2.0.4.0 - Production on Wed Jul 13 12:27:04 2011
```

```
Copyright (c) 1982, 2007, Oracle. All rights reserved.
```

```
Password:
```

```
Connected to: Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
Export done in US7ASCII character set and AL16UTF16 NCHAR character set
server uses WE8ISO8859P1 character set (possible charset conversion)
Note: grants on tables/views/sequences/roles will not be exported
Note: indexes on tables will not be exported
Note: constraints on tables will not be exported
```

```
About to export specified tables via Conventional Path ...
. . exporting table          SQLT$_SQL_STATEMENT          1 rows exported
. . exporting table          SQLT$_AUX_STATS$             13 rows exported
. . exporting table  SQLT$_DBA_COL_STATS_VERSIONS        390 rows exported
. . exporting table          SQLT$_DBA_COL_USAGE$         1 rows exported
```

```

. . exporting table          SQLT$_DBA_CONSTRAINTS          5 rows exported
. . exporting table          SQLT$_DBA_HIST_PARAMETER_M      4 rows exported
. . exporting table          SQLT$_DBA_HIST_SNAPSHOT         2 rows exported
. . exporting table          SQLT$_DBA_IND_COLUMNS           1 rows exported
. . exporting table          SQLT$_DBA_IND_STATISTICS         1 rows exported
. . exporting table          SQLT$_DBA_IND_STATS_VERSIONS    26 rows exported
. . exporting table          SQLT$_DBA_INDEXES                1 rows exported
. . exporting table          SQLT$_DBA_OBJECTS                2 rows exported
. . exporting table          SQLT$_DBA_OPTSTAT_OPERATIONS    29 rows exported
. . exporting table          SQLT$_DBA_SCHEDULER_JOBS         1 rows exported
. . exporting table          SQLT$_DBA_SEGMENTS               2 rows exported
. . exporting table          SQLT$_DBA_TAB_COLS                17 rows exported
. . exporting table          SQLT$_DBA_TAB_HISTOGRAMS          30 rows exported
. . exporting table          SQLT$_DBA_TAB_STATISTICS          1 rows exported
. . exporting table          SQLT$_DBA_TAB_STATS_VERSIONS     26 rows exported
. . exporting table          SQLT$_DBA_TABLES                  1 rows exported
. . exporting table          SQLT$_DBA_TABLESPACES             4 rows exported
. . exporting table          SQLT$_DBMS_XPLAN                  101 rows exported
. . exporting table          SQLT$_GV$NLS_PARAMETERS           19 rows exported
. . exporting table          SQLT$_GV$OBJECT_DEPENDENCY        1 rows exported
. . exporting table          SQLT$_GV$PARAMETER2              262 rows exported
. . exporting table          SQLT$_GV$PARAMETER_CBO            190 rows exported
. . exporting table          SQLT$_GV$PQ_SESSSTAT              22 rows exported
. . exporting table          SQLT$_GV$PQ_SYSSSTAT              32 rows exported
. . exporting table          SQLT$_GV$PX_PROCESS_SYSSSTAT      30 rows exported
. . exporting table          SQLT$_GV$SEGMENT_STATISTICS        60 rows exported
. . exporting table          SQLT$_GV$SESSION_EVENT            14 rows exported
. . exporting table          SQLT$_GV$SESSTAT                  762 rows exported
. . exporting table          SQLT$_GV$SQL                       1 rows exported
. . exporting table          SQLT$_GV$SQL_BIND_CAPTURE          1 rows exported
. . exporting table          SQLT$_GV$SQL_OPTIMIZER_ENV         2 rows exported
. . exporting table          SQLT$_GV$SQL_PLAN                  3 rows exported
. . exporting table          SQLT$_GV$SQL_PLAN_STATISTICS       2 rows exported
. . exporting table          SQLT$_GV$SQL_SHARED_CURSOR         1 rows exported
. . exporting table          SQLT$_GV$SQLAREA                   1 rows exported
. . exporting table          SQLT$_GV$SQLAREA_PLAN_HASH         1 rows exported
. . exporting table          SQLT$_GV$SQLSTATS                   1 rows exported
. . exporting table          SQLT$_GV$SQLTEXT_WITH_NEWLINES     7 rows exported
. . exporting table          SQLT$_GV$STATNAME                  381 rows exported
. . exporting table          SQLT$_GV$SYSTEM_PARAMETER          260 rows exported
. . exporting table          SQLT$_LOG                          841 rows exported
. . exporting table          SQLT$_METADATA                      4 rows exported
. . exporting table          SQLT$_NLS_DATABASE_PARAMETERS      20 rows exported
. . exporting table          SQLT$_OUTLINE_DATA                 20 rows exported
. . exporting table          SQLT$_PEEKED_BINDS                  2 rows exported
. . exporting table          SQLT$_PLAN_EXTENSION                6 rows exported
. . exporting table          SQLT$_PLAN_INFO                     12 rows exported
. . exporting table          SQLT$_SQL_PLAN_TABLE                 3 rows exported
. . exporting table          SQLT$_STATTAB                       17 rows exported
. . exporting table          SQLT$_V$SESSION_FIX_CONTROL        115 rows exported
. . exporting table          SQLT$_WRI$ADV_TASKS                 2 rows exported
Export terminated successfully without warnings.

```

```

... getting sqlt_s25907_10046_10053_execute.trc out of sqlt repository ...
... getting sqlt_s25907_10046_execute.trc out of sqlt repository ...
... getting sqlt_s25907_10053_execute.trc out of sqlt repository ...
... getting sqlt_s25907_trca_e44508.html out of sqlt repository ...
... getting sqlt_s25907_trca_e44508.txt out of sqlt repository ...
... getting sqlt_s25907_trca_e44508.log out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting sqlt_s25907_tkprof_px_driver.sql out of sqlt repository ...
/usr/bin/ksh: copy: not found
  adding: sqlt_s25907_xecute.log (deflated 78%)
  adding: sqltxhost.log (deflated 81%)

```

```
test of sqlt_s25907_log.zip OK
adding: sqlt_s25907_10046_10053_execute.trc (deflated 85%)
adding: sqlt_s25907_10046_execute.trc (deflated 84%)
adding: sqlt_s25907_10053_execute.trc (deflated 85%)
adding: sqlt_s25907_10053_explain.trc (deflated 82%)
adding: sqlt_s25907_driver.zip (stored 0%)
adding: sqlt_s25907_lite.html (deflated 80%)
adding: sqlt_s25907_log.zip (stored 0%)
adding: sqlt_s25907_main.html (deflated 86%)
adding: sqlt_s25907_opatch.zip (stored 0%)
adding: sqlt_s25907_p2769878751_sqlprof.sql (deflated 52%)
adding: sqlt_s25907_readme.html (deflated 71%)
adding: sqlt_s25907_sta_report_mem.txt (deflated 73%)
adding: sqlt_s25907_sta_report_txt.txt (deflated 73%)
adding: sqlt_s25907_tc.zip (stored 0%)
adding: sqlt_s25907_tkprof_nosort.txt (deflated 89%)
adding: sqlt_s25907_tkprof_sort.txt (deflated 89%)
adding: sqlt_s25907_trc.zip (stored 0%)
adding: sqlt_s25907_trca_e44508.html (deflated 92%)
adding: sqlt_s25907_trca_e44508.log (deflated 84%)
adding: sqlt_s25907_trca_e44508.txt (deflated 90%)
```

```
test of sqlt_s25907.zip OK
```

```
Archive: sqlt_s25907.zip
```

Length	Date	Time	Name
505	07-13-11	12:24	script1.sql
125085	07-13-11	12:27	sqlt_s25907_10046_10053_execute.trc
23320	07-13-11	12:27	sqlt_s25907_10046_execute.trc
102613	07-13-11	12:27	sqlt_s25907_10053_execute.trc
39853	07-13-11	12:27	sqlt_s25907_10053_explain.trc
2918	07-13-11	12:27	sqlt_s25907_driver.zip
16011	07-13-11	12:27	sqlt_s25907_lite.html
17186	07-13-11	12:27	sqlt_s25907_log.zip
489232	07-13-11	12:27	sqlt_s25907_main.html
1973	07-13-11	12:27	sqlt_s25907_opatch.zip
3135	07-13-11	12:27	sqlt_s25907_p2769878751_sqlprof.sql
12927	07-13-11	12:27	sqlt_s25907_readme.html
4268	07-13-11	12:27	sqlt_s25907_sta_report_mem.txt
4268	07-13-11	12:27	sqlt_s25907_sta_report_txt.txt
121415	07-13-11	12:27	sqlt_s25907_tc.zip
22661	07-13-11	12:27	sqlt_s25907_tkprof_nosort.txt
22693	07-13-11	12:27	sqlt_s25907_tkprof_sort.txt
26973	07-13-11	12:27	sqlt_s25907_trc.zip
187991	07-13-11	12:27	sqlt_s25907_trca_e44508.html
19068	07-13-11	12:27	sqlt_s25907_trca_e44508.log
97500	07-13-11	12:27	sqlt_s25907_trca_e44508.txt
-----			-----
1341595			21 files

```
File sqlt_s25907.zip for /u02/orabscs/sqlt/sqlt/input/script1.sql has been created.
```

```
SQLTXECUTE completed.
```

```
SQL>
```

5.5. Anexo 5 : Logs de ejecución método XPLAIN

```
WARNING:
```

```
~~~~~
```

```
You are about to use SQLT XPLAIN method.
```

```
If you were requested by Oracle Support to use  
XTRACT or XECUTE, then do not use this XPLAIN method.
```

```
Be aware that XPLAIN method cannot perform bind peeking.
```

Replacing bind variables with literal values does not guarantee the generated plan to be the same than the one produced by XTRACT or XECUTE. Thus the plan generated by XPLAIN might not be useful to progress your issue.

If you still want to proceed with the XPLAIN method, enter the keyword XPLAIN when asked for "sqlt_method".

```
Enter value for sqlt_method: XPLAIN
XPLAIN
```

```
... reading file /u02/orabscs/sqlt/sqlt/input/script1.sql ...
```

```
SQL>GET ^^file_with_one_sql.
 1  select snap_interval,
 2         retention,
 3         most_recent_snap_time,
 4         most_recent_snap_id,
 5         status_flag,
 6         most_recent_purge_time,
 7         most_recent_split_id,
 8         most_recent_split_time,
 9         mrct_snap_time_num,
10        mrct_purge_time_num,
11        snapint_num,
12        retention_num,
13        swrf_version ,
14        registration_status,
15        mrct_baseline_id,
16        topnsql
17  from wrm$_wr_control
18*  where dbid = 925107982;
SQL>.
SQL>SET TERM OFF ECHO ON VER ON SERVEROUT OFF SUF sql;
```

NOTE:
You used the XPLAIN method connected as SYS.

In case of a session disconnect please verify the following:

1. There are no errors in sqltxplain.log.
2. You connected as the application user that issued original SQL.
3. File /u02/orabscs/sqlt/sqlt/input/script1.sql exists and contains ONE valid DML statement.

To monitor progress, login as SQLTXPLAIN into another session and execute:

```
SQL> SELECT * FROM sqlt$_log_v;

... collecting diagnostics details ...

... getting sqlt_s25909_remote_driver.sql out of sqlt repository ...
... getting sqlt_s25909_main.html out of sqlt repository ...
... getting sqlt_s25909_lite.html out of sqlt repository ...
... getting sqlt_s25909_readme.html out of sqlt repository ...
... getting sqlt_s25909_readme.txt out of sqlt repository ...
... getting sqlt_s25909_metadata.sql out of sqlt repository ...
... getting sqlt_s25909_system_stats.sql out of sqlt repository ...
... getting sqlt_s25909_set_cbo_env.sql out of sqlt repository ...
... getting sqlt_s25909_p2769878751_sqlprof.sql out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
```

```

... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting sqlt_s25909_10053_explain.trc out of sqlt repository ...
... getting missing_file.txt out of sqlt repository ...
... getting sqlt_s25909_import.sh out of sqlt repository ...
... getting sqlt_s25909_export_parfile.txt out of sqlt repository ...
... getting plan.sql out of sqlt repository ...
... getting 10053.sql out of sqlt repository ...
... getting flush.sql out of sqlt repository ...
... getting sqlt_s25909_purge.sql out of sqlt repository ...
... getting sqlt_s25909_restore.sql out of sqlt repository ...
... getting sqlt_s25909_del_hgrm.sql out of sqlt repository ...
... getting tc.sql out of sqlt repository ...
... getting tc.sh out of sqlt repository ...
... getting sqltc.sql out of sqlt repository ...
... getting setup.sql out of sqlt repository ...
... getting selectivity.sql out of sqlt repository ...
... getting selectivity_aux.sql out of sqlt repository ...
... getting sqlt_s25909_tcb_driver.sql out of sqlt repository ...
... getting sqlt_s25909_export_driver.sql out of sqlt repository ...

```

```

*****
* Enter SQLTXPLAIN password to export SQLT repository (required) *
*****

```

Export: Release 10.2.0.4.0 - Production on Wed Jul 13 12:51:41 2011

Copyright (c) 1982, 2007, Oracle. All rights reserved.

Password:

```

Connected to: Oracle Database 10g Enterprise Edition Release 10.2.0.4.0 - 64bit Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
Export done in US7ASCII character set and AL16UTF16 NCHAR character set
server uses WE8ISO8859P1 character set (possible charset conversion)
Note: grants on tables/views/sequences/roles will not be exported
Note: indexes on tables will not be exported
Note: constraints on tables will not be exported

```

About to export specified tables via Conventional Path ...

.. exporting table	SQLT\$_SQL_STATEMENT	1 rows exported
.. exporting table	SQLT\$_AUX_STATS\$	13 rows exported
.. exporting table	SQLT\$_DBA_COL_STATS_VERSIONS	390 rows exported
.. exporting table	SQLT\$_DBA_COL_USAGE\$	1 rows exported
.. exporting table	SQLT\$_DBA_CONSTRAINTS	5 rows exported
.. exporting table	SQLT\$_DBA_HIST_PARAMETER M	4 rows exported
.. exporting table	SQLT\$_DBA_HIST_SNAPSHOT	2 rows exported
.. exporting table	SQLT\$_DBA_IND_COLUMNS	1 rows exported
.. exporting table	SQLT\$_DBA_IND_STATISTICS	1 rows exported
.. exporting table	SQLT\$_DBA_IND_STATS_VERSIONS	26 rows exported
.. exporting table	SQLT\$_DBA_INDEXES	1 rows exported
.. exporting table	SQLT\$_DBA_OBJECTS	2 rows exported
.. exporting table	SQLT\$_DBA_OPTSTAT_OPERATIONS	30 rows exported
.. exporting table	SQLT\$_DBA_SCHEDULER_JOBS	1 rows exported
.. exporting table	SQLT\$_DBA_SEGMENTS	2 rows exported
.. exporting table	SQLT\$_DBA_TAB_COLS	17 rows exported
.. exporting table	SQLT\$_DBA_TAB_HISTOGRAMS	30 rows exported
.. exporting table	SQLT\$_DBA_TAB_STATISTICS	1 rows exported
.. exporting table	SQLT\$_DBA_TAB_STATS_VERSIONS	26 rows exported
.. exporting table	SQLT\$_DBA_TABLES	1 rows exported
.. exporting table	SQLT\$_DBA_TABLESPACES	4 rows exported
.. exporting table	SQLT\$_DBMS_XPLAN	62 rows exported
.. exporting table	SQLT\$_GV\$NLS_PARAMETERS	19 rows exported
.. exporting table	SQLT\$_GV\$OBJECT_DEPENDENCY	1 rows exported

```

. . exporting table          SQLT$_GV$PARAMETER2          262 rows exported
. . exporting table          SQLT$_GV$PARAMETER_CBO        190 rows exported
. . exporting table          SQLT$_GV$PQ_SYSSTAT           16 rows exported
. . exporting table          SQLT$_GV$PX_PROCESS_SYSSTAT    15 rows exported
. . exporting table          SQLT$_GV$SQL                  1 rows exported
. . exporting table          SQLT$_GV$SQL_SHARED_CURSOR     1 rows exported
. . exporting table          SQLT$_GV$SQLAREA                1 rows exported
. . exporting table          SQLT$_GV$SQLAREA_PLAN_HASH     1 rows exported
. . exporting table          SQLT$_GV$SQLSTATS              1 rows exported
. . exporting table          SQLT$_GV$SQLTEXT_WITH_NEWLINES  9 rows exported
. . exporting table          SQLT$_GV$SYSTEM_PARAMETER      260 rows exported
. . exporting table          SQLT$_LOG                      742 rows exported
. . exporting table          SQLT$_METADATA                  4 rows exported
. . exporting table          SQLT$_NLS_DATABASE_PARAMETERS   20 rows exported
. . exporting table          SQLT$_OUTLINE_DATA              10 rows exported
. . exporting table          SQLT$_PLAN_EXTENSION            3 rows exported
. . exporting table          SQLT$_PLAN_INFO                 6 rows exported
. . exporting table          SQLT$_SQL_PLAN_TABLE            3 rows exported
. . exporting table          SQLT$_STATTAB                  17 rows exported
. . exporting table          SQLT$_V$SESSION_FIX_CONTROL     115 rows exported
Export terminated successfully without warnings.

```

```

/usr/bin/ksh: copy: not found
  adding: sqlt_s25909_xplain.log (deflated 75%)
  adding: sqltxhost.log (deflated 80%)
test of sqlt_s25909_log.zip OK
  adding: sqlt_s25909_10053_explain.trc (deflated 82%)
  adding: sqlt_s25909_driver.zip (stored 0%)
  adding: sqlt_s25909_lite.html (deflated 77%)
  adding: sqlt_s25909_log.zip (stored 0%)
  adding: sqlt_s25909_main.html (deflated 86%)
  adding: sqlt_s25909_opatch.zip (stored 0%)
  adding: sqlt_s25909_p2769878751_sqlprof.sql (deflated 52%)
  adding: sqlt_s25909_readme.html (deflated 71%)
  adding: sqlt_s25909_tc.zip (stored 0%)
  adding: sqlt_s25909_trc.zip (stored 0%)
test of sqlt_s25909.zip OK

```

```

Archive:  sqlt_s25909.zip
Length   Date       Time       Name
-----
  462    07-13-11  12:49     script1.sql
 40066   07-13-11  12:51     sqlt_s25909_10053_explain.trc
  2590   07-13-11  12:51     sqlt_s25909_driver.zip
 13780   07-13-11  12:51     sqlt_s25909_lite.html
 12075   07-13-11  12:51     sqlt_s25909_log.zip
 437015  07-13-11  12:51     sqlt_s25909_main.html
  1973   07-13-11  12:51     sqlt_s25909_opatch.zip
  3139   07-13-11  12:51     sqlt_s25909_p2769878751_sqlprof.sql
 12584   07-13-11  12:51     sqlt_s25909_readme.html
100685  07-13-11  12:51     sqlt_s25909_tc.zip
  7456   07-13-11  12:51     sqlt_s25909_trc.zip
-----
631825                               11 files

```

File sqlt_s25909.zip for /u02/orabscs/sqlt/sqlt/input/script1.sql has been created.

```

SQLTXPLAIN completed.
SQL>

```