

# FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY DEPARTMENT OF INFORMATION & MEDIA TECHNOLOGY

SECOND SEMESTER 2014/2015 EXAMINATION

CIT 324

21/2 Hours

3

COURSE CODE:

COURSE TITLE:

CREDIT UNITS:

TIME ALLOWED:

COURSE LECTURER(S):I. O. ALABINUMBER OF QUESTIONS:3NUMBER OF PAGES:3 (INCLUDIN)

3 (INCLUDING THIS PAGE)

STRUCTURED QUERY LANGUAGE

### INSTRUCTIONS

- Answer all questions
- Do not use red pen
- Please use a clear handwriting
- · This exam is closed book, closed notes, closed laptop and closed cell phone
- Please use non-programmable calculators only

- 1. a. Explain the three methods of populating database tables. (5 marks)
  - b) Consider the database which consists of the three tables below and write the following SQL statements:
    - i) Retrieve the age of the youngest sailor.
    - ii) Retrieve the names of Sailors who reserved a boat on the following days:

10/10/2008, 10/11/2008, 12/11/2008.

- iii) Retrieve the names of Sailors who have reserved a Blue boat.
- iv) Re-assign all the reservations made by the sailor with Sid 22 to the sailor with Sid 29.
- v) Delete the sailor named 'David'. (3 marks each)

Sid	Sname	Rating	Age	
22	David	7	45	11
29	Bala	1	33	
31	Lukman	8	55	120
32	Andy	8	25	
58	Richard	10	35	14
64	Harold	7	35	
71	Zubair	10	16	1
74	Helen	9	35	
85	Ali	3	25	
95	Bob	3	63	

servations Table

		neservations rable			
Age		Sid	Bid	Day	
45	1.1	22	101	10/10/2008	
33		22	102	10/10/2008	
55		22	103	8/10/2008	
25		22	104	7/10/2008	
35	16.3	31	102	10/11/2008	
35		31	103	6/11/2008	
16		31	104	12/11/2008	
35		64	101	5/9/2008	
25		64	102	8/9/2008	
63	11	64	103	8/9/2008	

#### Boats Table

Bid	Bname 🖘	Colour
101	Interlake	Blue
102	Interlake	Red
103	Clipper	Green
104	Marine	Red

- 2. a. What are the three classes of SQL statements. (5 marks)
  - b. Explain the function of the following SQL statements:
    - SELECT \* FROM student WHERE matric\_no = 41709;
    - CREATE TABLE courses (C\_code VARCHAR(6), c\_title VARCHAR(20), c\_unit number(1), c\_semester) FOREIGN KEY (C\_code) REFERENCES student;
    - iii) INSERT INTO courses VALUES ('CIT324', 'SQL',3, 'Alabi',NULL);
    - iv) USE sict;

# $(\bigcirc)$

## v) SELECT DATABASE(); (3 marks each)

- 3. a. Describe the function of the two transaction processing statements that can ensure the consistent state of a database. (5 marks)
  - b. Define the following terms:

i. Priviledges

ii. Roles

iii. GRANT and REVOKE

iv. Deadlock

v. Locks (3 marks each)