CONTENTS FOR THE 2-DAYS WORKSHOP ON

BIG DATA HADOOP

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: <u>QUERY AND DOUBT CLEARANCE SESSION</u>
- ➢ Q & A Session
- ➢ Students Doubt Clearance Session
- ➢ Awards & Certificates of honour to Winners.
- ➢ Certificates of Appreciation to Selected Participants.
- ➢ Certificates of Participation to all Participants