

SESSION 1: RDBMS BASICS AND INSTANCE ARCHITECTURE

- Writing Basic SQL SELECT Statements
- Using SQL for DBA management
- Instance vs. database
- Parameter files (init.ora, listener.ora, tnsnames.ora)
- Initialization file management
- Components of an instance (SGA vs. PGA)
- Background processes
- Interfaces with server and disk I/O subsystem
- Control file, UNDO and REDO management

SESSION 2: SCHEMA, FILE & TABLESPACE MANAGEMENT

- Describing the relationship between data files, tablespaces and table
- Understanding Oracle segments
- Creating Tablespaces – using the autoextend option
- Changing the Size of Tablespaces – alter database datafile command
- Defining a TEMP tablespace
- Changing the default storage Settings for a tablespace
- Review of the storage parameters in DBA views (ASM, ASSM, pctfree, pctused and freelists).

SESSION 3: INTRODUCTION TO BIG DATA

- Problems with existing traditional systems
- Requirements for new approach
- Distributed Systems and Hadoop
- Comparing SQL Databases and hadoop
- What are the challenges for processing big data?
- What technologies support big data?
- RDBMS vs Hadoop
- When to use and when not to use Hadoop
- Vendor comparison

SESSION 4: HADOOP BASIC CONCEPTS

- What is Hadoop
- Why Hadoop
- History of Hadoop
- Use Cases of Hadoop
- Hadoop eco system
- HDFS
- Map Reduce

SESSION 5: HADOOP DISTRIBUTED FILE SYSTEM

- HDFS Architecture (Name Nodes/Data Nodes /Secondary Name Node)

SESSION 6: QUERY AND DOUBT CLEARANCE SESSION

- Q & A Session
- Students Doubt Clearance Session
- Awards & Certificates of honour to Winners.
- Certificates of Appreciation to Selected Participants.
- Certificates of Participation to all Particip