

*Wouldn't It Be Nice if it
Worked Like That?*
(and then some)

**Some of my experiences with Oracle
that are nothing short of comical.**

*Who can you make fun of if
you can't take it yourself??*



Michael S. Abbey

SQL*Reportwriter

- Flagship reporting tool for many many years
- Table supported in the data dictionary
- Objects clustered like many other data dictionary tables
- Move to de-cluster began ~ 1991
- Part of first level tables to be moved out of cluster



Michael S. Abbey

SQL*Reportwriter

Upgrade from 6.0.32 to 6.0.33 ...

One moment please ...

Updating SQL*Reportwriter executables ...

Initialising sequences ...

De-clustering sqlreportwriter tables ...

. 3 to 4 minutes



SQL*Reportwriter

Upgrade from 6.0.37 to 7.0.12 ...

One moment please ...

Updating SQL*Reportwriter executables ...

Initialising sequences ...

De-clustering sqlreportwriter tables ...

. 3 to 4 minutes



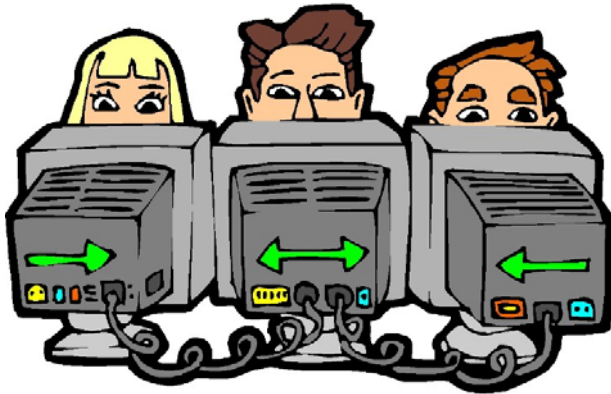
SQL*Reportwriter



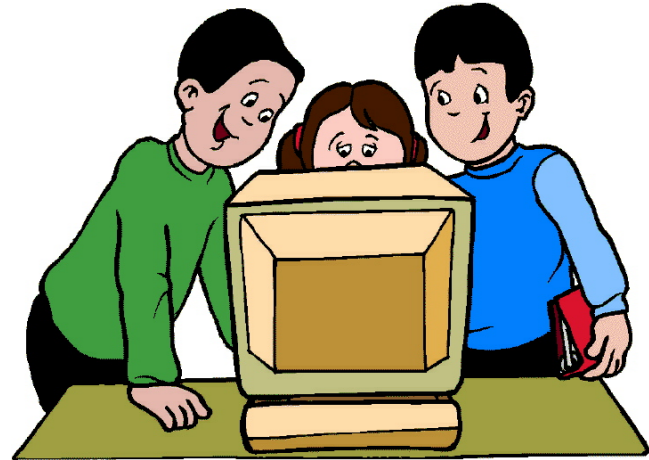
```
for i in ...  
do  
    echo ' . \c'  
    i = $((i+1))  
    sleep 2  
done
```



The downgrade upgrade



*VAX cluster
running 6.2*



*Rest of the world
running 6.0.32*

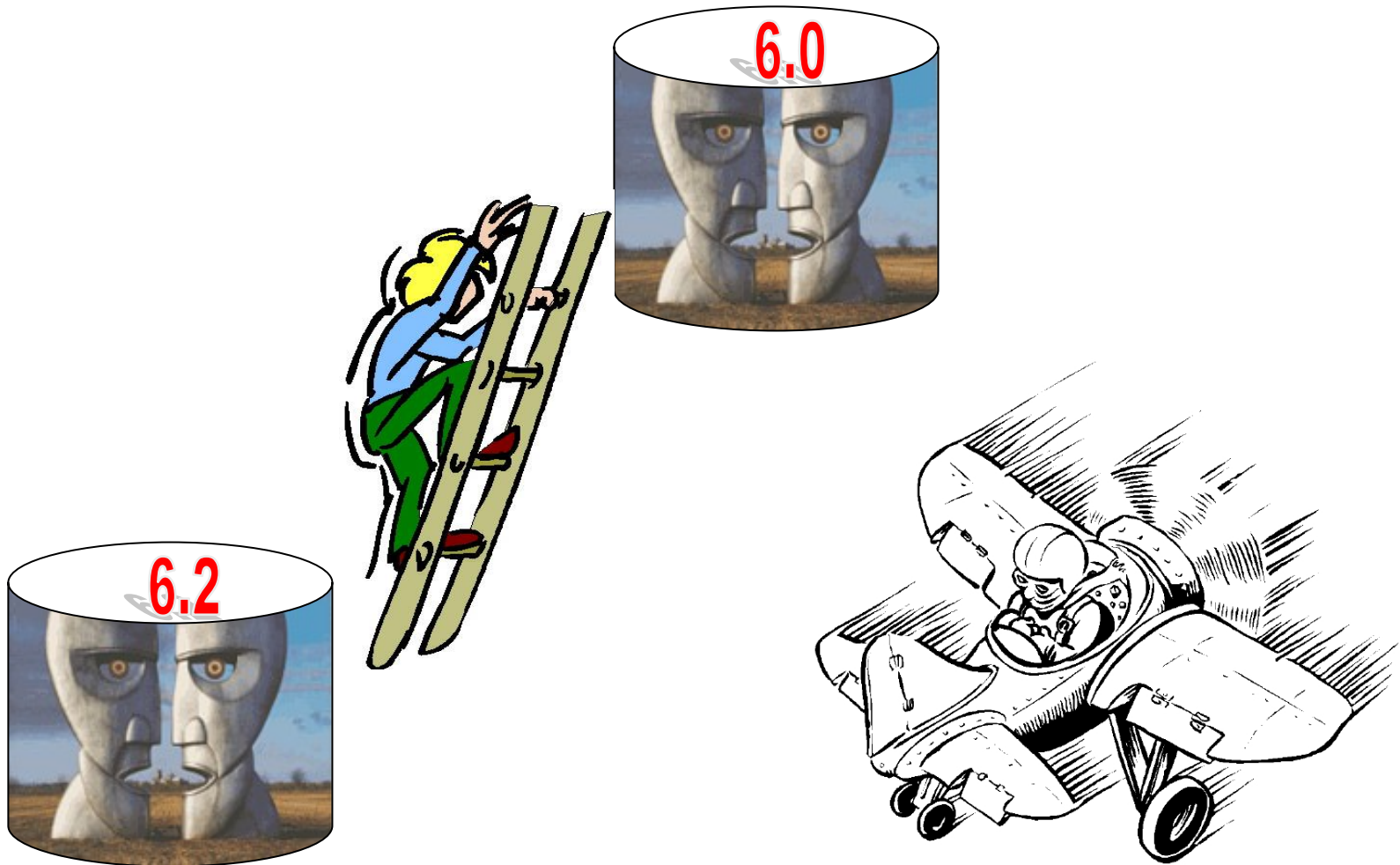


The downgrade upgrade

- 6.0.33 married the VAX cluster version with the rest of the installs
- Landmark release of V6
- Oracle and Digital agreed not to fight over locks
- Distributed lock manager



The downgrade upgrade



Michael S. Abbey

Management committee

Larry

Terry

Derry

Gerry

Barry

Jeff



Michael S. Abbey



EOUG 1993



- UKOUG event in basement of a medieval castle
- place was full to capacity
- Oracle VIP shows up
- I think it's quite appropriate that when the Chairman of a relational database company, Jim Abrahamson, walks into a room, that ...

staff starts altering tables!



Michael S. Abbey

Logging a TAR

VIPS

ORACLE MetaLink

My Headlines
Top Tech Docs
Forums
User Profile
Certify & Availability
Patches
TARs
Bugs
News & Events
E-Business 11i

Feedback Site Map

TARs (Technical Assistance Requests) Help

TAR Search Create a TAR Management Reports

*Product: Oracle Server - Enterprise Edition
Expand the product list

*Product Version: 9.2.0.2.0

*Platform: Solaris Operating System (SPARC) (64-bit)

*Operating System Version: 5.9

*Database: 9.2.0.2.0

User Profile Internet

Logging a TAR

Metalink 2.0 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Copy Paste Stop Refresh Home Favorites Media

Address http://metalink.oracle.com/metalink/plsql/ml2_gui.startup Go Links »

Google Search Web I'm Feeling Lucky News Highlight

ORACLE MetaLink

My Headlines
Top Tech Docs
Forums
User Profile
Certify & Availability
Patches
TARs
Bugs
News & Events
E-Business 11i

Feedback Site Map

TARs (Technical Assistance Requests) Help

TAR Search Create a TAR Management Reports

Brief subject statement (80 characters), in English, summarizing your problem/request:

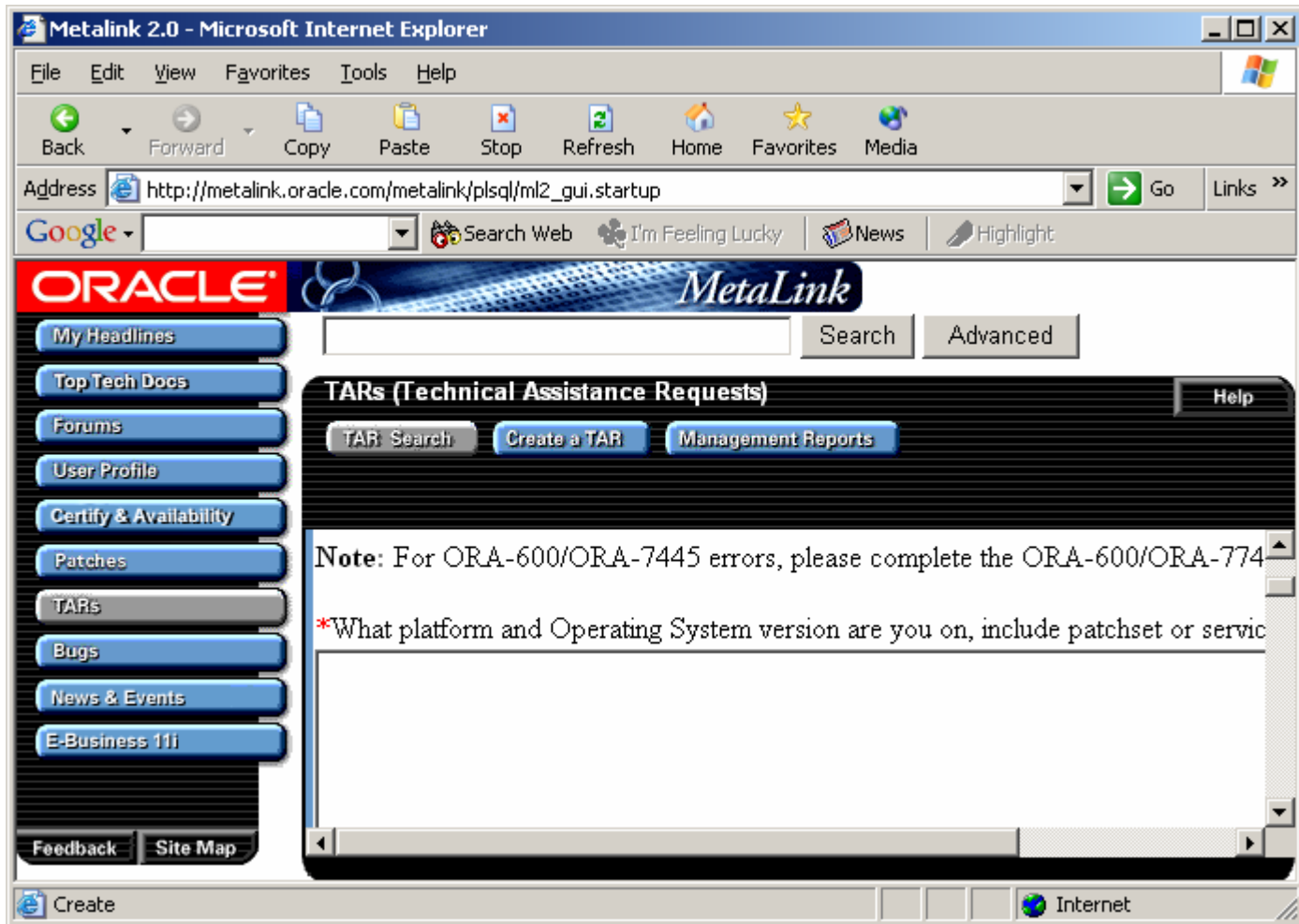
Standby rebuild

*I will enter the text of this TAR in English: Yes

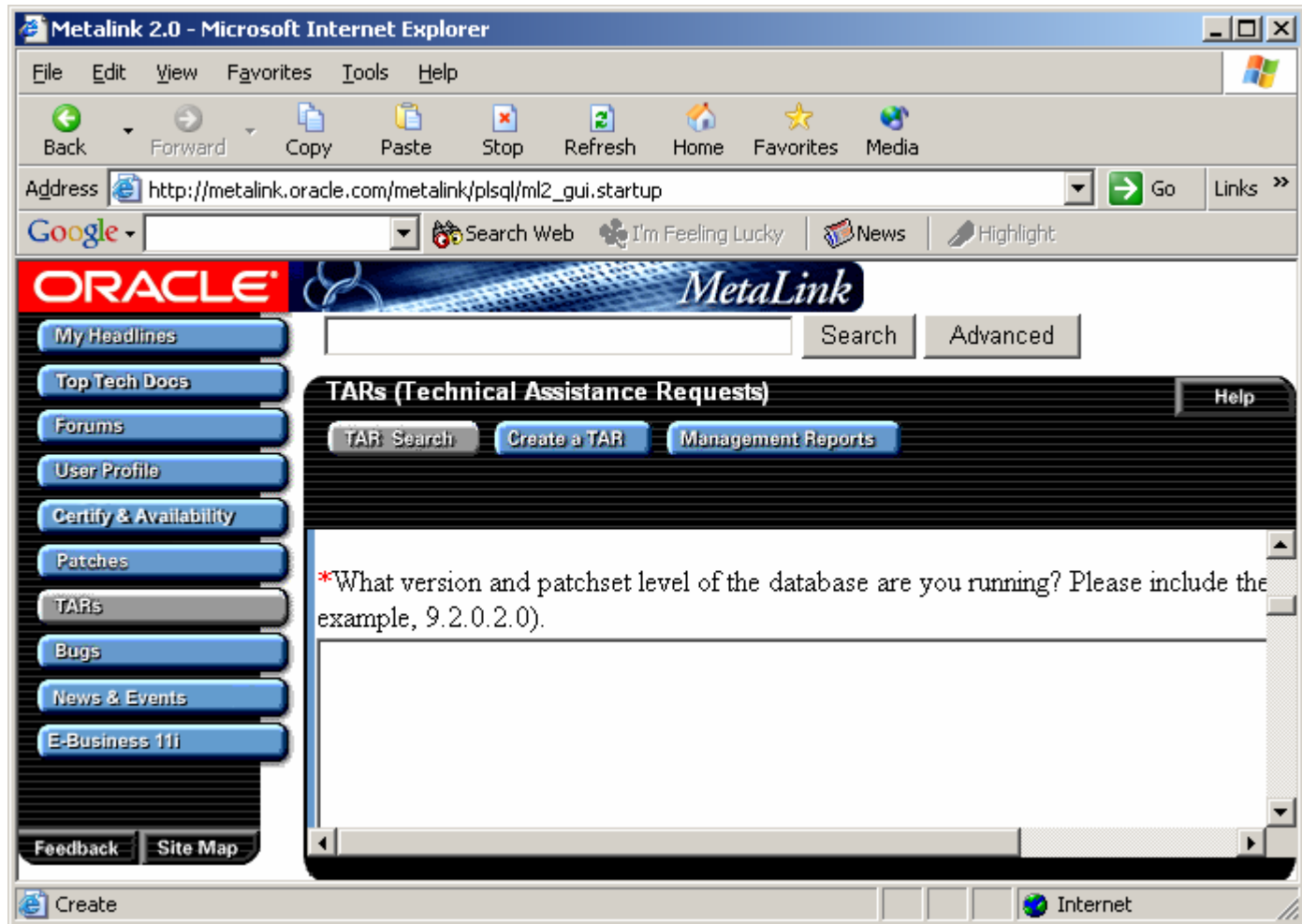
Report Internet



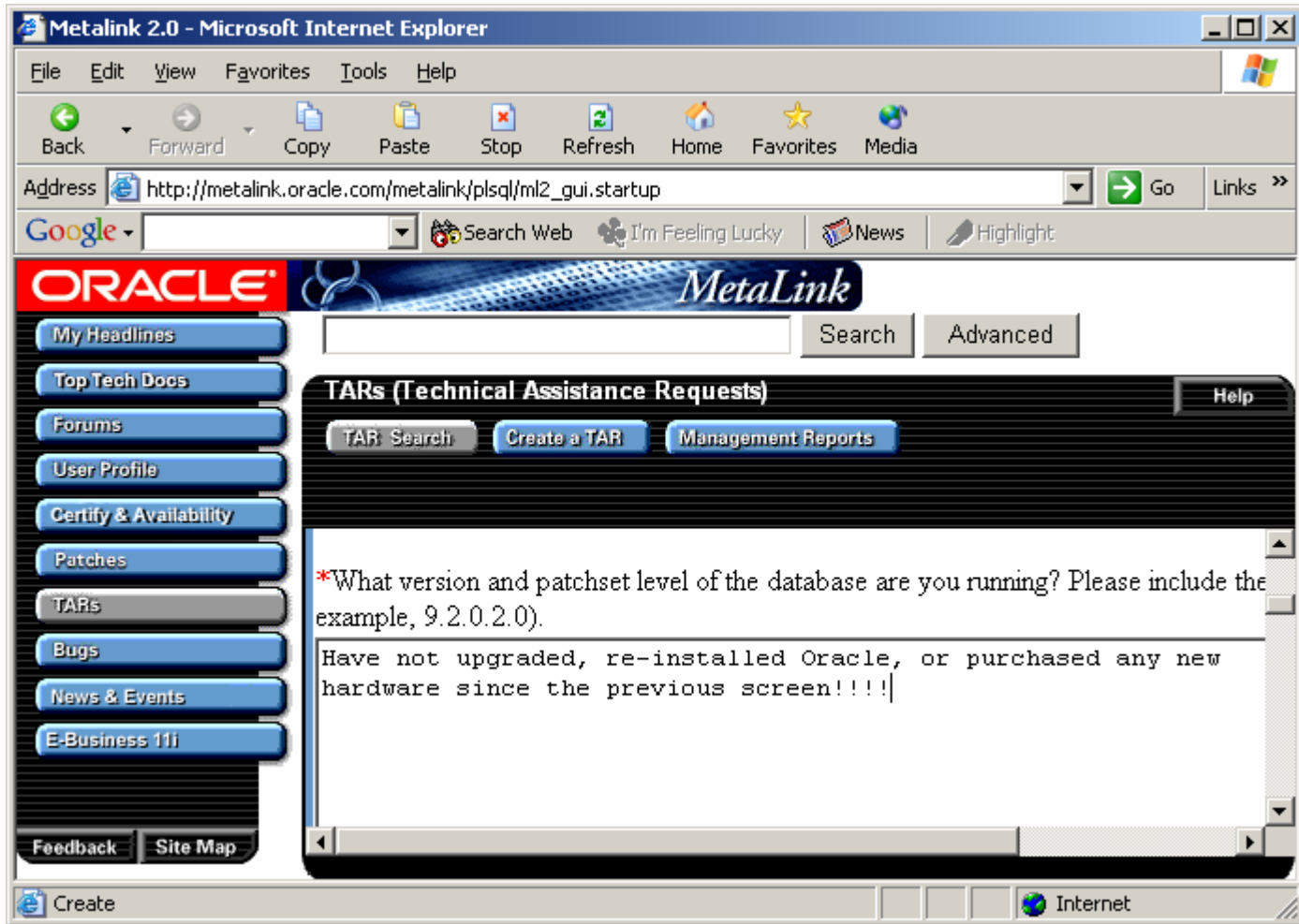
Logging a TAR



Logging a TAR



Logging a TAR



Logging a TAR (pre *i*TAR)

- call support
- what's your CSI
 - your name
 - your fax number
 - your phone number
 - your O/S version
 - your database version
- ½ hour later → you have a TAR!!



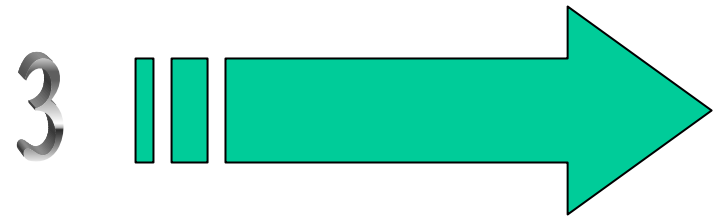
Logging a TAR (pre *i*TAR)

- call support
- what's your CSI
 - your name
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Logging a TAR (pre *i*TAR)

- call support
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Logging a TAR (pre *i*TAR)

- call support
- what's your CSI
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Logging a TAR (pre *i*TAR)

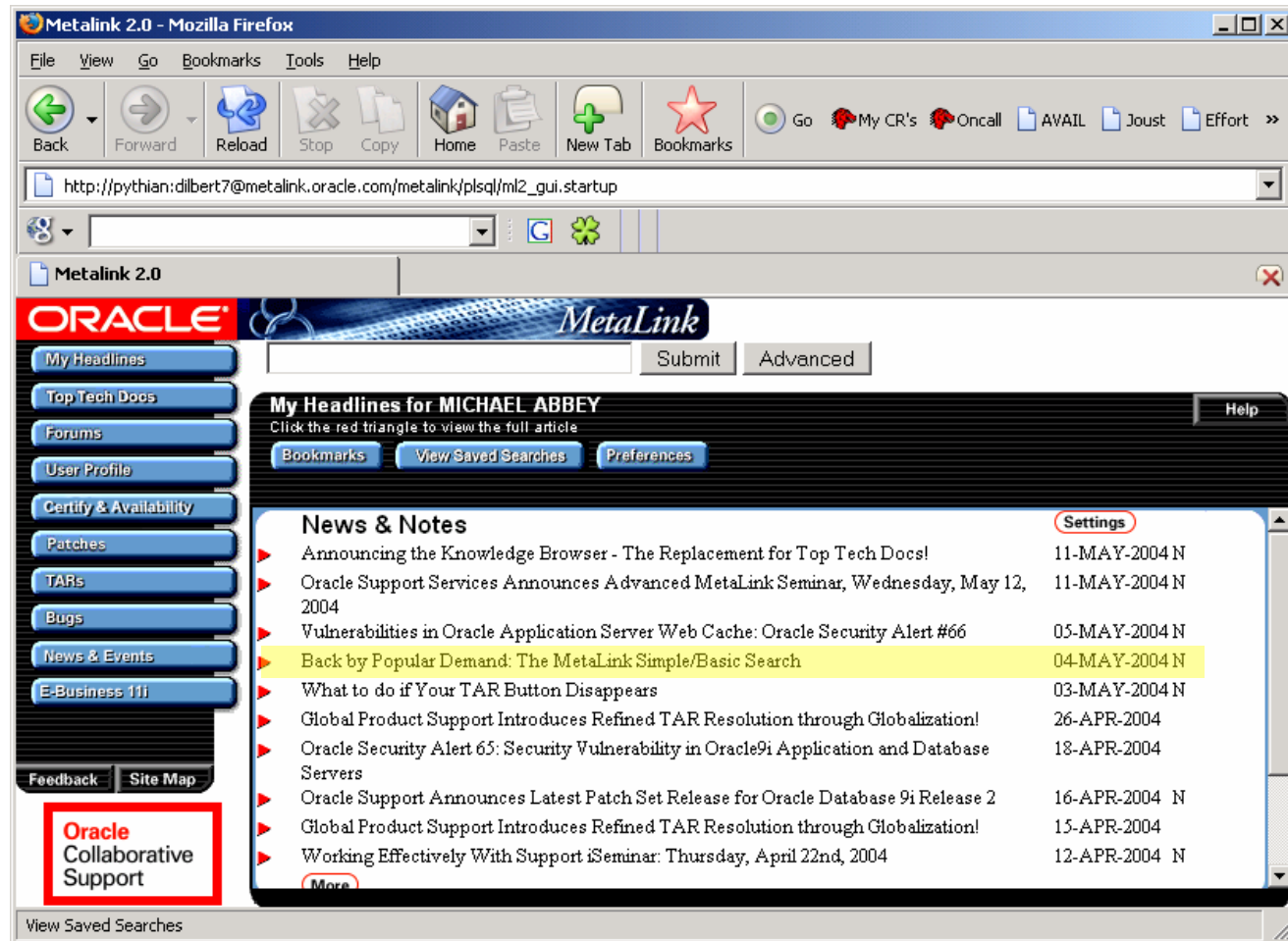
Why not place a



*database underneath your
TAR intake process ...*



If it Ain't Broken, Don't Fix It



Michael S. Abbey

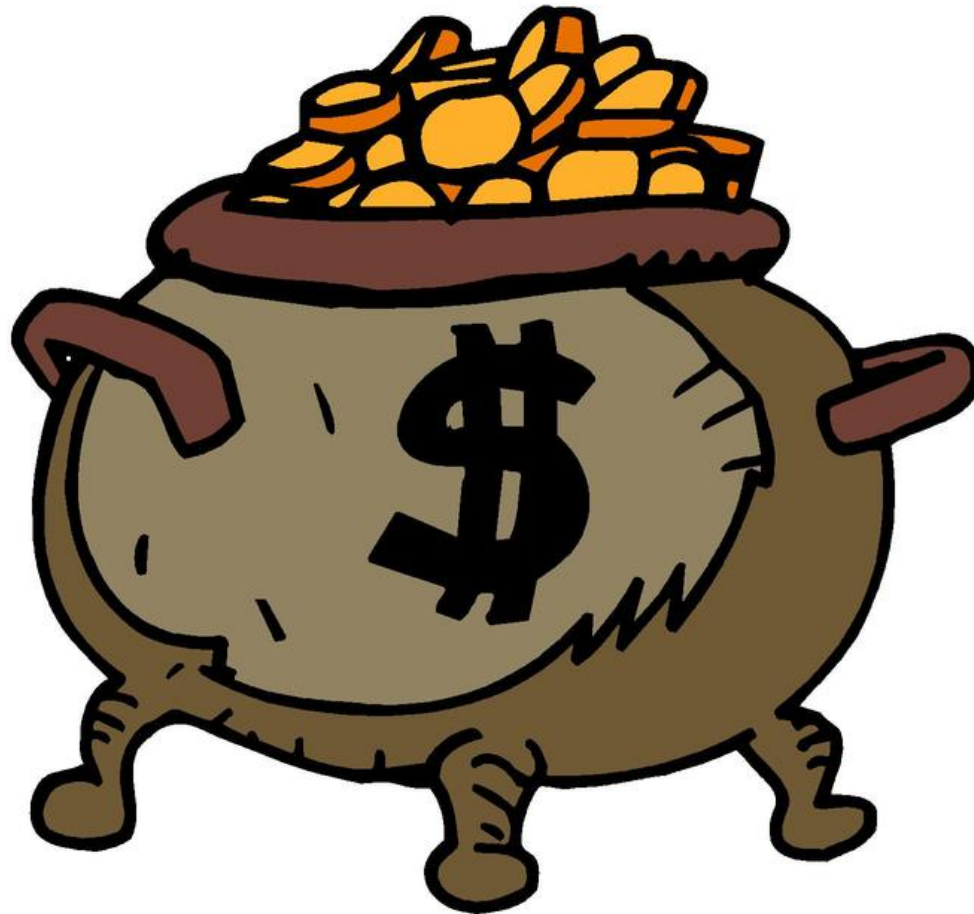
sqlplus internal

If you put a nickel in a jar everytime you tried this

with Oracle9, you would have one of these ...



Michael S. Abbey



Michael S. Abbey



SQL*Plus and Server Manager

**F
a
c
t**

They are now completely compatible with one another and you should stop using Server Manager.



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SQL*Plus and Server Manager

```
SVRMGR> select *  
2>  
3> from dual;
```

```
D  
-  
X  
1 row selected.  
SVRMGR>
```

VS.

```
SQL> select *  
2  
SQL> from dual;  
SP2-0042: unknown command "from  
dual" - rest of line  
ignored.  
SQL>
```



SQL*Plus and Server Manager

**F
a
c
t**

Now that Oracle has plugged the last remaining difference between Server Manager and SQL*Plus, you should stop using the former.



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SQL*Plus and Server Manager

```
SQL> set sqlbl on
```

```
SQL> select *
```

```
2
```

```
3 from dual;
```

```
D
```

```
-
```

```
X
```

```
SQL>
```



SQL*Plus admin scripts

```
SQL> alter tablespace gl add datafile
      2      '/oradata/prod/gl&seq..dbf'
      3      size 1200m;
```

Enter value for seq: 04

old 2: '/oradata/prod/gl&seq..dbf'

new 2: '/oradata/prod/gl04.dbf'

. . .

. . .

. . .

FILE NAME

' /oradata/prod/gl01.dbf '

' /oradata/prod/gl02.dbf '

' /oradata/prod/gl03.dbf '

' /oradata/prod/gl04.dbf '



svrmgrl admin scripts

```
SQL> alter tablespace gl add datafile
      2      '/oradata/prod/gl&seq..dbf'
      3      size 1200m;

. . .
. . .
. . .
FILE NAME
-----
'/oradata/prod/gl01.dbf'
'/oradata/prod/gl02.dbf'
'/oradata/prod/gl03.dbf'
'/oradata/prod/gl&seq..dbf'
```



SQL*Plus and autotrace

F
a
c
t

The trace option with *set autotrace only* instructs oracle to display an execution plan for SQL statements but not execute them.



SQL*Plus and autotrace

```
SQL> set autot trace
```

```
SQL> select * from test_trace;
```

← *no output*

6 rows selected.

Execution Plan

```
-----  
      0          SELECT STATEMENT Optimizer=CHOOSE  
      1      0      TABLE ACCESS (FULL) OF 'TEST_TRACE'
```

Statistics

```
-----  
          0  recursive calls  
          4  db block gets  
          .  
          .  
          .  
          6  rows processed
```



SQL*Plus and autotrace

```
SQL> delete test_trace;
```

```
6 rows deleted.
```

Execution Plan

```
-----  
      0      DELETE STATEMENT Optimizer=CHOOSE  
      1      0      DELETE OF 'TEST_TRACE'  
      2      1      TABLE ACCESS (FULL) OF 'TEST_TRACE'
```

Statistics

```
-----  
          0  recursive calls  
         10  db block gets
```

```
...
```

```
          6  rows processed
```



SQL*Plus and autotrace

```
SQL> select * from test_trace;  
no rows selected
```



Import with *ignore=y*

F
a
c
t

If you specify IGNORE=y, import overlooks object creation errors when it attempts to create database objects, and continues without reporting the errors



Import with *ignore=y*

IMP-00017: following statement failed with
ORACLE error 2264:

```
"ALTER TABLE "CUSTOMER" ADD CONSTRAINT  
"CUSTOMER_FK1" FOREIGN KEY "  
" ("STATE_ID") REFERENCES "STATE"  
("STATE_ID") ON DELETE CASCADE "  
"ENABLE NOVALIDATE"
```

IMP-00003: ORACLE error 2264 encountered
ORA-02264: name already used by an existing
constraint



Changing character sets

Oracle8(i) introduces a new documented method of changing the database and national character sets.

The method uses two SQL statements, which are described in the Oracle8i National Language Support Guide.

**F
a
c
t**



Changing character sets

```
ALTER DATABASE [<db_name>] CHARACTER SET  
<new_character_set>;
```

```
ALTER DATABASE [<db_name>] NATIONAL CHARACTER  
SET <new_NCHAR_character_set>;
```

```
SQL> alter database character set we8dec;
```

```
*
```

```
ERROR at line 1:
```

```
ORA-01679: database must be mounted EXCLUSIVE and not open to  
activate
```



Changing character sets

```
startup mount;  
alter system enable restricted session;  
alter system set job_queue_processes = 0;  
alter system set aq_tm_processes = 0;  
alter database open;  
alter database character set <NEW_CHARACTER_SET>;  
shutdown immediate;  
startup restrict;
```



Monitoring index usage (9i)

**F
a
c
t**

The black hole is finally closed
... what indexes are being
used? Which are candidates
for dropping?



Monitoring index usage (9i)

```
SQL> alter index user1.prod_pk monitoring usage;
```

```
Index altered.
```

```
SQL> alter index user1.cust_pk monitoring usage;
```

```
Index altered.
```

```
. . .
```

```
. . .
```

```
SQL> alter system set timed_statistics = true;
```

```
System altered.
```



Monitoring index usage (9i)

```
SQL> connect / as sysdba
```

```
Connected.
```

```
SQL> !date
```

```
Thu Mar 20 10:42:01 EST 2003
```

```
SQL> select count(*) from v$object_usage;  
COUNT(*)
```

```
-----
```

```
0
```

```
SQL> !date
```

```
Sun Mar 23 07:11:28 EST 2003
```

```
SQL> select count(*) from v$object_usage;  
COUNT(*)
```

```
-----
```

```
0
```



Monitoring index usage (9i)

```
SQL> connect owner/of_index
Connected.
SQL> !date
Sun Mar 23 10:54:54 EST 2003
SQL> select count(*) from v$object_usage;
      COUNT(*)
-----
          3412
```

Must query as owner of indexes!!



Monitoring index usage (9i)

- Information in *v\$object_usage* is questionable
- *DBMS_STATS* activity counts as index usage
- Erroneously appear as in use when may have not been touched for days!



Errors compiling stored objects

```
SQL> alter package PROD."MAINT_PKG" compile body;
```

```
Warning: Package Body altered with compilation errors.
```

```
SQL> sho errors
```

```
No errors.
```

```
SQL> sho errors package body maint_pkg
```

```
No errors.
```

```
SQL> sho errors maint_pkg
```

```
Usage: SHOW ERRORS [{ FUNCTION | PROCEDURE | PACKAGE |  
    PACKAGE BODY | TRIGGER | VIEW  
    | TYPE | TYPE BODY  
    | JAVA SOURCE | JAVA CLASS } [schema.]name]
```



oraenv

```
oracle@dsotm.pink.floyd-->(mls)  
/usr/users/oracle> . oraenv  
ORACLE_HOME = [/usr/users/oracle] ?
```

```
oracle@dsotm.pink.floyd->(mls)  
/usr/users/oracle> export ORAENV_ASK=NO
```

```
oracle@dsotm.pink.floyd-->(mls)  
/usr/users/oracle> . oraenv  
ORACLE_HOME = [/usr/users/oracle] ?
```

```
oracle@dsotm.pink.floyd-->(mls)  
/usr/users/oracle>
```



Rdb

The screenshot shows the Metalink 2.0 website in Microsoft Internet Explorer. The address bar displays http://metalink.oracle.com/metalink/plsql/ml2_gui.startup. The search bar contains the text "rollback segment full". The search results are displayed in a table format.

Query Result

Entries found: 200 Showing: 100 Ordered by : Score Direction: Descending

1.	<u>RDBPROD Oracle Rdb7 for OpenVMS Release Notes Release 7.0.6:</u> Type: Note Score: 100% Status: PUBLISHED Platform: Digital VAX OpenVMS	Doc ID: 232830.1 Modified Date: 18-MAR-2003 Product: Oracle Rdb Server on OpenVMS
2.	<u>Oracle Rdb V7.1.0.5 Release Notes (Optimized for Alpha EV56 Processor)</u> Type: Note Score: 100% Status: PUBLISHED Platform: Digital Alpha OpenVMS	Doc ID: 222603.1 Modified Date: 05-DEC-2002 Product: Oracle Rdb Server on OpenVMS
3.	<u>Oracle Rdb Release 7.1.0.4 Release Notes</u> Type: Note Score: 100% Status: PUBLISHED Platform: Digital Alpha OpenVMS	Doc ID: 222516.1 Modified Date: 05-DEC-2002 Product: Oracle Rdb Server on OpenVMS
4.	<u>RDBPROD Oracle(R) Rdb7 for OpenVMS Release Notes - Release 7.0.6.5:</u> Type: Note Score: 100% Status: PUBLISHED Platform: VMS Generic issue	Doc ID: 211534.1 Modified Date: 20-SEP-2002 Product: Oracle Rdb Server on OpenVMS
5.	<u>9.0.1.X Patch Sets - List of Bug Fixes by Problem Type</u> Type: Note	Doc ID: 156751.1

Rdb

ORACLE *MetaLink*

rollback segment full

Query Result Help

Entries found: 200 Showing: 100 Ordered by : Score Direction: Descending

1. **RDBPROD Oracle Rdb7 for OpenVMS Release Notes Release 7.0.6:**
 Type: Note Doc ID: 232830.1
 Score: 100% Modified Date: 18-MAR-2003
 Status: PUBLISHED Platform: Digital VAX OpenVMS Product: Oracle Rdb Server on OpenVMS
2. **Oracle Rdb V7.1.0.5 Release Notes (Optimized for Alpha EV56 Processor)**
 Type: Note Doc ID: 222603.1
 Score: 100% Modified Date: 05-DEC-2002
 Status: PUBLISHED Platform: Digital Alpha OpenVMS Product: Oracle Rdb Server on OpenVMS
3. **Oracle Rdb Release 7.1.0.4 Release Notes**
 Type: Note Doc ID: 222516.1
 Score: 100% Modified Date: 05-DEC-2002
 Status: PUBLISHED Platform: Digital Alpha OpenVMS Product: Oracle Rdb Server on OpenVMS
4. **RDBPROD Oracle(R) Rdb7 for OpenVMS Release Notes - Release 7.0.6.5:**
 Type: Note Doc ID: 211534.1
 Score: 100% Modified Date: 20-SEP-2002
 Status: PUBLISHED Platform: VMS Generic issue Product: Oracle Rdb Server on OpenVMS
5. **9.0.1.X Patch Sets - List of Bug Fixes by Problem Type**
 Type: Note Doc ID: 156751.1



Secure account passwords

*We adhere to a very
strict policy with the
secure database
passwords, not limited to
SYS and SYSTEM.*



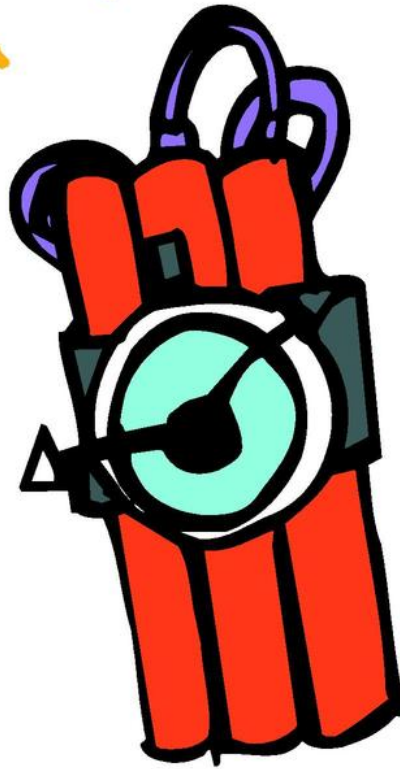
Michael S. Abbey

Secure account passwords

gl/gl

ar/ar

ap/ap



hr/hr

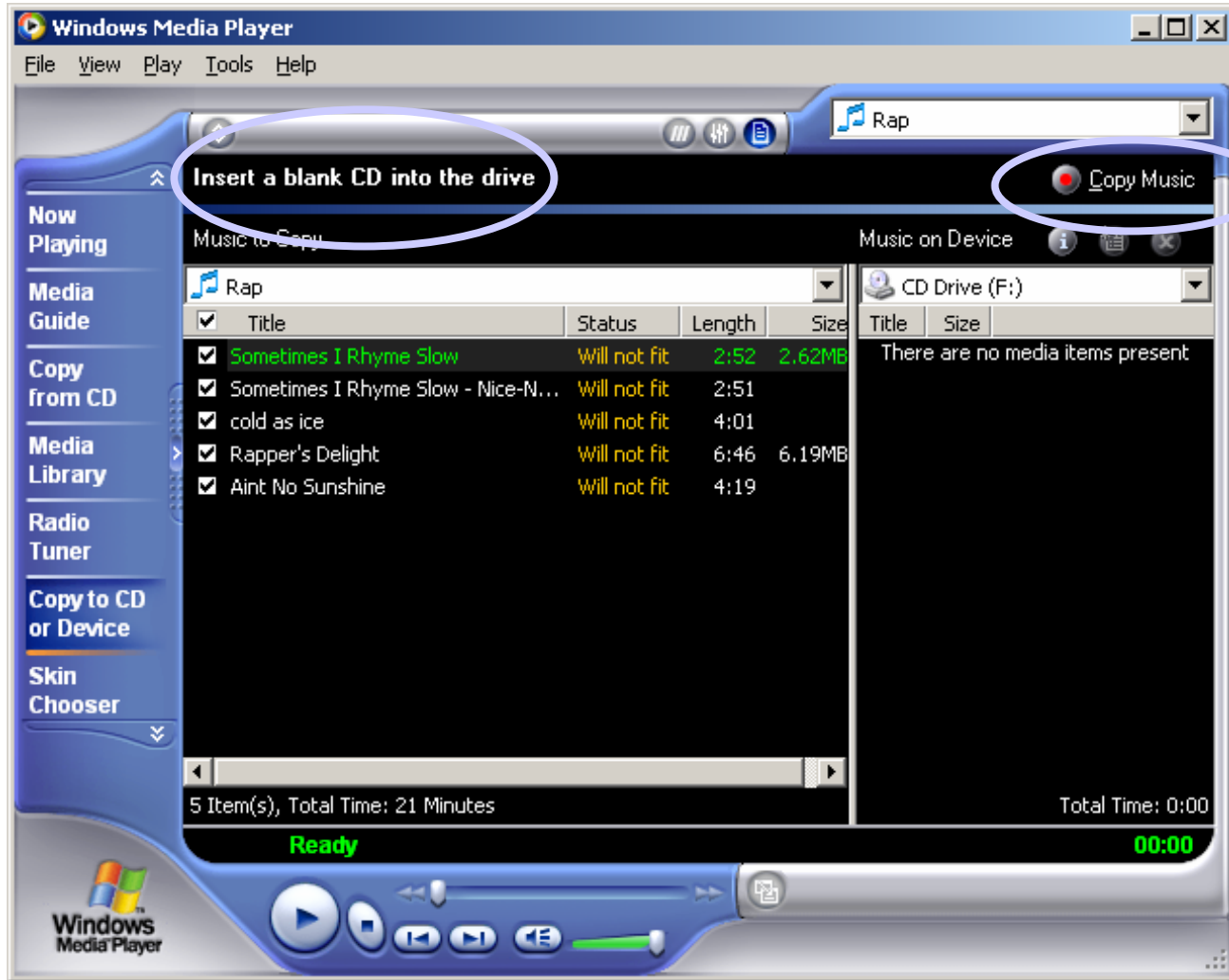


Vendors' behaviour

**Do as we say,
not as we do ...**



Vendors' behaviour



Vendors' behaviour



Please do not make illegal copies of our software, but if you want to copy someone else's, this will assist you!



Michael S. Abbey

8i — circa 1998

9i — circa 2001

10g — circa 2003



The new release ...

It's actually both "g" and "i"



Michael S. Abbey

Was grid computing responsible for the August 14 blackout?

BREAKING NEWS

POSTED AT 7:16 PM EDT

Friday, Aug. 15, 2003

Investigation focused on grid around Lake Erie



Manhattan sunset 14/08/2003



Michael S. Abbey