



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
FACULTY OF SCIENCES
COMPUTER SCIENCE DEPARTMENT
2021_2 EXAMINATIONS

DAM401: ORACLE DATABASE

Credit: 2 units

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer Question ONE (1) and any other THREE (3) Questions

- 1a) Define DML (2 marks) Give 5 examples of DML commands (2 ½ marks)
- 1b) Discuss the various data dictionary views you are familiar with (9 marks)
- 1c) Write short notes on the following objects: i. User-defined data type ii. Index iii. Cluster (9 marks)
- 1d) What is deadlock? Explain how Oracle handles deadlock situations (2 ½ marks)
- 2a) Complete the following table (6 marks)

Lock	Description
DML locks (data locks)	
DDL locks (dictionary locks)	
Internal locks and latches	

- 2b) Discuss the operations of Share Row Exclusive Table Locks (SRX) (9 marks)
- 3a) Produce the SQL commands that accomplish the following tasks:
- Completely remove a table named tbl (2 marks)
 - Change the structure of a table named tbl by adding a column named col2 (2 marks)
 - Amend the content of table tbl by changing a record with ID=123. Set a new value of field fld as fld*2 (2 marks)
 - Query table tbl for records with field values fld> 10 (2 marks)
 - Create a view named vw1 from record of a table tbl with field fld =20 (2 marks)
 - Display all the content of table tbl (2 marks)
- 3b) Outline any six (6) data types supported by Oracle database (3 marks)

4a) Explain the task performed by each of the following SQL codes:

- i. DELETE FROM emp WHERE empno=0001; (2 marks)
- ii. INSERT INTO customers VALUES(1,'John'); (2 marks)
- iii. DELETE FROM emp WHERE last_name='Don'; (2 marks)
- iv. SELECT first_name,last_name FROM emp(2 marks)

4b) Explain the file formats/types generated by Data Pumps (7 marks)

5a) Discuss how SQL Loader can be used to upload data into Oracle databases (8 marks)

5b) Explain the following PL/SQL code:

```
1 CREATE PACKAGE numb  
2 AS  
3 FUNCTION odd_even(v1 NUMBER) RETURN VARCHAR2;  
4 PROCEDURE ins_ints(v1 in NUMBER);  
5 END numb;  
6/
```

(7 marks)