

BINGHAM UNIVERSITY, KARU
DEPARTMENT OF COMPUTER SCIENCE
2021/2022 FIRST SEMESTER EXAMINATION

COURSE CODE: CMP 327

COURSE TITLE: DATA MANAGEMENT

LEVEL: 300 LEVEL

INSTRUCTION: ATTEMPT ALL QUESTIONS IN SECTION A AND ANY OTHER IN SECTION B

DURATION: 3 HOURS

SECTION A (22 Marks, 1 mark each)

1. A Comprehensive collection of records organized for easy access is known as a Database
2. The DBA attempted to remove user goodness from the database by executing Drop user goodness; Failed, user error and system failure could be responsible for this Failure.
Write down the SQL command for performing the Following database operations.
3. Remove a user from a database DELETE FROM user WHERE user_id = 1;
4. Remove a record from a database table in database DELETE FROM users WHERE name = 'sharon';
5. Add a new record to a table in a database INSERT INTO users (name, age) VALUES ('caleb', 15)
6. Make a database operation permanent COMMIT;
7. Modify record UPDATE users SET age = 16 WHERE name = 'sharon';
8. Modify a table structure ALTER TABLE users ADD height INTEGER;
9. Modify the database structure DROP TABLE users;
10. Undo a database transaction ROLLBACK;
11. Creating and managing database users is a primary responsibility of the DBA in an Organization.
12. DBA is responsible for establishing procedure for backup and recovery of data in a database environment.
13. tables, views, indexes are example of database objects.
14. CREATE, ADD and RENAME are examples of data Definition Language.
15. DBMS is software that allows creation, definition manipulation of database allowing users to store, process and analyze data easily.

16. Database Model is a type of data model that determines the logical structure of a database and fundamentally determines in which manner data can be stored, organized and manipulated.
17. In a database, something about which record is kept is generally referred to as an entity

Study the table below and use it to answer Question 18 and 19. The table is called tblcontact

| BRANCHES | STREET | CITY | POST CODE |
|----------|-----------------|---------|-----------|
| B005 | 22 Dear Rd | London | SW14EH |
| B007 | 16 Argll Street | Ahadeen | ABZ384 |
| B003 | 163 Main Street | Glasgow | G11 9QX |
| B004 | 32 Manse Road | Aristal | BS99 1NZ |
| B002 | 56 cover Rd | London | NN106CN |

18. The cardinality of the relation is 5 (amount of rows/tuples)
19. The degree is 4 (amount of columns/attributes)
20. The process of monitoring and recording selected database user's activity is known as database auditing or database activity monitoring
21. Manipulating people into releasing confidential information is called Social Engineering
22. Mrs. Badmos Manipulated a record in a database table to perpetrate a fraud. The DBA traced the act to her. What feature of the DBMS enabled the DBA to discover the culprit? database auditing and logging

BINGHAM UNIVERSITY
FACULTY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE
FIRST SEMESTER EXAMINATION, 2019/2020 SESSION

COURSE TITLE: DATABASE MANAGEMENT

COURSE CODE: CMP 327 COURSE CREDIT UNITS: 3

TIME ALLOWED: 2HRS

Section 1 (Answer all questions)

1. a. What is database management?
b. Mention three (3) types of SQL commands with two (2) examples each.
c. List 5 problems of traditional file system.
d. Write an SQL statement to create a table "students" with the following fields:
 - i. student_id
 - ii. full_name
 - iii. matric_no
 - iv. department
 - v. faculty
 - vi. level

NB: specify the data types.

Section B (Answer any 2 questions)

2. List and explain 5 reasons why we need a database
3. a. What is the difference between a database and a database management system (DBMS).
b. What is a Relational Database Management System (DBMS)?
4. List and explain four (4) types of database relationships.