

# Oracle Database Administration

*Nourah albanamy*

# course objective

After completing this course you should be know:

- What is the oracle.
- architecture and administration.
- install, create an Oracle DB.
- Administration and Monitoring the Database.

# DBA Course Info

## ■ Reference books

- ❑ Oracle Database 11g DBA Handbook
- ❑ Beginning Oracle Database 11g Administration: From Novice to Professional

## ■ DBA grades

- ❑ Evaluation 10%
- ❑ Quiz 5%

# Outline

- What is oracle ?
- Learn about Database administration
  - Database administration
  - Database administrator tasks.
- Identify the main DBA tools in the Oracle10g software suite

# What is oracle database?

- An Oracle database is a collection of data treated as a unit. The purpose of a database is to store and retrieve related information. A database server is the key to solving the problems of information management. In general, a server reliably manages a large amount of data in a multiuser environment so that many users can concurrently access the same data. All this is accomplished while delivering high performance. A database server also prevents unauthorized access and provides efficient solutions for failure recovery.

# What is oracle database?

- The database has:
  - logical structures.
  - physical structures.



# Database Administration



# Database Administration

- Database Administration: A technical function that is responsible for physical database **design** and for dealing with technical issues such as **security** enforcement, database **performance**, and **backup** and **recovery**





# DBA

- A database administrator (DBA) is a person responsible for the **design**, **implementation**, **maintenance** and **repair** of an organization's database.



# DBA tasks

- Manage database availability.
- Plan and create databases.
- Manage physical structures.
- Manage storage based on design.
- Manage security.





DBA tools in the Oracle10g



# Oracle10g

- The Oracle10g RDBMS (relational database management system) software suite includes everything you need to build/maintain a relational DB.

# Database Management System

- is a set of programs that enables storing, modifying, and extracting information from a database, it also provides users with tools to add, delete, access, modify, and analyze data stored in one location. A group can access the data by using query and reporting tools that are part of the DBMS or by using application programs specifically written to access the data.

# DBA tools in the Oracle10g

- ORACLE UNIVERSAL INSTALLER (OUI) .
- ORACLE DATABASE CONFIGURATION ASSISTANT .
- SQL(structure query language) PLUS .
- PASSWORD FILE UTILITY
- ORACLE ENTERPRISE MANAGER (OEM) .



# References

- [http://en.wikipedia.org/wiki/Database\\_administrator](http://en.wikipedia.org/wiki/Database_administrator)
- <http://www.acs.org.au/ictcareers/index.cfm?action=show&conID=200707200948211895>
- Oracle 10g Database Administrator: Implementation and Administration
- Modern Database Management
- Database Administration
- A Guide to Oracle 9i
- Database Users & Administration
- Oracle 11g Student Guide