SECOND SEMESTER 2017/2018 EXAMINATION

COURSE CODE: CIT 324

COURSE TITLE: STRUCTURED QUERY LANGUAGE

CREDIT UNITS: 3

TIME ALLOWED: 2½ Hours

COURSE LECTURER(S): I. O. ALABI & Y. M. SANI

NUMBER OF QUESTIONS: 4

NUMBER OF PAGES: 3 (INCLUDING THIS PAGE)

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

Question 1:

Consider the FUTMINNA Students database which consists of the three (3) tables below and write the following SQL statements:

i.   Retrieve the Sid, Sname, Level and Age of the youngest Student.

ii.   Retrieve the names of Students who made reservations on the following days:

         10/9/2018, 8/9/2018 and 8/7/2018.

iii.   Retrieve the names of Students who have reserved a Blue Accommodation.

iv.   Delete the student named 'Helen Zakari'   **(3 marks each)**

v.   Cross join Sid, Bid and Reservations Day from Students and Reservations Table

Students Table

Sid	Sname	Level	Age
22	DavidTheophilus	300	24
29	Mama Bala	500	23
31	Lukman Musa	100	21
32	Andy Murray	400	25
58	Richard James	200	19
64	HaroldGarba	300	20
71	ZubairShehu	500	23
74	HelenZakari	100	20
85	AliBaba	200	25
95	Bob Marley	400	23

Reservations Table

Sid	Bid	Day
22	101	10/9/2018
22	102	10/9/2018
22	103	8/9/2018
22	104	7/9/2018
31	102	10/8/2018
31	103	6/8/2018
31	104	12/7/2018
64	101	5/7/2018
64	102	8/7/2018
64	103	8/7/2018

Accommodation Table

Bid	Bname	Colour
101	Sharaton	Blue
102	Nicon	Red
103	White Gate	Green
104	Hydro	Red

Question 2:

a. What are the three classes of SQL statements?   **(6 marks)**

b.

ProductionID	Quantity
11000	25
11000	30
11000	30
11001	60
11001	25
11001	25
11001	6
11002	56
11002	15

From the aboveProduction table. write an aggregate query for both MAXIMUM and MINIMUM function WHERE ProductionIDis BETWEEN 11000 AND 11002 and output the result?   (9 marks)

Question 3:

a.   List Six (6) advantages of SQL?   (6 marks)
b.   Explain the following SQL statements:
i.   SELECT * FROM Lecturers WHEREStaff_no = 70589;
ii. INSERT INTO courses VALUES ('CIT324','SQL',3,'Yahaya', NOT NULL);
iii. USE SICT;   (3 marks each)

Question 4:

a.   Explain the following concepts:
   i.   Union join
   ii.   Nested Subquery
   iii. Update Command
   iv.   Function
   v.   Stored Procedure   (2 marks each)
b.   Write a query against the Northwind database that returns one column called "SupplierName" and contains the name of the supplier of the product called Chai? (5 marks)