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## Overview

Database Administrators (DBAs) are responsible for the design, implementation, support and maintenance of computerized databases in today's organizations. The role also includes architecting, building and scaling databases for future data growth and capacity. They are also responsible for security, performance and availability of data to users and customers.

All the above tasks are performed with the help of a Database Management System (**DBMS**) and the leading and most widely used DBMS across the world today are the Oracle Database, Microsoft SQL Server, MySQL database etc. Out of the three DBMS technologies, **Oracle Database** is the most popular and widely used database in the world today.

DBAs play an important and responsible role in every company's Information Technology (IT) department. DBAs are also **very well paid** and the average annual salary is **more than \$100,000** in the USA.

Furthermore, it is projected that the **demand for DBAs** will grow at the rate of 29% per year until 2016. [www.cnn.com](http://www.cnn.com) also published an article recently that Database Administrators are in the **TOP TEN** in-demand jobs for the next decade.

The leading technology job portal in the United States – [www.dice.com](http://www.dice.com) reported in 2010 that DBAs stand 5<sup>th</sup> in the "Most Difficult to Fill" (**due to shortage of qualified DBAs**) IT job.

## About DBA University

DBA University, Inc. is a professionally run organization based in Chicago, USA that is dedicated to the training and placement of Oracle DBAs and Oracle Application DBAs using expert instructors and a world class computer LAB offered through **affordable prices**.

We are a DBA niche company and very dedicated and committed towards the success of our students. Our courses are **very hands-on** and aimed at **job placement** and preparing our students to face the real world with self-confidence and expert level technical skills in both Oracle DBA and Oracle Applications DBA areas.

Most of our courses are taught online and hence students all **over the world** are welcome to register for our courses. Registration for our upcoming courses can be done at <http://DBAuniversity.webex.com>

### About Srini Ramneni – Oracle DBA Instructor

The Oracle DBA training is provided by our **Chief Trainer** – Srini Ramneni (Srini).

Srini Ramneni is an accomplished and a very successful Oracle DBA and Oracle Applications DBA with almost 10 years of rich industry work experience. He is an ex Oracle Corporation employee and has been teaching Oracle DBA courses since 2004.

A person who has a good work experience need not be a good teacher and vice-versa. What makes Srini different from others is the way he teaches the Oracle DBA courses quoting real time problems he faced during his industry work experience and a practical way to resolve those problems. All the courses he teaches are bundled with lot of hands-on practice, challenging tests and above all, he makes his students fall in love with Database Administration.

He can be reached at [srini@DBAuniversity.com](mailto:srini@DBAuniversity.com).

In short, Srini is a "**results oriented**" training provider with the dual aim of providing a world class training experience and helping our students secure a well paying and stable job as an Oracle DBA.

### Eligibility

Anyone is eligible to register for the Oracle DBA course. But the below is our recommended target audience.

1. *Students and Professionals who already have prior exposure to Computer Science concepts and programming.*
2. *Students having a bachelor's degree or more in an Engineering/Computer Science/ IT discipline.*
3. *Students and Professionals who have at least an associate/diploma certificate in Computer Science/IT.*

4. Professionals who already have work experience in a Computer Science/ IT field and want to change their careers to become an Oracle Database Administrator.
5. Organizations who want to provide Oracle DBA training to their employees.

## Course Topics

### Introduction to database management systems and databases

What is a database?

Popular database management system (DBMS) software and why Oracle DBMS

History and Current trends of DBMS and Database Administration

Tasks of a Database Administrator

### Relational Database Model and Installing Oracle database software

Entity Relational (ER) Model Overview

Installation of Oracle database software (Oracle DBMS)

### Oracle Database Architecture

Creation of the first Oracle database.

Startup and Shutdown of a database

Components of an Oracle database and detailed architecture

Advance Startup and Shutdown Scenarios

### Database storage

Tablespaces and allocation types

Create tablespaces

Create datafiles with fixed size and autoextend option

Control files

How to rename datafiles in a controlfile

Redolog groups and members

Archivelog mode for a database

### Oracle Networking

Introduction

Oracle listener configuration

Oracle database connections from other computers

Oracle listener administration and TNS\_ADMIN environment variable

Database Links

### Used Managed (Manual) Backup and Recovery

- Introduction
- Cold Backup
- Database in ArchiveLog mode
- Hot Backup
- How to clone a database using Cold Backup
- How to clone a database using Hot Backup
- How to recreate source database from backups

### RMAN Backup and Recovery

- Differences between RMAN method and manual method
- Database backup using RMAN
- Database backup using RMAN's compression mode
- RMAN catalog
- Database backup using RMAN catalog
- Querying the RMAN metadata
- How to clone a database using RMAN duplicate
- Introduction and overview to Backups to Tape
- Flashback Database and Flash Recovery Area for better management of backups

### Database Objects

- Introduction
- Tables and Columns
- Indexes
- Packages, Stored procedures and Functions
- Database links
- Views and Synonyms
- Oracle Data Dictionary
- Popular Data Dictionary views and accessing them

### Oracle database upgrades

- Introduction to Oracle versions and how to understand a version
- How to upgrade from one version to another version
- How to upgrade from one patchset to another patchset within a release
- What are one-off patches
- What is OPatch utility

### Oracle Utilities

- Introduction
- SQL\*Plus
- Data Pump Export

Data Pump Import  
Introduction to Oracle SQL\* Loader

### User Management, Roles and Privileges

Introduction  
Create databases users  
User roles and privileges  
User profiles and tablespace quotas  
OS authentication vs database authentication

### Performance Tuning

Introduction  
How to handle performance issues in the real world  
V\$ views for performance monitoring and analysis  
How to size the Oracle database and memory for optimal performance  
Oracle database wait events  
Explain Oracle UNDO management internals and sizing.  
Explain Oracle TEMP space internals and sizing.  
SQL Query tracing using TKPROF  
Database wide tracing for Oracle Errors (Event Tracing)  
Index Monitoring and internals of index maintenance by Oracle  
Gather optimizer statistics using DBMS\_STATS

### Real world life of an Oracle DBA

Type of Oracle errors – Valid errors and internal exceptions  
Monitoring Oracle databases.  
How to work with Oracle Support to create Service Requests  
Jargon and terminology used by Oracle DBAs  
Working with Oracle Forums for issues.  
Documentation of work and Communication with peers and managers.  
Customer Satisfaction and working with database users.  
Obtain Oracle database documentation.  
Scheduling JOBS and scripts through UNIX/LINUX crontab utility

### Oracle ASM (Automatic Storage Management)

Introduction and benefits of ASM  
ASM Setup and Configuration  
Partitioning Disks in LINUX  
ASM Parameter file, ASM Instance and working with DISKGROUPS  
Querying ASM Information  
Creating Database Files using ASM

How to drop a database using drop database command.

### Oracle Database High Availability (RAC, DataGaurd)

Oracle Real Application Clusters (RAC)

Oracle DataGaurd (Physical Standby) Overview

### Unique Teaching Methodology

We use a **DIGITAL WHITE BOARD** for teaching our online courses. There will be **NO power point** slides. Teaching with a DIGITAL WHITE BOARD gives our students a traditional **classroom like experience**. The instructor writes and draws by free hand on the DIGITAL WHITE BOARD and all our students can see it in real time in the online classroom.

Please attend a FREE DEMO session at <http://DBAuniversity.webex.com>. We will give a DEMO on the DIGITAL WHITE BOARD, LAB access and all your questions will be answered.

### Course Duration and Timings

#### Weekdays (Mon TO Fri)

1. 60 hour training - 30 sessions with each session for 2 hours.
2. Monday to Friday - 7 pm to 9 pm CENTRAL TIME
3. All our Oracle DBA course registration information and schedule are displayed at <http://DBAuniversity.webex.com>
4. A total of 5 Homework assignments will be given for the students to challenge them on the various course topics. All the topics are very practical oriented so that students become hands-on and gain confidence in the course topics.

#### Weekends ONLY (Sat, Sun)

1. 60 hour training - 15 sessions with each session for 4 hours.
2. Saturday and Sunday ONLY
3. 5 pm to 9:30 pm CENTRAL TIME (with 30 MIN BREAK from 7 pm to 7:30 pm)

4. All our Oracle DBA course registration information and schedule are displayed at <http://DBAuniversity.webex.com>
5. A total of 5 Homework assignments will be given for the students to challenge them on the various course topics. All the topics are very practical oriented so that students become hands-on and gain confidence in the course topics.

### Pricing/Discounts

We offer world class Oracle DBA training at an affordable price of **\$850**. With \$850, you get approximately 60 hours of excellent quality instruction along with access to a state-of-the-art computer server for hands-on practice.

\$850 is already a hugely discounted price and hence we are unable to provide an additional discount.

### World Class Computer LAB

1. *We provide the REMOTE IP address to the student to get access to server.*
2. *The total no. of hours of LAB access is limited to approx. **160 hours per student**.(4 hours per day).*
3. *We provide **LINUX** as the operating system. All our courses are taught using the LINUX operating system.*

### Computer Server Configuration

- Memory - 7.5 GB
- Storage - 150GB
- Operating System - LINUX

### More Information

1. Please register online for the Oracle DBA course at <http://DBAuniversity.webex.com>

2. Please read our Frequently Asked Questions (FAQ) page at <http://www.DBAUniversity.com/faq.html> if you have more questions.
3. For any additional information email [info@DBAUniversity.com](mailto:info@DBAUniversity.com). To reach the course instructor directly, please email [srini@DBAUniversity.com](mailto:srini@DBAUniversity.com)