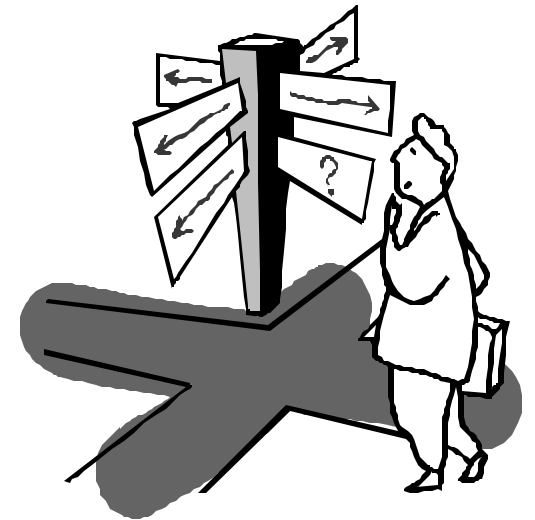# Congratulations! You're the New DBA. Don't Panic!
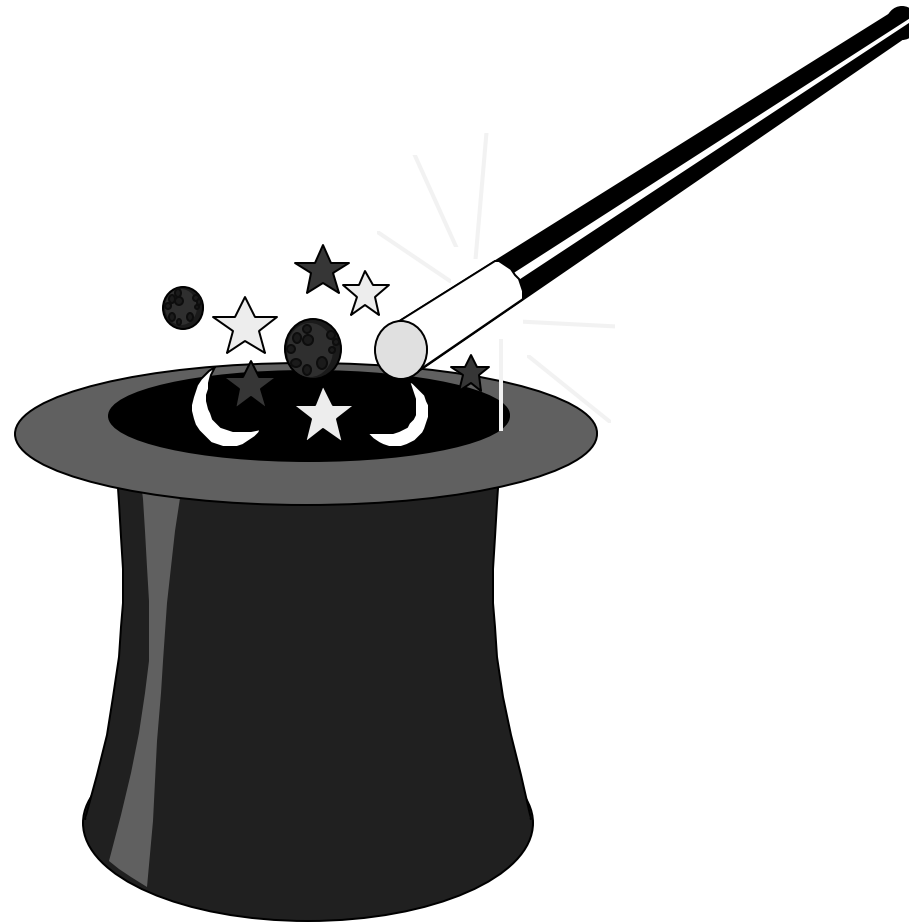
NYOUG

December 5, 2000

Rachel Carmichael

Greg Loughmiller

Congratulations! You're the New DBA. Don't Panic!

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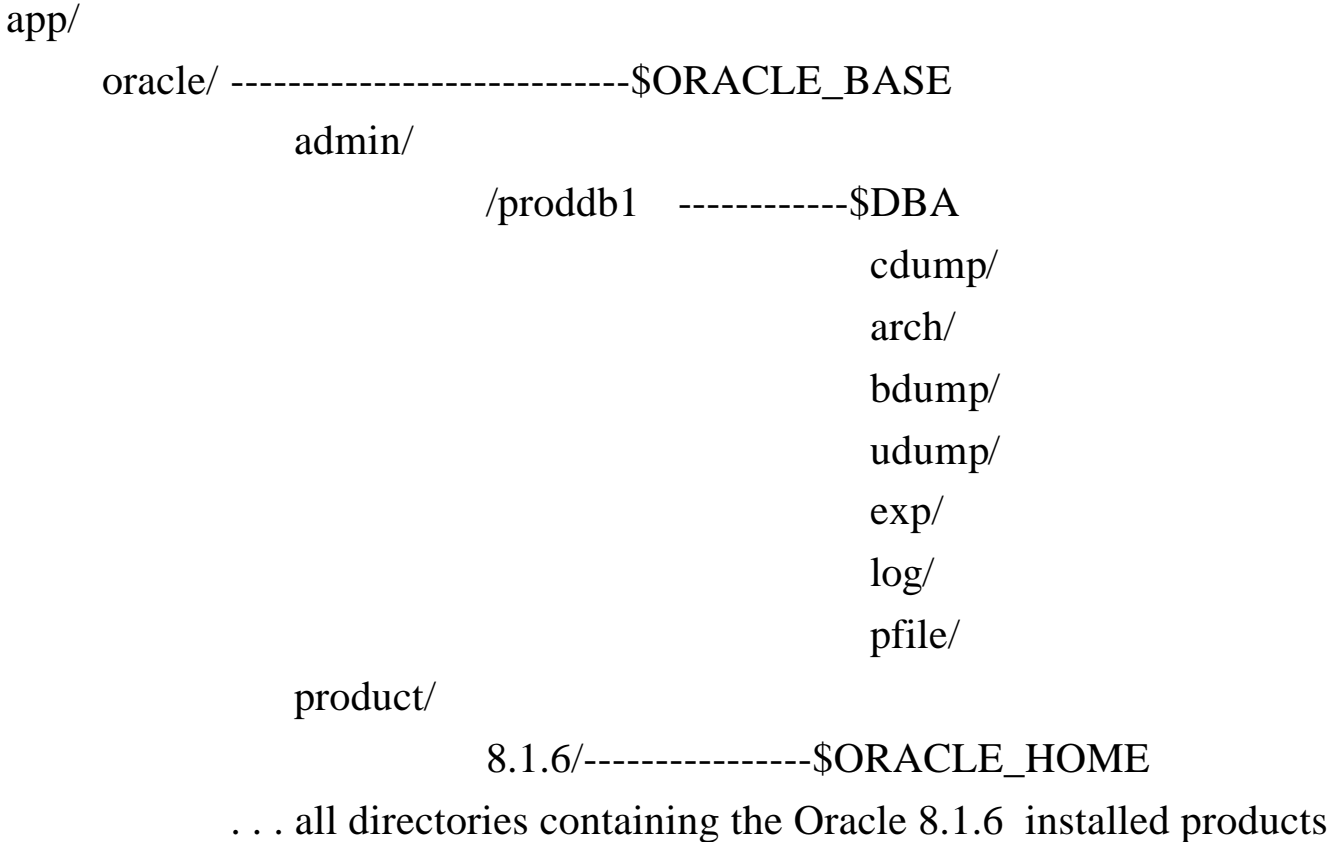
➤ Learning the Environment

☛ Oracle Database

➡ How Many Databases

➡ Which Versions of Oracle

➡ What is OFA and Why Do You Care?

➡ Locations Of the Important Files

✓ Init.ora

✓ Oratab

✓ Listener.ora

✓ Tnsnames.ora

✓ Sqlnet.ora

Congratulations! You're the New DBA. Don't Panic!

➢ What is OFA?

```
/
    app/
        oracle/ ---------------------------$ORACLE_BASE
            admin/
                    /proddb1    -----------$DBA
                                        cdump/
                                        arch/
                                        bdump/
                                        udump/
                                        exp/
                                        log/
                                        pfile/
            product/
                    8.1.6/---------------$ORACLE_HOME
            . . . all directories containing the Oracle 8.1.6  installed products
```

Congratulations! You're the New DBA. Don't Panic!

➢ What is OFA?

```
usr/
    local/
        bin/
                coraenv
                dbhome
                oraenv
                dbstart
                dbshut
                dbswitch
                dbsid
```

Congratulations! You're the New DBA. Don't Panic!

➢ What is OFA?

var/

opt/

    oracle/

        oratab

        listener.ora

        tnsnames.ora

Congratulations! You're the New DBA. Don't Panic!

➤ Learning the Environment continued…

☛ Hardware and Operating System

➲ Which Operating System

➲ OS Parameters That Affect Oracle
- ✓ Shared Memory Segment Size
- ✓ Number of Semaphores

➲ Disks
- ✓ Number and Size
- ✓ Striping

Congratulations! You're the New DBA. Don't Panic!

➢ Learning the Environment continued…

☛ Application

➡ Uptime Requirements
➡ Space Growth Projections
➡ Frequency of Changes

Congratulations! You're the New DBA. Don't Panic!

➢ You Need to Develop Some Strategies

   ☞ Backup and Recovery
- ➡ What kinds of backups
  - ✓ Hot
  - ✓ Cold
  - ✓ Export
- ➡ Standby Database
- ➡ Replication

Congratulations! You're the New DBA. Don't Panic!

➢ You Need to Develop Some Strategies

☞ To Archive or Not To Archive

- ➲ Downtime Available For Backups
- ➲ Point-in-time Recovery Required?

Congratulations! You're the New DBA. Don't Panic!

➢ You Need to Develop Some Strategies

    ☞ When Can I Take the Database Down

        ➲ Planned Maintenance
            ✓ Operating System Upgrades
            ✓ Database Software Upgrades
            ✓ Application Changes

        ➲ Partial Access Possible?

Congratulations! You're the New DBA. Don't Panic!

➢ Daily Procedures

- ☛ Verify All Instances Are Up
- ☛ Check the Alert Logs
- ☛ DBSNMP Processes
- ☛ Verify Backups Were Successful
- ☛ Review All Scheduled Jobs
- ☛ Monitor Archive Log Disks

Congratulations! You're the New DBA. Don't Panic!

➢ Daily Procedures continued…

☛ Monitor Disk Capacity

☛ Remove Unnecessary Files

☛ Monitor Locking

☛ Monitor Extents

➲ Max Extents

➲ Next Extent

☛ Tablespace Usage

Congratulations! You're the New DBA. Don't Panic!

➢ Daily Procedures continued…

☞ Session and User Information

- ➡ Total Sessions
- ➡ Accounts with DBA privilege
- ➡ Total Active Sessions
- ➡ Total Sessions By Account
- ➡ Open Cursors Per Session
- ➡ Statistical Information By Session

Congratulations! You're the New DBA. Don't Panic!

➢ Daily Procedures continued…

☞ Stored Objects
- ➲ Invalid Objects
- ➲ Generated DDL for Stored Objects

☞ Exports
- ➲ Data
- ➲ Database DDL

Congratulations! You're the New DBA. Don't Panic!

➢ Daily Procedures continued…

☞ Overall Database Statistics
- ➲ Basic Performance Scripts
- ➲ Customized Bstat/Estat Scripts
- ➲ Analyzing Database Objects

Congratulations! You're the New DBA. Don't Panic!

➢ Periodic Procedures

☛ Test Backups

☛ Test Recovery Procedures

☛ Reviews With Developers

☛ Educate Yourself

➲ New software features

➲ Bugs and solutions

☛ Review Statistics

Congratulations! You're the New DBA. Don't Panic!

➢ Websites

- ☛ technet.oracle.com
- ☛ www.oracle.com/support
- ☛ www.lonyx.com
- ☛ www.ixora.com.au
- ☛ www.lazydba.com

➢ Email Lists

- ☛ Oracle-L (send email to ListGuru@fatcity.com, with subscribe ORACLE-L <your name> in the body of the mail)
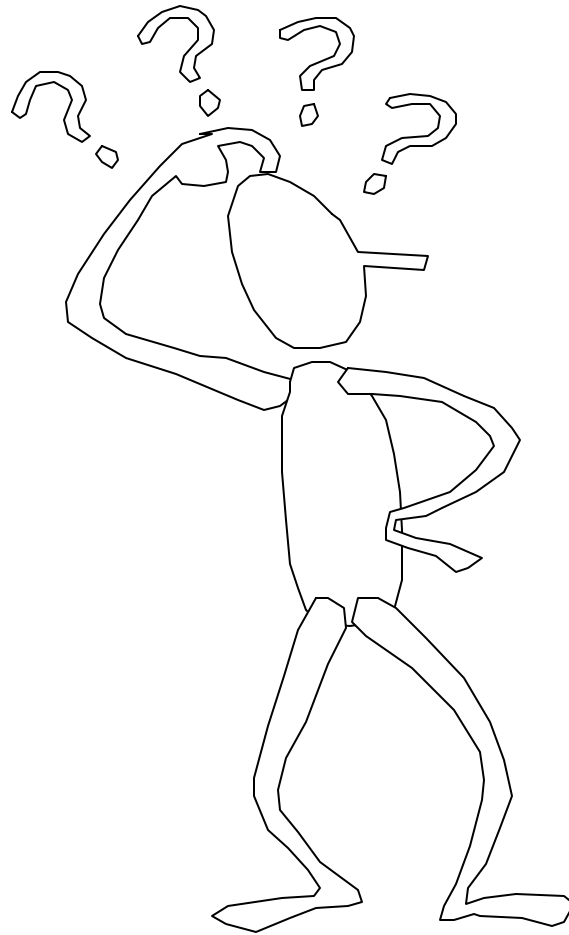
Congratulations! You're the New DBA. Don't Panic!

➢ In Summary:
- ☛ Learn the Environment
- ☛ Make and Test Backups regularly
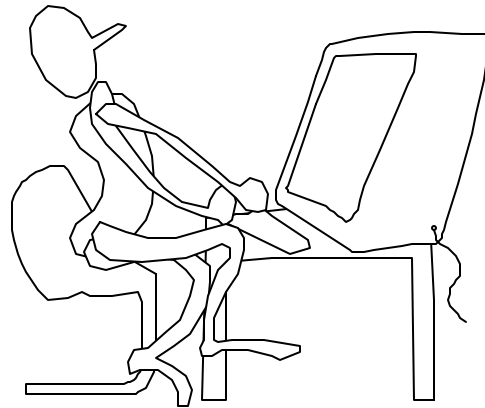- ☛ Manage User Expectations
- ☛ Monitor Everything
- ☛ Don't Panic!

Congratulations! You're the New DBA. Don't Panic!

Questions?

How to Contact Us:

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gloughmiller@yahoo.com