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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, Microsoft SQL Server, MySQL database etc.

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 20% per year until 2023. [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) often reports in its monthly job reports that DBAs are in the “Most Difficult to Fill” ([due to shortage of qualified DBAs](#)) IT job.

### About DBA University, Inc.

DBA University, Inc. is a professionally run organization based in Chicago, USA specializing in training and services in computer database administration and development. We are currently offering training in Oracle DBA, Oracle SQL & PL/SQL, SQL Server DBA, Big Data and AWS cloud computing using expert instructors and excellent REMOTE LAB access through **affordable prices**.

We are 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 Oracle DBA, Oracle SQL & PL/SQL, SQL Server DBA, Big Data and AWS cloud computing.

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 <https://www.DBAUniversity.com>

### About Srini Ramineni – Oracle DBA Instructor and Founder of DBA University



The Oracle DBA training is provided by Srini Ramineni (Srini).

Srini's video is at <http://video.dbauniversity.com/2dH69/dba-university-remote-dba-services/>

Srini Ramineni is also the founder of DBA University and a well experienced IT Professional with solid experience and knowledge in Oracle DBA, Oracle SQL and PL/SQL. He is an ex Oracle Corporation employee and has provides training in an interactive method with lots of LAB practice work in his classes.

A person who has a good work experience need not be a good teacher and vice-versa. What makes Srimi 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 [srimi@DBAuniversity.com](mailto:srimi@DBAuniversity.com)

In short, Srimi 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 If you are new to Oracle databases, we strongly recommend you to first complete our Oracle SQL Training course for \$499 at [https://dbauniversity.com/course/oracle\\_sql\\_training/](https://dbauniversity.com/course/oracle_sql_training/)

### Oracle Certified Professional (OCA, OCP) Certification

Students can use this training to prepare for the topics required to pass the [Oracle Database 12c Administration 1Z0-062 examination](#) and [oracle 1z0-082](#) examination towards Oracle OCA certification (Oracle Certified Associate). Additionally, students can also use this training to prepare for some topics required to pass the advanced 1Z0-063 and 1Z0-083 exams.

### Pricing and Registration

The course fee is **\$699 (all-inclusive price)**. We provide cloud-based access to our **38** video recordings for 12 months of on demand access on a 24\*7 basis and it also comes with our cloud lab access for 6 months (with an option to extend the lab access duration to 1 year). Students can connect to the lab using either a Windows PC or an Apple MAC computer using the Remote Desktop Connection program. So, it is very easy to connect to the lab server.

**Even though it is an on-demand course based on video recordings, it still provides you a real classroom like experience because the videos are developed using a White Board. This is a very lengthy and comprehensive database administration course.**

a) 38 video recordings.

- b) Access for 12 months on a 24\*7 basis.
- c) Each video is about 1 hour to 1.5 hours approximately.
- d) Remote Desktop Connection for 6 months. (with an option to extend the access time to 1 year)
- e) Training materials through Dropbox email download.
- f) The training fee is **\$699 (all-inclusive price)**

Please purchase online at [https://dbauniversity.com/course/oracle\\_dba\\_training/](https://dbauniversity.com/course/oracle_dba_training/)

*We accept online DEBIT CARD, CREDIT CARD or PayPal.*

### Cloud based remote LAB Access

- We provide a dedicated Remote Desktop Connection to each student to access our lab servers.
- Students can connect from either a Windows or MAC computer with an internet connection.
- We provide LINUX 64-bit server as the operating system for the lab practical exercises.

### 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.

Oracle database market share and about its current competitive landscape.

Tasks of a Database Administrator.

#### Installing Oracle database software (12c R1 and 12c R2)

Understand prerequisites for a successful Oracle RDBMS software installation.

Installation of Oracle 12c R1 database software with the latest patchset.

Installation of Oracle 12c R2 database software

#### Oracle Database Architecture



Planning for an Oracle database creation.

Creating an Oracle 12c R1 database using the CREATE DATABASE SQL command.

Creating an Oracle 12c R2 database using the Graphical Tool (Database Configuration Assistant).

How to configure and use Oracle Enterprise Manager (OEM) Database Express web based tool.

Understand initialization parameter files

Startup and Shutdown of a database.

View the database alert log

Components of an Oracle database and detailed architecture.

Advance Startup and Shutdown scenarios.

Oracle database memory and process architecture.

The Oracle database job scheduler API (DBMS\_SCHEDULER package)

### Database storage

Oracle tablespaces and allocation types.

How to create small file (default) and big file tablespaces.

How to create datafiles with fixed size and auto extend option.

What are control files and how to view control file content in a trace file.

How to rename datafiles in a control file.

Temporary tablespaces and temporary tablespace groups.

Managing Undo Data

*Explain DML and undo data generation*

*How to add data files to undo tablespaces.*

*Configure undo retention.*

*Understand Oracle database read consistency*

### Oracle Networking

Introduction to Oracle Net Services component.

Oracle listener configuration (Dynamic and Static Listeners).

Dynamic Service Registration and Naming Methods configuration in sqlnet.ora.

Oracle database connections from other computers.

Oracle netca (Network Configuration Assistant) tool for configuration file generation.

Oracle netmgr tool for adding database services to a static listener.ora configuration file.

Oracle listener administration and TNS\_ADMIN environment variable.

What are database links and learn about best practices in creating them.

### Administering User Security

Create and manage database user accounts.

Grant and revoke privileges.

Create and manage roles.

Create and manage profiles.

Standard database auditing

*How to audit DBA login sessions and statements*

*How to enable non-DBA login session auditing.*

*How to disable non-DBA login session auditing*

*How to purge older audit trail records.*

### Used Managed (Manual) Backup and Recovery

Backup and Recovery Concepts (Redo log files and archive log files.)

Backup and Recovery Configuration (Configure the fast recovery area and ARCHIVELOG mode.)

Introduction and planning for a robust Backup and Recovery Strategy.

How to create a consistent database backup aka offline backup (COLD BACKUP)

Hot to create an inconsistent database backup aka online backup (HOT BACKUP).

How to clone a database from a consistent database backup.

How to clone a database using Cancel based recovery from an inconsistent database backup.

How to clone a database using Time based recovery (Database point in time recovery) from an inconsistent database backup.

## RMAN Backup and Recovery

Advantages of RMAN method compared to the user-managed method.

Create consistent database backups using RMAN.

Create inconsistent database backups (without shutting it down) using RMAN.

Oracle database backup metadata.

How to create incremental backups using RMAN.

How to clone a database using RMAN backup based duplication.

How to restore and recover a full database from its RMAN backup.

Use Data Recovery Advisor to perform recovery of the control file and redo log file.

How to drop a database using RMAN

Oracle database backup retention policies and backups to Tape/offsite.

How to purge old backups using RMAN.

## Oracle database upgrades

Introduction to Oracle versions and how to understand a version.

How to upgrade a database from Oracle 12c R1 to Oracle 12c R2.

How to upgrade from one patchset to another patchset within the same maintenance release.

What are Oracle interim patches

How to apply SPU patches (Security Patch Updates).

How to apply a Patch Set Update (PSU)

Learn about Oracle Interim Patch Installer (OPATCH).

### Oracle Data Movement Utilities

Oracle database logical backup and restore operations (Data Pump Export and Import).

Business use cases of logical backups compared to physical backups.

Various Data Pump Export modes.

Data Pump Import to import data from an export backup.

Advanced features in Oracle Data Pump Export.

### Oracle Database Performance Tuning

How to handle performance issues in the real world.

V\$ dynamic views for performance monitoring and analysis.

How to size the Oracle database memory structures for optimal performance.

Oracle database wait events.

Explain Oracle temporary space internals and sizing.

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How to generate on-error diagnostic dump files.

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Parlance and terminology used by Oracle DBAs.

Working with Oracle Forums for issues.

Productivity tools required when you join the work place.

Scheduling JOBS and scripts through UNIX/LINUX crontab utility.

### Oracle DBAAS (Database as a Service)

Sign-up in <https://cloud.oracle.com>

Difference between a DBAAS instance and a database instance.

Navigate with My Services Dashboard

User authentication and roles

Generate a Secure Shell (SSH) Public/Private Key Pair

### Oracle 12c ASM (Automatic Storage Management)

For Oracle RAC, ASM and Data Guard we have a separate course conducted by Srinu Ramineni. Please purchase it at [https://dbauniversity.com/course/oracle\\_rac\\_asm\\_dg\\_training/](https://dbauniversity.com/course/oracle_rac_asm_dg_training/) for \$399.

### Oracle 12c Database High Availability (RAC, DataGuard)

For Oracle RAC, ASM and Data Guard we have a separate course conducted by Srinu Ramineni. Please purchase it at [https://dbauniversity.com/course/oracle\\_rac\\_asm\\_dg\\_training/](https://dbauniversity.com/course/oracle_rac_asm_dg_training/) for \$399.

## Unique Teaching Methodology

We use a **DIGITAL WHITE BOARD** for teaching our online courses. 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.

## More Information

1. Register for Oracle DBA training at [https://dbauniversity.com/course/oracle\\_dba\\_training/](https://dbauniversity.com/course/oracle_dba_training/)
2. For additional information, please email [srini@DBAUniversity.com](mailto:srini@DBAUniversity.com)