

PRACTICAL ASSIGNMENT- ORACLE DATABASE ADMINISTRATION & SECURITY

Instructions

- I. The CAT constitutes of PART I and PART II. Both must be attempted.
- II. Each Group to constitute **STRICTLY not more than Five (5) members**, nominating a Team Leader
- III. Team Leader to co-ordinate the group exercise but all group members must be tasked.
- IV. The screen shots (for all results and SQL statements used) plus all answers must be saved as a pdf document and **PRINTED** by the Team leader Tuesday 23rd May 2023 during class times (CT/CN 11:00AM) & IT 1pm)
- V. Note only **ONE PRINTED copy per group** indicate all the team members in the pdf document
- VI. Combine PART I and PART II as one file above.
- VII. There will be a demon on for the exercise immediately after submission and each member will have to demonstrate.

PART A (30 Marks)

- 1 a) What is the Oracle Database 11g Express edition default folder during installation and can this be changed? (3 Marks)
- b) What are the default passwords for users SYS and SYSTEM? (2 Marks)
- b) The required disk space for Oracle Database 11g Express edition is? (2 Marks)
- c) What is the meaning of the terms 'Oracle Home' and 'Oracle Base'? What are default directories in express edition installation? (4 Marks)
- d) List names and port numbers of three (3) important services during express edition installation? (6 Marks)
- e) Provide the four (4) limitations subjected to the use of the oracle 11g database express edition (4 Marks)
- f) List the database name, ID, License and version (4 Marks)
- g) List any ten (10) Privileges that can be assigned to a user in a database (5 Marks)

PART B (55 Marks)

2 Create the following user's and grant them appropriate rights.

- i. Finance (2 Marks)
- ii. Procurement (2 Marks)
- iii. HR (2 Marks)
- iv. ICT (2 Marks)

3 a) Operating under user ICT design and create the following tables. (4 Marks)

Employees (Number, Names, Professional Code, Employment date, Employment Status)

Professions (Code, Description)

Rules;

- i) Ensure that professional codes must exist in profession before using them in employees table (3 Marks)
- ii) Ensure that the key in employees table is the employee Number (3 Marks)
- iii) Ensure that status is either Active or Inactive (3 Marks)
- b) Populate the above tables with at least 10 records each? (5 Marks)
- c) Create an index on the table employees and indicate location of indexes in the DB? (4 Marks)
- d) In which database object are above constraints stored? (3 Marks)
- e) List all the tablespaces and data files in the database (3 Marks)
- f) Lock and unlock the user ICT in the database (3 Marks)
- g) List all the users existing in the database (2 Marks)
- h) Perform a database backup and provide the physical location of resulting back file? (5 Marks)
- i) Drop the user ICT, Finance and Procurement from the database (4 Marks)
- j) Restore the backup created in f) above (3 Marks)
- k) List all the users existing in the database after database restores (2 Marks)