



# News Letter

*DBA Online – On the front line of database administration  
DBA Online powers Oracle DBA*

**DBA Online**

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## Summary of April's Seminar

Time yet again, American DBA Online held an extremely successful technical seminar on April 06, 2002 at the Hilton hotel in Woodbridge, NJ. The seminar was attended by over 250 Oracle DBAs from various industries and companies in the tri-state area.

This seminar was composed of five presentations given by the industry experts and covered the following subject areas: commercially off-the-shelf tools for Oracle DBAs, opportunities and challenges for the China software industry, server high availability and Oracle 9i new features. The presentations were arranged in such a way that they were well balanced with highly technical and relatively less technical topics. The audiences enjoyed the presentations and the get-togethers with their old and new friends during breaks.

The first presentation was given by Mr. Louis Pulido from BMC Software. He demonstrated the BMC Enterprise tools for Oracle DBAs including Patrol for Oracle, Space Expert, Patrol DBXray and WebDBA. He showed how effective these tools are and yet how easy and user-friendly they are to use. While we are on the tools topic, Mr. David Wang from YoungTech, Inc. demonstrated their

company's product line: DBA\*Plus Online, DBA\*Plus Manager and DBA\*Plus Wireless. They were very proud of and the audiences were impressed by the DBA\*Plus Wireless product which empowers Oracle DBAs to administer their databases anywhere, anytime.

In order to minimize IT costs, many US corporations have started or are in the process of evaluating the offshore solutions. Some Asian countries, such as China and India, are considered the prime providers of such offshore services. Youngtech, Inc. headquartered in Edison, NJ is an active player of the China offshore market. Youngtech's vice president of marketing and sales, Mr. Bob Nylund, introduced his company to the audience. The founder, Chairman and CEO of Youngtech, Inc. – Mr. John Yeung presented his research results and findings of the current market conditions and resources of China and India, and made insightful comparisons of these two major markets. He also elaborated on the opportunities and challenges of the China software industry, especially with China's recent entry into WTO.

Mr. Brian Gao from Qwest Communications made an overview of the high availability/cluster technologies. This highly technical topic was made so easy to understand by Brian due to his expertise in this area and his extensive teaching experiences. Brian also teaches Unix administration classes part-time at ICT.

Last but not the least, the president of American DBA Online – Mr. David Wang made a presentation on the Oracle9i new features and functionalities for DBAs. With his expertise in this technical area and his "Gold Medal" teaching experience, David's presentation was concise yet very illustrative. In his personal opinion, Data Guard and Real Application Cluster (RAC) are considered the two breakthrough features of Oracle9i.

The four and half hours passed by so quickly and unnoticeably. The audiences' interest didn't abate until the end of the seminar. They continued on with the Q & A session with the speakers and amongst themselves. They expressed that it was more than worthwhile to attend such a technical seminar on a Saturday afternoon. This speaks volumes about their dedication to both the organization and the improvement of their careers.

The next DBA Online seminar is tentatively scheduled for June 15, 2002. We look forwarding to seeing you all there soon.



## Message from the President



Dear DBAOnline members,

I would like to express my utmost gratitude to those of you who attended our seminar on April 6th, at the Woodbridge Hilton. I want to thank Youngtech and BMC software for their sponsorship to this seminar, thank Louis Pulido, Brian Gao for their wonderful technical presentations and thank DBAOnline committee members, Wei Tang, April Cai, Guoping Wan, Dong Li, Carol Sheng and Henry Yang, etc. for their endless work to make this event possible.

For those of you who were not fortunate enough to attend, and as a reminder to those of you who were in attendance, I would like to take a moment to bring you up to date with a couple of exciting announcements that took place. Youngtech, Incorporated, one of the American DBA Online sponsors, made two significant contributions to our organization. John Yeung, Youngtech's Chairman and CEO, was pleased to reward all current members with a "free" one year renewal for your membership to American DBA Online. The funding for this generous donation will be fully covered by Youngtech, Inc.

Several minutes after my demonstration of the new DBA\*Plus Wireless product, a tool that will allow DBA's to monitor, manage and troubleshoot your databases anywhere anytime, John offered another suggestion. John and I agreed that any current member and their company that contracts with Youngtech to implement the use of our DBA\*Plus Wireless product will receive the software at a full 50% off the current list price. One has to wonder, "Was John's decision influenced by the 'frenzy' that occurred while he was distributing a free trial CD version of the DBA\*Plus Manager 7.0". We quickly came to the conclusion that 25 copies of the software were not enough. A reminder to you folks that did not get a copy, the CD Rom that was distributed at the seminar is available as a free download from Youngtech's website.

I think we all would agree that a special "thanks" should go out to John Yeung and Youngtech.

David Wang  
President of American DBAOnline  
April. 10, 2002



## **Thanks from Bob Nylund**

American DBA Online Members:

The management team from Youngtech, Inc. would like to take a moment to thank all of you for attending the American DBA Online seminar that was held on April 6th, 2002 at the Hilton hotel in Woodbridge, N.J.

David Wang, John Yeung and I are convinced that attending this function on a Saturday afternoon speaks volumes about your dedication to both the organization, and the improvement of your careers, which includes expanding your personal knowledge of Oracle products. Youngtech was extremely pleased to have the opportunity to introduce our company, its directors and our new DBA\*Plus product line to the organization's members. For those of you that were fortunate enough to see David's demonstration of the DBA\*Wireless product, we are excited about this new product that will allow DBA's and other people with database management positions the "luxury" to monitor, manage and troubleshoot "mission-critical" databases on-the-go. To receive more information about Youngtech's products and services, including David's line of DBA\*Plus management tools, or perhaps would like to schedule an appointment to have us demonstrate the product, do not hesitate to call David, John or me directly at: (732) 650-1618.

For more information, please visit our website: [www.youngtech.com](http://www.youngtech.com)

To the ladies and gentlemen I had the pleasure of meeting personally, I would like to say, "Thank you!" Youngtech was very pleased with both our sponsors, and the showing of the American DBA Online members' support. We are looking forward to the next meeting.

Thank You.

Sincerely,

Bob Nylund  
Vice President / Sales & Marketing  
Youngtech, Inc.



## Couple of Oracle9i New Features

### 1. What is SPFILE ?

- SPFILE (Server Parameter File) is a small binary file located on database server
- SPFILE make parameter values persistence across shutdown and startup
- Start the instance remotely without requiring a local parameter file copy
- Create SPFILE:  
CREATE SPFILE '...' FROM PFILE '...'
- Default location: \$ORACLE\_HOME/dbs
- File name: spfile<instance>.ora
- Change parameter online:  
ALTER SYSTEM SET ... = ... SCOPE=<MEMORY,SPFILE,BOTH>

### 2. Dynamic SGA

- Set the parameters in Init.ora file  
SGA\_MAX\_SIZE = 300M  
DB\_CACHE\_SIZE = 200M  
SHARED\_POOL\_SIZE = 100M
- Check v\$Buffer\_Pool
- Change the parameter online  
ALTER SYSTEM SET SHARED\_POOL\_SIZE=120M;  
Got error message (insufficient memory)  
ALTER SYSTEM SET DB\_CACHE\_SIZE=150M;  
ALTER SYSTEM SET SHARED\_POOL\_SIZE=120M;  
Statement Processed

### 3. WITH Clause

Using the WITH clause, you can reuse the same query block in a complex query

```
WITH dept_summary as (  
  Select d.dname, sum(e.salary) as dept_total  
  From emp e, dept d  
  Where e.dept_id = d.dept_id  
  Group by d.name)  
Select dname, dept_total  
From dept_summary
```

```
Where dept_total >
      (select sum(dept_total) * 0.1
       from dept_summary)
Order by dept_total desc;
```

#### 4. Metadata API

- A New Package, DBMS\_METADATA, is introduced  

```
SQL> SELECT DBMS_METADATA.GET_DDL('TABLE','EMP')
      FROM DUAL;
```
- OUTPUT is in SQL or XML format
- Can have a WHERE clause

#### 5. Online Table Redefinition Features

- Non-partitioned table can be convert to partitioned table and vice verse
- Heap based table can convert to IOT table and vice verse
- Non-primary key columns can be dropped
- New columns can be added to a table
- Parallel support can be added or removed
- Storage parameters can be modified
- A column can be renamed
- Online Table Redefinition Syntax  
Reorganize large heavily-used table:
  1. Dbms\_redefinition.can\_redef\_table
  2. Create an empty interim table with all the desired characteristics
  3. Dbms\_redefinition.start\_redef\_table
  4. Create any triggers, indexes, or constraints on the interim table
  5. Grant privileges on the interim table
  6. Dbms\_redefinition.finish\_redef\_table

#### 6. UNDO Tablespace

- NO MORE ROLLBACK!
- System managed UNDO (is a tablespace)
- Based on a defined time-frame
- Set up in init.ora file  
Undo\_management = AUTO (or MANUAL)
- View UNDO space usage  
Query V\$UNDOSTAT

#### 7. Oracle Managed File (OMF)

- OMF is automatically created and deleted when a tablespace is created or deleted  

```
ALTER DATABASE ADD LOGFILE;
ALTER TABLESPACE ts_data1 ADD DATAFILE;
```
- Can be defined in create table or tablespace
- Default directory can be dynamically changed  

```
ALTER SYSTEM SET DB_CREATE_FILE_DEST='/oradata/';
```
- Create database as simple as  

```
CREATE DATABASE PTRD;
```