



Practical List: 01	Enrollment No.:	Name:
Problem Definition		
<p>✚ Start the Oracle Instance in command and perform the following task to...</p> <ol style="list-style-type: none">1. Check the version of Oracle.2. View the current instance name and status of the database instance.3. Shutdown the oracle instance normally.<ul style="list-style-type: none">▪ Create the following table: tblStudent(enro[PK], name, city) [If it's showing error, then move to the next task.]4. Start the instance, mount database and open it for database activities.<ul style="list-style-type: none">▪ Now, create the following table: tblStudent(enro[PK], name, city)▪ Start the instance and mount the database, but leave it closed. [If it's showing error, then move to the next task.]5. Shutdown the oracle instance quickly, urgently.<ul style="list-style-type: none">▪ Now, again try to start the instance and mount the database, but leave it closed.▪ Insert five records in the following created table: tblStudent(enro[PK], name, city) [If it's showing error, then... shutdown the oracle instance normally and again starts the instance, mount database and open it for database activities; and then insert records and view your records.]▪ Now, again shutdown the oracle instance normally. [If it's showing error, then move to the next task.]▪ Try, to shutdown the oracle instance quickly, urgently. [If it's showing error, then move to the next task.]6. Shutdown the oracle instance without committing any ongoing transaction.<ul style="list-style-type: none">▪ Now, again starts the instance, mount database and open it for database activities; and view your inserted records. [If your records are lost, then again insert records and view your inserted records.]7. Save your current transaction permanently.<ul style="list-style-type: none">▪ Now, again shutdown the oracle instance normally or shutdown the oracle instance quickly, urgently. [If it's got shutdown, then again starts the instance, mount database and open it for database activities; and view your inserted records.]8. Start the instance and mount the database, but leave it closed.<ul style="list-style-type: none">▪ Now, again view the current instance name and status of the database instance.9. Open database in read-only mode. (It is valid with startup mount clause; so, after the previous task, perform this task.)		



- Insert one record in the created table.
[If it's showing error, then move to the next task.]
 - Update the city of one of the records.
[If it's showing error, then move to the next task.]
 - View your records.
10. Starts the instance and open it for database activities, without using "startup open" command.
 - Again, view the current instance name and status of the database instance.
 11. Check various memory parameters
 12. Check SGA size
 13. Check PGA size
 14. Check to analyze the various components of SGA:
 - a. For buffer cache
 - b. For java pool
 - c. For shared pool
 - d. For large pool
 15. Check all the target parameter values.
 16. Exit from database without shutting down the oracle instance.
 17. Exit from instance.
 18. Exit from SQL.

Objective(s)	To be aware of various Oracle Database Startup & Shutdown options and to analyze various memory structures of Oracle Instance and its components.
Pre-requisites	Database Management Systems, Relational Database Management Systems
Duration for Completion	2 Hours
PEO(s) to be achieved	To provide quality practical skill of tools and technologies to solve industry problems.
PO(s) to be achieved	Ability to use the techniques, skills and modern tools as necessary for software development.
CO(s) to be achieved	CO1: Understand database architecture and analyse the process of server, instances and storage structure. CO2: Manage database storage and concurrency.
Solution must contain	Command and Output Screen Shot(s)
Nature of submission	Handwritten using pen on One side ruled/One side plain papers.
References for solving the problem	--



Post Laboratory questions	<ol style="list-style-type: none">1. State the usage of following command: CONNECT sys/password AS SYSDBA;2. Who is responsible for configuring, monitoring and tuning database performance?3. Who decides on which server hardware the database software will run?4. Which component of Oracle server architecture communicates with user process?5. Which component of Oracle server architecture interact with an Oracle instance to fulfil user's request?6. Which term is used to refer the logical memory structures in oracle server architecture?7. Which term is used to refer the physical file structures in oracle server architecture?8. Write the three main files of oracle physical storage.
Assessment	
Faculty Signature with Date	